	Question Bank of	A
	Mathematical FoundationCA-1.4(254104)	N S
1)	An ordered collection of objects are called A.Relation B.Set C.Function D.Proposition	В
2)	A set is collection of ordered A. Elements B. Numbers C. Objects D. All of the above	D
3)	The set 'A' of odd positive numbers less than 10 can show by A.{1, 2, 3} B.{1, 5, 7, 9, 11} C.{1, 2, 5, 9} D.{1, 3, 5, 7, 9}	D
4)	What is the Cartesian product of A = {1, 2} and B = {a, c}? A.{(1, a), (1, c), (2, a), (d, c)} B.{(1, 1), (2, 2), (a, a), (d, d)} C.{(1, a), (2, a), (1, c), (2, d)} D.{(1, 1), (a, a), (2, a), (1, c)}	A
5)	The Cartesian Product B x A is equal to the Cartesian product A x B. A.True B.False	В
6)	What is the cardinality of the set of odd positive integers less than 10? A. 10 B. 5 C. 3 D. 20	В

7)	Which of the following two sets are equal?	C
	A. $A = \{1, 2\}$ and $B = \{1\}$	
	B. $A = \{1, 2\}$ and $B = \{1, 2, 3\}$	
	C. $A = \{1, 2, 3\}$ and $B = \{2, 1, 3\}$ D. $A = \{1, 2, 4\}$ and $B = \{1, 2, 3\}$	
	2. 1. (1, 2, 1) and 2 (1, 2, 0)	
8)	The set {0, 1, 2} having Cardinality of the Power set?	C
	A.7	
	B.6	
	C.8	
	D.9	
9)	The members of the set $S = \{x \mid x \text{ is the cube of an integer and } x < 10\}$ is	С
	A. 1810 B. 149	
	C. 18	
10)	D. None of the above	-
10)	The members of the set $S = \{x \mid x \text{ is the square of an integer and } x < 100\}$ is	В
	A.{0, 2, 4, 5, 9, 58, 49, 56, 99, 12}	
	B.{0, 1, 4, 9, 16, 25, 36, 49, 64, 81}	
	C.{1, 4, 9, 16, 25, 36, 64, 81, 85, 99}	
	D.{0, 1, 4, 9, 16, 25, 36, 49, 64, 121}	
11)	The union of the sets {11, 12, 15} and {11, 12, 16} is the set	В
	A.{11, 12, 16,}	
	B.{11, 12, 15, 16} C.{11, 12, 11}	
	D.{11, 15, 16, 13}	
12)	The intersection of the sets {1, 2, 5,6} and {2,3,4,5 6} is the set	C
	A.{1, 2, 4}	
	B.{3, 5, 6}	
	C.{2, 5, 6}	
	D.{1,2,3,4,5, 6}	
	1	ш

13)	Two sets are called disjoint if there is the empty set. A.Union B.Difference C.Intersection D.Complement	C
14)	The difference of the B-A, where A= {1, 2, 3, 4} and B= {1, 2, 4, 5} is? A.{1} B.{5} C.{3} D.{2}	В
15)	What is complement of the set A A.A – B B.U – A C.A – U D.B – A	C
16)	Which is the symbol for null set ? A. Σ B. μ C. \wedge D. ϕ	D
ŕ	Let Ai = {i, i+1, i+2,}. Then set {n, n+1, n+2, n+3,} is the of the set Ai. A.Union B.Intersection C.Set Difference D.Disjoint	В
18)	In this diagram A and B are A. Equal sets B. Overlapping sets C. Disjoint sets D. None	C

19)	In this diagram A and B are	D
	A B	
	A. Equal sets B. Disjoint sets C. Both A & B D. None	
20)	Complement of a set B in denoted by A. B' B. B° C. {B} D. B²	A
21)	What is the set difference of set A with null set is A.A B.null C.U D.B	A
22)	Let the set A is {1, 2, 3} and B is {2, 3, 4,8}. Then the total number of elements in (A U B) is? A.4 B.5 C.6 D.7	В
23)	Let the set A is $\{1, 2\}$ and B is $\{2, 3, 5\}$. Then the total number of elements in $(A \cap B)$ is? A.1 B.2 C.3 D.4	A
24)	Let A be set of all prime numbers, B be the set of all even prime numbers, C be the set of all odd prime numbers, then which of the following is true? A.A \equiv B U C B.B is a singleton set. C.A \equiv C U {2} D.All of the mentioned	D

25)	If A has 3 elements B has 7 elements then the minimum and maximum number of elements in A U B are A.3, 7 B.7, 10 C.3, 10 D.None of the mentioned	В
26)	Two sets A and B contains 'a' and 'b' elements respectively. If power set of A contains 16 more elements than that of B, value of 'b' and 'a' areA.4, 5 B.6, 7 C.2, 3 D.None of the mentioned	A
27)	Let A be {11, 22, 23, 44}, U be set of all natural numbers, then U-A'(complement of A.is given by set.	C
	A.{11,22,33, 44, 55, 66,}	
	B.{55, 66, 77, 88, 99,}	
	C.{11, 22, 33, 44 }	
	D.All of the mentioned	
	Answer: c	
28)	Which sets are not empty?	D
	A.{x: x is a even prime greater than 3}	
	B.{x : x is a multiple of 2 and is odd}	
	C.{x: x is an even number and x+3 is even}	
	D.{ x: x is a prime number less than 5 and is odd}	
29)	In a disjunction, even if one of the statements is false, the whole disjunction is still A. False B. Negated C. True D. Both true and false	C

30)	Consider the statement form $p \Rightarrow q$ where $p =$ "If Ram is Puja's father then Puja isniece" and $q =$ "Shyam is Ram's brother." Which of the following statements is equivalent to thi statement?		
	A.If Shyam is Ram's Brother, then Ram is Puja's father and Puja is not Shyam'sniece.		
	B. If Shyam is not Ram's Brother, then Ram is Puja's father and Puja is not Shyam's niece.		
	C.If Shyam is not Ram's Brother, then Ram is Puja's father or Puja is Shyam's niece.		
	D.If Shyam is Ram's Brother, then Ram is Puja's father and Puja is Shyam's niece.		
31)	The compound propositions p and q are called logically equivalent if is a tautology. A. $p \leftrightarrow q$ B. $p \rightarrow q$ C. \neg (p \lor q) D. \neg p \lor \neg q	A	
32)	p V q is logically equivalent to A.¬q \rightarrow ¬p B.q \rightarrow p C.¬p \rightarrow ¬q D.¬p \rightarrow q	D	
33)	¬ $(p \leftrightarrow q)$ is logically equivalent to A. $q \leftrightarrow p$ B. $p \leftrightarrow \neg q$ C. $\neg p \leftrightarrow \neg q$ D. $\neg q \leftrightarrow \neg p$	В	
34)	p \land q is logically equivalent to A. \neg (p \rightarrow \neg q) B.(p \rightarrow \neg q) C.(\neg p \rightarrow \neg q) D.(\neg p \rightarrow q)	A	
35)	Which of the following statement is correct? A.p $\lor q \equiv q \lor p$ B. $\neg (p \land q) \equiv \neg p \lor \neg q$ C.(p $\lor q$) $\lor r \equiv p \lor (q \lor r)$ D.All of mentioned	D	
36)	$\begin{aligned} p &\leftrightarrow q \text{ is logically equivalent to} \\ A.(p &\to q) \to (q \to p) \\ B.(p &\to q) \lor (q \to p) \\ C.(p &\to q) \land (q \to p) \\ D.(p \land q) &\to (q \land p) \end{aligned}$	С	

37)	$(p \rightarrow q) \land (p \rightarrow r)$ is logically equivalent to $A.p \rightarrow (q \land r)$ $B.p \rightarrow (q \lor r)$ $C.p \land (q \lor r)$ $D.p \lor (q \land r)$	A
38)	$P \rightarrow (Q \rightarrow R)$ is equivalent to a)(P \land Q)-> R b)(P v Q)->R c)(P v Q)-> \mid R d)None of these	A
39)	¬ $(p \leftrightarrow q)$ is logically equivalent to A.p \leftrightarrow ¬q B.¬p \leftrightarrow q C.¬p \leftrightarrow ¬q D.¬q \leftrightarrow ¬p	A
40)	Let P (x) denote the statement "x >5." Which of these have truth value true? A.P (0) B.P (6) C.P (2) D.P (1)	В
41)	Let $Q(x)$ be the statement " $x < 5$." What is the truth value of the quantification $\forall x Q(x)$, having domains as real numbers. A. True B. False	В
42)	Determine the truth value of $\forall n(n + 1 > n)$ if the domain consists of all real numbers. A.True B.False	A
43)	A biconditional is symbolized like this A. $p \lor q$ B. $p \leftrightarrow q$ C. $p * q$ D. $p \land q$	В
44)	Let R (x) denote the statement " $x > 2$." What is the truth value of the quantification $\exists x R(x)$, having domain as real numbers? A.True B.False	A

45)	The symbolization for a conjunction is	В
	A. $p \rightarrow q$	
	B. $p \wedge q$	
	C. pvq	
	D. ~ p	
46)	In a truth table for a two-variable argument, the first guide column has the following truth	A
	values:	
	A. T, T, F, F	
	B. F, F, T, T	
	C. T, F, T, F	
	D. T, F, F, F	
47)	Which of the following are tautologies?	D
	A. $((P \lor Q) \land Q) \leftrightarrow Q$	
	B. $((P \vee Q) \wedge P) \rightarrow Q$	
	C. $((P \lor Q) \land P) \rightarrow P$	
	D. Both (a) & (b)	
48)	Which of the following propositions is tautology?	C
	A. $(p \vee q) \rightarrow q$	
	B. $p \vee (q \rightarrow p)$	
	C. $p \vee (p \rightarrow q)$.	
	D. Both (b) & (c)	
49)	Which of the proposition is p^ (~ p v q) is	C
	A. A tautology	
	B. A contradiction	
	C. Logically equivalent to p ^ q	
	D. All of above	
50)	"Everyone wants to learn cosmology." This argument may be true for which domains?	C
50)	A.All students in your cosmology class	
	B.All the cosmology learning students in the world	
	C.Both of the mentioned	
	D.None of the mentioned	
51)	Number of ways in which 7 girls & 7 boys can be arranged such that no two boys and no	C
	two girls are together is	
	A. 12!(2!)2	
	B. 7! 8!	
	C. 2(7!)2	
	D. None of these	
<u></u>		1

52)	A	is an arrangement of outcomes in which the order does not matter	A
	A.	Permutation	
	1	Combination	
	C.	Both A & B	
	D.	None of the above	
53)	How m	any substrings (of all lengths inclusive) can be formed from a character string of	D
33)		8? (Assume all characters to be distinct)	D
	A.14	(Assume all characters to be distinct)	
	B.21		
	C.54		
	D.37		
5.4			_
54)	Α	is a grouping of outcomes in which the order does not matter	В
	E.	Permutation	
		Combination	
		Both A & B	
	H.	None of the above	
55)	What is	s formula of Combinations?	В
	A.	${}^{n}C_{r} = n!/(n-r)!$	
	B.	${}^{n}C_{r} = n!/r! (n-r)!$	
	C.	Both A & B	
	D.	None of the above	
56)	Let M	be a sequence of 9 distinct integers sorted in ascending order. How many distinct	A
	pairs of	f sequences, N and O are there such that i) each are sorted in ascending order, ii) N	
		nd O has 4 elements, and iii) the result of merging N and O gives that sequence?	
	A.84		
	B.35		
	C.194		
	D.138		
57)	The nu	mber of ordered triplets (a, b, c), a, b, c \in N, such that a + b + c \leq 20 is	D
	A.	Less than 100	
	B.	Less than 1000	
	C.	Equal to 1000	
	D.	More than 1000	
58)	A poly	gon has 44 diagonals. The number of its sides is	В
		10	
		11	
		12	
	D.	13	

59)	The number of ways in which a mixed doubles tennis game can be arranged between 10 players consisting of 6 men and 4 women is	A
	A. 180	
	B. 90	
	C. 48	
(0)	D. 12	A
60)	The number of zeroes at the end of (127)! is	A
	A. 31 B. 30	
	C. 0	
	D. 10	
61)	Matrix obtained by changing rows and columns is called	В
01)	A. rectangular matrix	D
	B. transpose	
	C. symmetric	
	D. none	
62)	Generally the elements of a matrix are denoted by	D
	A. numbers	
	B. capital letters	
	C. small letters	
(2)	D. both A and C	•
03)	A symmetric matrix is a one in which?	C
	A.All diagonal elements are zero	
	B.All diagonal elements are 1 $C.A = A^{T}$	
	$D.A = -A^{T}$	
	D.A – -A	
64)	An anti-symmetric matrix is a one in which?	D
	A.All diagonal elements are zero	
	B.All diagonal elements are 1	
	$C.A = A^{T}$	
	$D.A = -A^{T}$	
65)		В
03)	2+x 3 4	D
	If 1 -1 2 is a singular matrix, then x is	
	1 _5	
	12 25	
	(a) $\frac{13}{25}$ (b) $-\frac{25}{13}$	
	25	
	5 25	
	(c) $\frac{5}{13}$ (d) $\frac{25}{13}$	
	13 13	
66)	If for a square matrix A and B,null matrix O, AB = O implies A=O and B=O.	В
50)	A.True	D
	B.False	

67)	Find the adjoint of the matrix $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$.	В
	(a) $\begin{bmatrix} 4 & 2 \\ 3 & 1 \end{bmatrix}$ (b) $\begin{bmatrix} 4 & -2 \\ -3 & 1 \end{bmatrix}$	
	(c) $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ (d) $\begin{bmatrix} 1 & -2 \\ -3 & 4 \end{bmatrix}$	
68)	If matrix $M = [1 \ 3 \ 6 \ 5]$ and M^{T} (M transpose) is called	C
	A. Zero matrix	
	B. Diagonal matrix	
	C. Column matrix	
(0)	D. Row matrix	~
69)	For a skew symmetric odd ordered matrix A of integers, which of the following will hold true?	C
	A.detA.= 9	
	B.detA.= 81	
	C.det A.= 0	
	D.detA.= 4	
70)	The Inverse exist only for non-singular matrices.	A
	A.True	
	B.False	
71)	If matrix $M = \begin{bmatrix} 4 & 10 \\ 2 & 5 \end{bmatrix}$ then determinant of matrix M	C
	- 2 0-	
	A. 1 B1	
	B1 C. 0	
	D. 10	
72)	If A is a lower triangular matrix then A ^T is a	В
	A.Lower triangular matrix	ر د
	B.Upper triangular matrix	
	C.Null matrix	
	D.None of the mentioned	

73)	The functions expressed in form of ratios and form of quotient of polynomials are	A
	A. rational functions	
	B. irrational functions	
	C. quotient function	
	D. ratio function	
74)	An onto function are known as injection. A.True B.False	В
75)	A function is a relation from a set of inputs to a set of possible outputs where each input is related to exactly one output is called. A. One to one function B. One to many function C. Many to one function D. Many to many function	
76)	function is a relation from a set of inputs to a set of possible outputs where each input is related to exactly one output is called. A. One to one function B. One to many function C. Many to one function D. Many to many function	
77)	 If X is domain and Y is codomain then function represented A. f: X→Y B. f: Y→X C. Both A & B D. None of the above 	
78)	Domain of function also called A. Output of function B. Input of function C. Both A & B D. None of the above	В
79)	Range of function also called A. Output of function B. Input of function C. Both A & B D. None of the above	A

80)	May possibly come out of a function is called the	В
	A. Domain	
	B. Codomain	
	C. Range	
	D. None of the above	
81)	Actually comes out of a function is called the Range	C
	A. Domain	
	B. Codomain	
	C. Range	
	D. None of the above	
82)	f=cos(x) is which kind of function	A
	A. Even Function	
	B. Odd Function	
	C. Composite Function.	
	D. None of the above	
83)	$f(x) = x/(x^2 - 1)$	В
	A. Even Function	
	B. Odd Function	
	C. Composite Function.	
	D. None of the above	
84)	$f(x) = a^x$ is which of the following is	A
	A. Exponential Function	
	B. Rational Function	
	C. Linear Function	
	D. None of the above	
85)	Function having same range as well as domain	C
	A. Exponential Function	
	B. Rational Function	
	C. Identity Function	
	D. None of the above	
86)	is a function whose (output) value is the same for every input value	A
	A. Constant function	
	B. Rational Function	
	C. Identity Function	
	D. Exponential Function	
87)	If $f(x)=4x^2-2x+5$ then $f(2)=?$	В
	A. 7	
	B. 17	
	C. 27	
	D. 37	

88)	The Cartesian system is also called as	В
	A.Circular coordinate system	
	B. Rectangular coordinate system	
	C. Spherical coordinate system	
	D. Space coordinate system	
89)		C
	A. 5,5	
	B. 10,5	
	C. 10,0	
	D. 0,10	
90)	The scalar factor of Cartesian system is unity. State True/False.	A
	A.True	
	B.False	
91)	Which of the following criteria is used to choose a coordinate system?	D
	A.Distance	
	B.Intensity	
	C.Magnitude	
	D.Geometry	
92)	The distance of the point P(-2, 6) from the x-axis is	В
	A.2	
	B2	
	C.6	
	D6	
93)	If the coordinates of a point are (10, 0), then it lies in:	В
	A. X-axis	
	B. Y-axis	
	C. At origin	
	D. Between x-axis and y-axis	
94)	If the coordinates of a point are (0, -4), then line parallel to:	A
	A. X-axis	
	B. Y-axis	
	C. At origin	
	D. Between x-axis and y-axis	
95)	If y coordinate of a point is zero, then the point lies on:	D
	A. First quadrant	
	B. Second quadrant	
	C. X-axis	
	D. Y-axis	
96)	The point P in Cartesian plane is located by an ordered pair called	C
	A. (c, b, a)	
	B. (a, b, c)	
	C. (a, b)	
	D. (b, a)	
	14	

97)	Consid	ler equation $x+5y = 10$ if $x=0$ then $y=?$	\mathbf{C}
	A.	5	
	B.	10	
	C.	2	
	D.	8	
98)	Consid	er equation $4x+2y=10$ if $x=1$ then $y=?$	В
	A.	6	
	B.	3	
	C.	2	
	D.	7	
99)	The po	int A(-5,5) is belongs to which Quadrants?	\mathbf{C}
	A.	I st Quadrant	
	B.	II nd Quadrant	
	C.	III rd Quadrant	
	D.	IV th Quadrant	
100)	If value	e of x is negative and y is negative then it lies on _	C
	A.	I st Quadrant	
	B.	II nd Quadrant	
	C.	III rd Quadrant	
	D.	IV th Quadrant	

	Question Bank of	A
	CA-1.5 Essentials of Web Design(254105)	N S
1)	A program in HTML can be rendered and read by -	A
	A) Web browserB) ServerC) InterpreterD) None of the above	
2)	Gif And Jpg Are The Two Main Types Of What?	В
	A) Videos B) Images	
	C) None Of The Above D) Animated Effects	
3)	HTML tags are surrounded by brackets.	С
	A) Square B) Round	
	C) Angle D) Curly	
4)	Which attribute sets the text direction as related to lang attribute?	В
	A) Sub B) Lang C) Dir D) DS	
5)	Which of the following selector matches an element based on its id?	A
	A) The Id Selector B) The Universal Selector	
	C) The Descendant Selector D) The Class Selector	
6)	In HTML, how many headings are defined?	С
	A) h1 to h4 B) h1 to h5 C) h1 to h6 D) h1 to h9	
7)	From which tag descriptive list starts?	С
	A) <ll> B) <dd></dd></ll>	
	C) <dl> D) <ds></ds></dl>	
8)	Which of the following tag is used to define options in a drop-down selection list?	D
	A) <select> B) B) <</select>	
	C) <dropdown> D) <option></option></dropdown>	
9)	How can you open a link in a new browser window?	В
	A) < a href = "url" target = "new">	
	B) 	
	C) <a .new="" href="url">	
	D) 	

10)	Select the correct HTML syntax for creating a text area?	C
	A) <input type="textarea"/>	
	B) <input type="textbox"/>	
	C) <textarea></td><td></td></tr><tr><td></td><td>D) None of the above</td><td></td></tr><tr><td>11)</td><td>Which tag inserts a line horizontally on web page?</td><td>A</td></tr><tr><td></td><td>A) < hr > B) <Line> C) < line irection "Horizontal"> D)</td><td></td></tr><tr><td>12)</td><td>How to insert an image in HTML?</td><td>D</td></tr><tr><td></td><td>A) <imghref = "img.png" /> B) <imgurl = "img.png" /></td><td></td></tr><tr><td></td><td>C) D) <imgsrc = " img.png" /></td><td></td></tr><tr><td>13)</td><td>Which HTML tag is used to define an internal style sheet?</td><td>A</td></tr><tr><td></td><td>A) <style> B) <css> C) <script> D) <link></td><td></td></tr><tr><td>14)</td><td>Which attribute is used to start a video automatically?</td><td>D</td></tr><tr><td></td><td>A) submit</td><td></td></tr><tr><td></td><td>B) select</td><td></td></tr><tr><td></td><td>C) <video></td><td></td></tr><tr><td></td><td>D) autoplay</td><td></td></tr><tr><td>15)</td><td>Which HTML tag is used to display the power in expression, i.e., (x² - y²)?</td><td>A</td></tr><tr><td></td><td>A) <sup> B) <sub></td><td></td></tr><tr><td></td><td>C) D) None of the above</td><td></td></tr><tr><td>16)</td><td>Which of the following element is responsible for making the text italic in HTML?</td><td>A</td></tr><tr><td></td><td>A) <math>\langle i \rangle</math> B) <math>\langle italic \rangle</math> C) <math>\langle it \rangle</math> D) <math>\langle pre \rangle</math></td><td></td></tr><tr><td>17)</td><td>Apart from tag, what other tag makes text bold ?</td><td>В</td></tr><tr><td></td><td>A) <fat> B) </td><td></td></tr><tr><td></td><td>C) \left\{black\} D) \left\{emp\}</td><td></td></tr><tr><td>18)</td><td>which of the following tag is used to mark a begining of paragraph?</td><td>С</td></tr><tr><td></td><td>A) <TD> B)
br> C) <P> D) <TR></td><td></td></tr></tbody></table></textarea>	

19)	Which is the correct way to comment out something in HTML?	В
	A) Using ## and #B) Using and	
	C) Using and -/- D) Using and -!	
20)	Correct HTML tag for the largest heading is	С
	A) <head> B) <h6> C) <h1> D) <heading></heading></h1></h6></head>	
21)	Which tag creates a Textbox for a form in HTML?	В
	A) <textbox> B) <input type="text"/> C) <input=textbox> D) <input textbox=""/></input=textbox></textbox>	
22)	How can you make a Bulleted list ?	D
	A) <dl> B) C) C) D) </dl>	
23)	The correct sequence of HTML tags for starting a webpage is -	D
	A) Head, Title, HTML, bodyB) HTML, Body, Title, Head	
	C) HTML, Title, Body, HeadD) HTML, Head, Title, Body	
24)	HTML is considered as language	С
	A) OOP Language	
	B) Higher Level Language	
	C) Markup Language	
	D) Programming lang	
25)	Web pages starts with which of the following tag?	В
	A) <body> B) <html></html></body>	
	C) <title> D) <Form></td><td></td></tr><tr><td>26)</td><td>Which of the following tag is used to make the underlined text?</td><td>С</td></tr><tr><td></td><td>A) <i> B) <u> C) <u> D) <pre></td><td></td></tr><tr><td>27)</td><td>Which CSS property is used to control the text size of an element?</td><td>A</td></tr><tr><td></td><td>A) font-size B) text-size C) font-style D) text-style</td><td></td></tr><tr><td>28)</td><td>Markup tags tell the web browser</td><td>В</td></tr><tr><td></td><td>A) How to organise the page</td><td></td></tr><tr><td></td><td>B) How to display the page</td><td></td></tr><tr><td></td><td>C) How to display message box on page</td><td></td></tr><tr><td></td><td>D) None of these</td><td></td></tr></tbody></table></title>	

29)	Which of the following is used to merge rows in the table?	C
	A) colB) colspanC) rowspanD) row	
30)	What is the correct HTML tag for inserting a line break?	В
	A) <lb> B) C) break> D) <newline></newline></lb>	
31)	In HTML5, which of the following tag is used to initialize the document type?	D
	A) <doctype html="">B) <\Doctype html></doctype>	
	C) <doctype>D) <!DOCTYPE html> </doctype>	
32)	Which of the following element is responsible for making the text bold in HTML?	С
	A) <pre> B) <a> C) D) b></pre>	
33)	Which of the tag is used to creates a number list?	В
	A) B) C) D) None of these	
34)	Which tags can be used to display the audio and video?	С
	A) <audio></audio>	
	B) <video></video>	
	C) both A) & B)	
	D) none of the above	
35)	How to create a checkbox in HTML?	A
	A) <input type="checkbox"/> B) <input type="button"/>	
	C) <checkbox> D) <input type="check"/></checkbox>	
36)	Correct HTML tag for the smallest heading is	В
	A) <head> B) <h6> C) <h1> D) <heading></heading></h1></h6></head>	
37)	HTML supports	С
	A) ordered lists B) unordered lists	
	C) both type of lists D) does not support list	
38)	The attribute of <form> tag</form>	С
	A) Method B) Action	
	C) Both A) & B) D) None of these	
	1	

39)	What Tag Is used	To add an image to HTML Page?	В
	A) Picture	B) Img	
	C) Src	D) Image	
40)	HTML tags are e	nclosed in-	D
	A) # and #	B) { and }	
	C) !and ?	D) < and >	
41)	Which of the foll character?	owing attributes of text box control allow to limit the maximum	С
	A) size B) len	C) maxlength D) all of these	
42)	What is the corre	ct HTML for adding a background color?	С
	A) <background></background>	>yellow <background></background>	
	B) <body color="</td"><td>"yellow"></td><td></td></body>	"yellow">	
	C) <body bgcolo<="" td=""><td>r = "yellow"></td><td></td></body>	r = "yellow">	
	D) <body bg="y</td><td>ellow"></body>		
43)	The <hr/> > tag in I	HTML is used for -	D
	A) new line	B) vertical ruler	
	C) new paragrapl	n D) horizontal ruler	
44)	Which of the foll	owing is the correct way to create a list using the lowercase letters?	В
	A) \leq ol alpha = "a	" >	
	B) <ol <="" td="" type="a"><td>></td><td></td>	>	
	C) <ol letter="a</td><td>">		
	D) None of the al	bove	
45)	Which of the foll	owing tag is used to add rows in the table?	С
	A) and <td>></td> <td></td>	>	
	B) and	>	
	C) and		
	D) None of the al	bove	

В
С
В
A
С
В
A
_

Correct HTML to left align the content inside a table cell is A) <tdleft> B) C) D) Which of the following is the correct way to start an ordered list with the count of numeric value 4? A) <ol initial="4" type="1"> B) <ol begin="4" type="1"></tdleft>	D
C) D) Which of the following is the correct way to start an ordered list with the count of numeric value 4? A) <ol initial="4" type="1">	D
numeric value 4? A) <ol initial="4" type="1">	D
B) <01 type = "1" begin = "4">	
b) (of type = 1 begin = +)	
C) <ol num="4" type="1">	
D) <ol start="4" type="1">	
56) There are different of heading tags in HTML	C
A) 4 B) 5 C) 6 D) 7	
57) How can you created rounded corners using CSS3?	C
A) border[round]: 30px;	
B) corner-effect: round;	
C) border-radius: 30px;	
D) alpha-effect: round-corner;	
58) Which of the following tag is used to add column in the table?	A
A) and	
B) and	
C) and	
D) None of the above	
59) An HTML program is saved by using the extension.	В
A) .ht	
B) .html	
C) .hml	
D) None of the above	
60) Which of the following is an attribute of <table> tag?</table>	C
A) SRC B) LINK	
C) CELLPADDING	
D) BOLD	

61)	Which of the following is not a valid CSS unit?	C
	A) ptB) pxC) pixD) cm	
62)	The body tag usually used after	В
	A) Title tag B) HEAD tag	
	C) EM tag D) FORM tag	
63)	Increasing Cell padding means?	
	A) increase softness of your site	
	B) increase space between cell	
	C) increase the distance between cell and content	
	D) none of the above	
64)	The tags in HTML are -	С
	A) case-sensitive	
	B) in upper case	
	C) not case sensitive	
	D) in lowercase	
65)	Which of the following is the root tag of the HTML document?	D
	A) <body>B) <head>C) <title>D) <html></td><td></td></tr><tr><td>66)</td><td>Which Of The Following Is A Declaration For An HTML Document?</td><td>В</td></tr><tr><td></td><td>A) <html></html></td><td></td></tr><tr><td></td><td>B) <!DOCTYPE Html></td><td></td></tr><tr><td></td><td>C) <body></body></td><td></td></tr><tr><td></td><td>D)</td><td></td></tr><tr><td>67)</td><td>In css what does "font-size" can be called as</td><td>В</td></tr><tr><td></td><td>A) SelectorB) Property-Name C) Value D) Tag</td><td></td></tr><tr><td></td><td>A) Selector B) 1 toperty-tvalue C) value D) 1 ag</td><td></td></tr></tbody></table></title></head></body>	

68)	HTML Links Are Defined With <a> Tag And Address Is Specified By Attribute	A
	A) Href	
	B) Hlink	
	C) Src	
	D) Src-link	
69)	Which of the following is / are the state of the links in CSS?	D
	A) a:visited	
	B) a:hover	
	C) a:active	
	D) All of the above.	
70)	Which element of the text type shows that it is important?	D
	A) 	
	B) 	
	C)	
	D) Both A) & B)	
71)	Which attribute is use to merge two cells horizontally?	В
	A) merge B) colspan C) rowspan D) horizontal	
72)	What does CSS stand for?	С
	A) Creative Style Sheets B) Colorful Style Sheets	
	C) Cascading Style Sheets D) Computer Style Sheets	
73)	Pick the odd one out.	D
	A) Table B) TR C) TD D) TS	
74)	Which of the following attributes is used to open a hyperlink in new tab?	С
	A) tab B) href C) target D) ref	
75)	Which property is used in css to change the background color?	A
	A) background-color B) color C)bgcolor D)back-color	

What does vlink attribute mean? A) visited link B) virtual link C) very good link D) active link	A
Which of the following is a correct character entity for "copyright" symbol? A) © B) Ccopy; C) ©right D) &c	A
Which of the following is an attribute related to font tag? A) size B) face C) color D) All of the above	D
If we want to use a nice looking green dotted border around an image, which css property will we use? A) border-color B) border-decoration C) border-style D) border-line	С
When we write <imgsrc="img.png">, what "img.png" inside double quote implies? A) element B) attribute C) value D) operator</imgsrc="img.png">	С
The default value of "position" attribute is A) fixed B) absolute C) inherit D) relative	D
Which of the following property sets the width of an element's complete border? A) border-width B) width C) border-depth D) none of the above	
In CSS what does H1 can be called as ? A) Selector B) Attribute C) Value D) Tag	A

84)	If we want define style for an unique element, then which css selector will we use?	A
	A) Id B) text C) class D) name	
85)	selectors, which are used to specify a group of elements	В
	A) id B) class C) tag D) None of the above	
86)	Where in an HTML document is the correct place to refer to an external stylesheet?	A
	A) <head> B)Body C) <form> D) <script></td><td></td></tr><tr><td>87)</td><td>Which tag is used to define internal style sheet</td><td>C</td></tr><tr><td></td><td>A) <script > B) <head> C) <style> D) <form></td><td></td></tr><tr><td>88)</td><td>Which tag supports CSS code between its opening and closing tag?</td><td>C</td></tr><tr><td></td><td>A) < div > < /div ></td><td></td></tr><tr><td></td><td>B) <css> < /css></td><td></td></tr><tr><td></td><td>C) < style > < /style ></td><td></td></tr><tr><td></td><td>D) < link > < /link ></td><td></td></tr><tr><td>89)</td><td>As a general rule, properties in CSS inherit from elements</td><td>В</td></tr><tr><td></td><td>A) child to parent B) parent to child</td><td></td></tr><tr><td></td><td>C) grandparents to parents D) none of the above</td><td></td></tr><tr><td>90)</td><td>Which CSS property lets you adjust the size of the text?</td><td>В</td></tr><tr><td></td><td>A) text-size</td><td></td></tr><tr><td></td><td>B) font-size</td><td></td></tr><tr><td></td><td>C) display-size</td><td></td></tr><tr><td></td><td>D) None of the given.</td><td></td></tr><tr><td>91)</td><td>Which of the following selector matches all elements of a type?</td><td>В</td></tr><tr><td></td><td>A) The Type Selector</td><td></td></tr><tr><td></td><td>B) The Universal Selector</td><td></td></tr><tr><td></td><td>C) The Descendant Selector</td><td></td></tr><tr><td></td><td>D) The Class Selector</td><td></td></tr><tr><td>92)</td><td>How can you make a bulleted list with numbers?</td><td>D</td></tr><tr><td></td><td>A) $\langle dl \rangle B$) $\langle ul \rangle C$) $\langle list \rangle$ D. $\langle ol \rangle$</td><td></td></tr><tr><td></td><td>1</td><td>1</td></tr></tbody></table></script></form></head>	

93)	Which of the attribute is used to add video controls like play, pause and volume in video	В
	A) autoplay B) Controls C) Video Ctrl D) Play	
94)	Which of the following property is used to control the space between the border and content in a table?	С
	A) border B) margin C) padding D) resize	
95)	Which of the following uses of the tag is correct?	A
	A) < link rel="stylesheet" href="css/my_styles.css" >	
	B) < link rel="stylesheet" src="css/my_styles.css" >	
	C) < link rel="css" >	
	D) < link href="css/my_styles.css" >	
96)	What is CSS?	С
	A) Used to customize a page for each user	
	B) A subset of HTML	
	C) Used to control what a page looks like	
	D) None of the given.	
97)	Which CSS property allows you to control the spacing between html items?	С
	A) spacingB) paddingC) marginD) None of the given.	
98)	If you wanted to move a banner to the right instead of the left, which of these would you set?	В
	A)margin-bottom: B) margin-left: C) margin-top: D) margin-right:	
99)	HTML stands for?	A
	A) Hyper Text Markup Language	
	B) High Text Markup Language	
	C) Hyper Tabular Markup Language	
	D) None of these	
100)	Which character is used to represent the closing of a tag in HTML?	С
	A)\ B)! C)/ D)*	

	Question Bank of	A N
	CA-5.1 Web UI Design(254501)	S
1)	How to get a particular value using the tagged name?	С
	A)getElementbyID()	
	B)getElementsbyName()	
	C)getElementsbyTagName()	
	D)getTagName()	
2)	Which company developed JavaScript?	В
	A) Bell Labs	
	B) Netscape	
	C) Sun Microsystems	
	D) IBM	
3)	What are the types of Pop up boxes available in JavaScript?	D
	A) AlertB) PromptC) ConfirmD) All of the above	
4)	Choose the correct JavaScript syntax to change the content of the following HTML code.	С
	A)document.getElement ("test").innerHTML = "I am a test";	
	B)document.getId ("test") = "I am a test";	
	C)document.getElementById ("test").innerHTML = "I am a test";	
	D)documents.getElementByIds ("test").innerHTML = I am a test;	
5)	JavaScript islanguage	С
	A) Programming B) Application C) Scripting D) system	
6)	Which of them is not the looping structures in JavaScript?	С
	A) forB) whileC)forwhichD)dowhile	
7)	With jQuery, look at the following selector: \$("div"). What does it select?	A
	A) All div elements	
	B) The first div element	
	C) The last div element	
	D) none of above	

8)	The speed options can be applied to which jQuery functions?	В
	A) css and ajax	
	B) show and fadeIn	
	C) toggleCss	
	D) All of the above	
9)	Which property is used to specify the key type when pressed?	A
	A) keyCodeB) keyTypeC) keyNameD) keyProperty	
10)	Which event can be fired on any scrollable document element?	В
	A) WindowB) ScrollC) LoadD) Unload	
11)	What is mean by "this" keyword in javascript?	A
	A) It refers current object	
	B) It refers previous object	
	C) It is variable which contains value	
	D) None of the above	
12)	In general, event handler is nothing but	A
	A) functionB) interfaceC) eventD) handler	
13)	The var statement is used to:	A
	A) Create a new local variable	
	B) Retrieve a variable descriptor	
	C) Declare a member of a class	
	D) Change a constant	
14)	BOM stands for	В
	A) Binary object modeB) Browser object model	
	C) Binary Object modellingD) none of the above	
15)	\$("P:first").hide() will hide	В
	A) All Paragraphs B) First Paragraph C) Last ParagraphD) None	
16)	Which of the following is a Jquery UI Effect	В
	A) ResizableB) Show	
	C) DroppableD) Hidden	

A)AvailHeightB)ColorsDepthC)AvailWidthD)ColorDepth \$("span.intro"). What does it select? A) The first span element with class="intro" B) The first span element with id="intro" C) All span elements with id="intro" D) All span elements with class="intro" 19) Which method is used to add a binding? A) binding()B) add_bind() C) bind()D) addbind() 20) How do you declare a JavaScript variable? A) variable carName; B) v carName; C) varcarName;D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	C
A) The first span element with class="intro" B) The first span element with id="intro" C) All span elements with id="intro" D) All span elements with class="intro" 19) Which method is used to add a binding? A) binding()B) add_bind() C) bind()D) addbind() 20) How do you declare a JavaScript variable? A) variable carName; B) v carName; C) varcarName; D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	С
B) The first span element with id="intro" C) All span elements with id="intro" D) All span elements with class="intro" 19) Which method is used to add a binding? A) binding()B) add_bind() C) bind()D) addbind() 20) How do you declare a JavaScript variable? A) variable carName; B) v carName; C) varcarName;D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	
C) All span elements with id="intro" D) All span elements with class="intro" 19) Which method is used to add a binding? A) binding()B) add_bind() C) bind()D) addbind() 20) How do you declare a JavaScript variable? A) variable carName; B) v carName; C) varcarName; D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	
D) All span elements with class="intro" 19) Which method is used to add a binding? A) binding()B) add_bind() C) bind()D) addbind() 20) How do you declare a JavaScript variable? A) variable carName; B) v carName; C) varcarName;D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	
19) Which method is used to add a binding? A) binding()B) add_bind() C) bind()D) addbind() 20) How do you declare a JavaScript variable? A) variable carName; B) v carName; C) varcarName; D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	
A) binding()B) add_bind() C) bind()D) addbind() 20) How do you declare a JavaScript variable? A) variable carName; B) v carName; C) varcarName;D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	
C) bind()D) addbind() 20) How do you declare a JavaScript variable? A) variable carName; B) v carName; C) varcarName;D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	С
20) How do you declare a JavaScript variable? A) variable carName; B) v carName; C) varcarName;D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	С
A) variable carName; B) v carName; C) varcarName;D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	С
C) varcarName;D) char[20] carName 21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	
21) What does the "min" mean in jquery.min.js? A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	
A) Minimised versionB) Miniature C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	
C) Minimised parametersD) Minimum value 22) What is the alternate name for Java script?	A
22) What is the alternate name for Java script?	
	D
A)LimeScriptB)vbscriptC)ECAMScriptD) ECMAScript	
23) \$("P").action()	С
What type of selector is used in the above jQuery syntax?	
A)id selectorB)class selector	
C)element selectorD)value selector	
24) JavaScript is an implementation of the language standard	
A) VBScriptB) ActionScriptC) ECMAScriptD) HTML	C
Which jQuery method is used to set one or more style properties for selected elements	C
A)css() B) html() C) style()D) animate()	

26)	What does the <noscript> tag do?</noscript>	A
	A) Enclose text to be displayed by non-JavaScript browsers.	
	B) Prevents scripts on the page from executing.	
	C) Describes certain low-budget movies.	
	D) None of the above	
27)	tag is an extension to HTML that can enclose any number of JavaScript statements.	A
	A) <script>B)<BODY>C)<HEAD>D)<TITLE></td><td></td></tr><tr><td>28)</td><td>JavaScript is interpreted by</td><td>A</td></tr><tr><td></td><td>A) ClientB) ServerC) ObjectD) None of the above</td><td></td></tr><tr><td>29)</td><td>Which jQuery method is used to hide selected elements?</td><td>В</td></tr><tr><td></td><td>A) hidden() B) hide() C) visible(false) D) display(none)</td><td></td></tr><tr><td>30)</td><td>Which of the following are not key event properties?</td><td>A</td></tr><tr><td></td><td>A) Code keyB) Alt KeyC) Ctrl KeyD) Shift Key</td><td></td></tr><tr><td>31)</td><td>How do you read the first character in a string?</td><td>A</td></tr><tr><td></td><td>A) data.charAt(0);</td><td></td></tr><tr><td></td><td>B) data.slice(1)</td><td></td></tr><tr><td></td><td>C) data.substr(0);</td><td></td></tr><tr><td></td><td>D) data.charAt(1);</td><td></td></tr><tr><td>32)</td><td>Which of the following attribute can hold the JavaScript version?</td><td>A</td></tr><tr><td></td><td>A) LANGUAGEB) SCRIPTC) VERSIOND) None of the above</td><td></td></tr><tr><td>33)</td><td>What is the correct syntax for referring to an external script called "abc.js"?</td><td>С</td></tr><tr><td></td><td>A)<script href=" abc.js"> B)<script name=" abc.js"></td><td></td></tr><tr><td></td><td>C)<script src=" abc.js">D) None of the above</td><td></td></tr><tr><td>34)</td><td>Which event fires whenever a control loses focus?</td><td>С</td></tr><tr><td></td><td>A) onclickB) onmoveC) onblurD) onchange</td><td></td></tr></tbody></table></script>	

35)	With jQuery, look at the following selector: \$("div.intro"). What does it select?	C
	A) The first div element with class="intro"	
	B) The first div element with id="intro"	
	C) All div elements with class="intro"	
	D) All div elements with id="intro"	
36)	Which statement is true?	В
	A) All the statements are true	
	B) All XML elements must have a closing tag	
	C) All XML elements must be lower case	
	D) All XML documents must have a DTD	
37)	Java script start with	С
	A) Do_script	
	B) Start_script	
	C) <script></td><td></td></tr><tr><td></td><td>D) <scr></td><td></td></tr><tr><td>38)</td><td>How do you write "Hello World" in an alert box?</td><td>С</td></tr><tr><td></td><td>A) msgbox("Hello World"); B) alertbox("Hello World");</td><td></td></tr><tr><td></td><td>C)alert("Hello World"); D) msg("Hello World");</td><td></td></tr><tr><td>39)</td><td>What character combination is used to create a single line comment?</td><td>D</td></tr><tr><td></td><td>A) !!</td><td></td></tr><tr><td></td><td>B) —</td><td></td></tr><tr><td></td><td>C) \$\$</td><td></td></tr><tr><td></td><td>D) //</td><td></td></tr><tr><td>40)</td><td>What character ends a javascript statement?</td><td>В</td></tr><tr><td></td><td>A) An exclamation mark "!".</td><td></td></tr><tr><td></td><td>B) A semicolon ";".</td><td></td></tr><tr><td></td><td>C) A period ".".</td><td></td></tr><tr><td></td><td>D) A colon ":".</td><td></td></tr></tbody></table></script>	

41)	Which of the following Attribute is used to include External JS code inside your HTML Document	A
	A) srcB) extC) scriptD) link	
42)	Which of the following primitive values exist in JavaScript?	D
	A) Boolean B) stringC) numberD) All of the above	
43)	What is the correct JavaScript syntax to write "Hello World"?	С
	A) System.out.println("Hello World")	
	B) println ("Hello World")	
	C) document.write("Hello World")	
	D) response.write("Hello World")	
44)	Which function need to use for toggling fade ?	A
	A) fadeToggleB) fadeInC) fadeoutD)Toggle	
45)	What keyword is used to begin a conditional statement?	С
	A) whenB) howC) ifD) condition	
46)	What is the correct JavaScript syntax to insert a comment that can span multiple lines?	D
	A) // This comment has mor than one line *//	
	B) / This comment has more than one line /	
	C) // This comment has more than one line //	
	D) /* This comment has more than one line */	
47)	How do you define a function called "fName"?	С
	A) function fName: { }	
	B) funcfName = function () {}	
	C) function fName() { }	
	D) new fName = { }	
48)	To which object does the location property belong?	A
	A) WindowB) PositionC) ElementD) Location	
49)	Which among the following is not a property of the Location object?	С
	A) protocolB) hostC) hosteeD) hostname	

50)	How to write your own plug-in using jquery?	A
	A)jQuery.fn.methodName = methodDefinition;	
	B)jQuery.Stylesheet= methodDefinition;	
	C)jQuery.functions.method = methodDefinition;	
	D)jQuery.Stylesheet.function = methodDefinition;	
51)	In an array object, what is the key of the first value?	A
	A) 0B) 2C) 1D) -1	
52)	\$.foo() is equivalent to	С
	A) javascript.foo()B) document.foo()	
	C) jQuery.foo()D) None of the above	
53)	The type that specifies what kind of event occurred is	A
	A) event typeB) even target	
	C) both event type and even targetD) interface	
54)	The focus and blur events are also part of	С
	A) Element eventsB) Handler events	
	C) Window eventsD) Scroll events	
55)	\$('.temp').action()	В
	What type of selector is used in the above jQuery syntax?	
	A)id selectorB)class selector	
	C)name selectorD)value selector	
56)	jQuery code to set the background color of all span elements to blue?	С
	A) \$("span").style("background-color","blue");	
	B) \$("span").manipulate("background-color","blue");	
	C) \$("span").css("background-color","blue");	
	D) \$("span").layout("background-color","blue");	
57)	Which jQuery method is used to switch between adding/removing one or more classes (for CSS) from selected elements?	D
	A) toggleClass()B) switch()	
	C) altClass()D) switchClass()	
<u> </u>	I	ш-1

58)	What are the various speed options? A) The words "slow" and "fast" as well as integers for the milliseconds B) Only the words "slow", "fast", and "medium" C) All of the above	A
	D) None of the above	
59)	Which is the opposite of the load event in JavaScript?	D
	A) dontloadB) postload	
	C) preloadD) unload	
60)	Which sign does jQuery use as a shortcut for jQuery?	A
	A) \$ signB) % signC) ? SignD) None	
61)	What is the value of ("cat".length)?	В
	A) 4B) 3C 1D) 2	
62)	\$("span") what does it selects?	A
	A) All span elementsB)First span element	
	C)Last span elementD)None of above	
63)	Which built in method returns length of string?	С
	A) Size()B) Index()	
	C) Length()D) None of above	
64)	What is the correct syntax of the declaration which defines the XML version?:	В
	A) <xml version="1.0"></xml>	
	B) xml version="1.0"?	
	C) xml version="1.0" /	
	D) None of the above	
65)	\$("#temp").action()	A
	What type of selector is used in the above jQuery syntax?	
	A)id selector B)class selector	
	C)name selector D)value selector	
66)	What scripting language is jQuery written in?	В
	A) VBScriptB) JavaScriptC) C#D) C++	

67)	Which of the following is not a Jquery UI interaction	D
	A) DraggableB) SortableC) ResizableD) Viewable	
68)	What does XML stand for?	В
	A) eXtra Modern Link	
	B) eXtensibleMarkup Language	
	C) Example Markup Language	
	D) X-Markup Language	
69)	Comment in XML document is given by	C
	A)	
	B) !	
	C)	
	D)	
70)	Which of the following is/are the sources of Content Distribution Network(CDN) for jQuery.	D
	A) jQuery CDNB) Microsoft CDN	
	C) Google CDND) All of the above	
71)	Which of the following specifies the property of the event?	A
	A) TypeB) Target_Type	
	C) MannerD) Program	
72)	Which of the following is not a Jquery UI Effect	D
	A) HideB) ShowC) ToggleD) Hidden	
73)	The process by which the browser decides which objects to trigger event handlers on is	D
	A) Event TriggeringB) Event Listening	
	C) Event HandlingD) Event propagation	
74)	Inside which HTML element do we put the JavaScript?	С
	A) <js>B) <scripting>C) <script>D) <javascript></td><td></td></tr></tbody></table></script></scripting></js>	

75)	When is the mouseout event fired?	A
	A) When mouse is no longer over an element	
	B) When mouse is over an element	
	C) When mouse is hovered	
	D) When mouse is clicked	
76)	What does DTD stand for?	В
	A) Direct Type Definition	
	B) Document Type Definition	
	C) Do The Dance	
	D) Dynamic Type Definition	
77)	Which jQuery method is used to perform an asynchronous HTTP request?	В
	A) jQuery.ajaxAsync()B) jQuery.ajax()	
	C) jQuery.ajaxSetup()D) jQuery.ajaxStartup()	
78)	Which of the following strings are a correct XML name?	A
	A) _myElementB) my Element	
	C) #myElementD) None of the above	
79)	Which jQuery function is used to prevent code from running, before the document is finished loading?	С
	A) \$(document).load()B) \$(document).ready()	
	C) \$(body).onload()D) \$(body).unload()	
80)	Which of the following Node object property returns the node immediately before a node?	A
	A) previousSiblingB) textContentC) indexD) localName	
81)	How many node types are there in total?	В
	A) 11B) 12C) 13D) 14	
82)	If you want to stop your jQuery for a few milliseconds, which function do you use?	D
	A) stop()B) pause()C) slowdown()D) delay()	
83)	Which event is fired when a document and all of its external resources are fully loaded and displayed to the user?	В
	A) WindowB) LoadC) ElementD) Handler	

84)	Load remote data using HTTP GET	A
	A) \$.get(url,data,callback,type)	
	B) \$.ajax(options)	
	C) \$.post(url,data,callback,type)	
	D) \$.getScript(url,callback)	
85)	The URL property belongs to which of the following object?	A
	A) DocumentB) ElementC) LocationD) Event	
86)	What operator is used for string concatenation?	В
	A) *B) +C) &D) All of the above	
87)	The properties that specify the position and button state of the mouse are	A
	A) clientX and client B) clientY and clientX	
	C) altKey and ctrlKeyD) metaKey and shiftKey	
88)	jQuery's main focus is	D
	A) AJAXB) DOM Manipulation	
	C) AnimationsD) All of the above	
89)	When are the keyboard events fired?	В
	A) When the user manually calls the button	
	B) When the user clicks a key	
	C) When the user calls the modifier	
	D) When the user right clicks the mouse	
90)	jQuery is a A) JavaScript Library. B)JavaScript Language	A
	C)JavaScript Method D) PHP Method	
91)	Which is the object on which the event occurred or with which the event is associated?	В
	A) event typeB) event target	
	C) both event type and even targetD) interface	
92)	Which of the following event fires when the form element loses the focus: <button>, <input/>, <label>, <select>, <textarea>?</td><td>В</td></tr><tr><td></td><td>A) onfocusB) onblurC) onclickD) ondblclick</td><td></td></tr></tbody></table></textarea></select></label></button>	

93)	Xslt stands for	A
	A)eXtensible Stylesheet Language transformation	
	B)eXtra Stylesheet Language transform	
	C)eXtended Style Language transformation	
	D)eX Stylesheet Language transform	
94)	Which of the following way can be used to indicate the LANGUAGE attribute?	С
	A) <language="javascriptversion"></language="javascriptversion">	
	B) <script language="JavaScriptVersion"></td><td></td></tr><tr><td></td><td>C) <SCRIPT LANGUAGE="JavaScriptVersion"> JavaScript statements</script>	
	D) <script !="" language="JavaScriptVersion"> JavaScript statements</script>	
95)	What are the predefined attributes	С
	A) xml:langB) xml:spaceC) both A) and B)D) none.	
96)	What does the function \$(".selector") return?	С
	A) An array.B) A node list.	
	C) A new jQuery object.D) None of the above	
97)	Inside which HTML tag do we put javascript	D
	A) <js> B) <scripting> C) <javascript> D) <script></td><td></td></tr><tr><td>98)</td><td>varps = \$("p");ps will be</td><td>D</td></tr><tr><td></td><td>A) A linked listB) A hash or dictionary</td><td></td></tr><tr><td></td><td>C) An arrayD) A jQuery object</td><td></td></tr><tr><td>99)</td><td>\$("*").action()</td><td>D</td></tr><tr><td></td><td>What type of selector is used in the above jQuery syntax?</td><td></td></tr><tr><td></td><td>A)id selectorB)class selector</td><td></td></tr><tr><td></td><td>C)name selectorD)Universal selector</td><td></td></tr><tr><td>100)</td><td>DOM is</td><td>В</td></tr><tr><td></td><td>A) Duplicate object modeB) Document object model</td><td></td></tr><tr><td></td><td>C) Doc Object modellingD) none of the above</td><td></td></tr></tbody></table></script></javascript></scripting></js>	

Sr.	Question Bank of	ANS
No.	CA 5.2 Theoretical Computer Science(254502)	
1)	Which of the following is true? a) Every subset of a regular set is regular b) Every finite subset of non-regular set is regular c) The union of two non-regular set is not regular d) Infinite union of finite set is regular	b)
2)	If L1 = $\{x \mid x \text{ is a palindrome in } (0+1)^*\}$	a)
	$L2 = \{ letter (letter + digit)^* \};$	
	$L3 = (0n \ 1n \ 2n \ \ n > 1)$	
	$L4 = \{ambnam+n \mid m, n > 1\}$	
	then which of the following statement is correct?	
	 a) L1 is context free language and L3 is context sensitive language b) L2 is a regular set and L4 is not a context free language c) Both L1 and L2 are regular sets d) Both L3 and L4 are context-sensitive languages 	
3)	$L = \{aP \mid p; \}$ is prime is	b)
	a) regular b) not regular c) accepted by DFA d) accepted by PDA	
4)	Regular expression are a) Type 0 language b) Type 1 language c) Type 2 language d) Type 3 language	a)
5)	Which of the technique can be used to prove that a language is non regular? a) Ardens theorem b) Ogden's Lemma c) Pumping Lemma d) None of the mentioned	c)

6)	Following context free grammar	a)
	$S \longrightarrow aB \mid bA$	ŕ
	A —>b aS bAA	
	$B \longrightarrow b \mid bS \mid aBB$	
	generates strings of terminals that have	
	a) equal number of a's and b's	
	b) odd number of a's and odd number b's	
	c) even number of a's and even number of b'sd) d. odd number of a's and even number of a's	
7)	Which of the following is not true?	b)
	a. Power of deterministic automata is equivalent to power of non-deterministic automata.	
	b. Power of deterministic pushdown automata is equivalent to power of non- deterministic pushdown automata.	
	c. Power of deterministic Turing machine is equivalent to power of non- deterministic Turing machine.	
	d. All the above	
8)	Identify the language which is not context - free.	b.
	a. L = $\{\omega \omega R \omega \in \{0,1\}^*\}$	
	b. $L = \{a^nb^n n \ge 0\}$	
	c. L = $\{\omega\omega \omega\in\{0,1\}^*\}$	
	d. L = $\{a^nb^mc^md^n \mid n, m \ge 0 \}$	
9)	The context-free languages are closed for:	c.
	(i) Intersection (ii) Union	
	(iii) Complementation (iv) Kleene Star	
	a. (i) and (iv)	
	b. (i) and (iii)	
	c. (ii) and (iv)	
	d. (ii) and (iii)	

10)	Grammars that can be translated to DFAs:	a.
	a. Right linear grammar	
	b. Left linear grammar	
	c. Generic grammar	
	d. All of these	
11)	The language accepted by a Push down Automata:	
	a. Type0	c.
	b. Type1	
	c. Type2	
	d. Type3	
12)	Consider the following two languages:	
		c.
	$L1 = \{x \mid \text{for some y with } y = 2^ x , xy \in L \text{ and } L \text{ is regular language} \}$	
	$L2 = \{x \mid \text{for some y such that } x = y , xy \in L \text{ and } L \text{ is regular language}\}$	
	Which one of the following is correct?	
	a. Only L1 is regular language	
	b. Only L2 is regular language	
	c. Both L1 and L2 are regular languages	
	d. Both L1 and L2 are not regular languages	

13)	Palindromes can't be recognized by any FSM because	d
	a. FSM can't remember arbitrarily large of information	
	b. FSM can't deterministically fix the mid-point	
	c. even if mid-point is known, FSM be can't be found whether, second half of the string matches the first half	
	d. all of these	
	To obtain a string of n Terminals from a given Chomsky normal form grammar, the number of productions to be used is:	a.
	a. 2n-1	
	b. 2n	
	c. n+1	
	d. n^2	
15)	Consider the following two Grammars:	c.
	$G1: S \rightarrow SbS \mid a$	
	$G2: S \rightarrow aB \mid ab, A \rightarrow GAB \mid a, B \rightarrow ABb \mid b$	
	Which of the following option is correct?	
	a. Only G1 is ambiguous	
	b. Only G2 is ambiguous	
	c. Both G1 and G2 are ambiguous	
	d. Both G1 and G2 are not ambiguous	
16)	Context sensitive language can be recognized by a:	d.
	a. Finite state machine	
	b. Deterministic finite automata	
	c. Non-deterministic finite automata	
	d. Linear bounded automata	

17)	The set A={ $0^n 1^n 2^n \mid n=1, 2, 3, \dots$ } is an example of a grammar that is:	a.
	a. Context sensitive	
	b. Context free	
	c. Regular	
	d. None of the above	
18)	Regular expression a / b denotes the set	c.
	a. {a}	
	b. { ∈ , a, b }	
	c. {a, b}	
	d. { ab }	
	Which of the following is true?	b)
	a) Every subset of a regular set is regular	
	b) Every finite subset of non-regular set is regular	
	c) The union of two non-regular set is not regular	
	d) Infinite union of finite set is regular	
20)	A push down automaton employs data structure.	d)
	a) Queue	
	b) Linked List	
	c) Hash Table	
	d) Stack	
21)	State true or false:	a)
	Statement: The operations of PDA never work on elements, other than the top.	,
	a) true	
	b) false	
22)	Which of the operations are eligible in PDA?	a)
	a) Push	,
	b) Delete	
	c) Insert	
	d) Find	

23)	Write the regular expression to denote the language L over ? = { a,b} such that all the string do not contain the substring "ab".	b)
	a) a*b*	
	b) b*a*	
	c) (ab)*	
	d) (ba)*	
24)	The following move of a PDA is on the basis of: a) Present state b) Input Symbol c) Both (a) and (b) d) None of the mentioned	c)
25)	Which of the following was not a part of Chomsky hierarchy? a) Context sensitive grammar b) Unrestricted grammar c) Recursive grammar d) None of the mentioned	c)
26)	Assume the R is a relation on a set A, aRb is partially ordered such that a and b are a) reflexive b) transitive c) symmetric d) reflexive and transitive	d)
27)	Recognize the CFL for the given CFG. S-> aB bA, A-> a aS bAA, B-> b bS aBB a) Strings contain equal number of a's and equal number of b's. b) Strings contain odd number of a's and odd number of b's. c) Strings contain odd number of a's and even number of b's. d) Strings contain even number of a's and even number of b's.	a.
28)	Moore Machine is an application of: a) Finite automata without input b) Finite automata with output c) Non- Finite automata with output d) None of the mentioned	b.

29) In Moore machine, output is produced over the change of: a) states b)transitions	
\ D .1	
c) Both	
d) None of the mentioned	
30) FSM shown in the figure	c.
a. all strings	
b. no string	
c. ε- alone	
d. none of these	
31) Which of the following is a correct statement?	a.
a) Moore machine has no accepting states	
b) Mealy machine has accepting states	
c) We can convert Mealy to Moore but not vice versa d) All of the mentioned	
32) In mealy machine, the O/P depends upon?	c.
a) State b) Previous State	
c) State and Input	
d) Only Input	
33) Which of the given are correct?	С.
a) Moore machine has 6-tuples	
b) Mealy machine has 6-tuples	
c) Both Mealy and Moore has 6-tuples	
d) None of the mentioned	
The major difference between Mealy and Moore machine is about:	a.
a) Output Variations	
b) Input Variations	
c) Both	
d) None of the mentioned	

35)	Mealy and Moore machine can be categorized as:	b.
	a) Inducers	
	b) Transducers	
	c) Turing Machines	
	d) Linearly Bounder Automata	
36)	Which one among the following is true?	d.
	A mealy machine	
	a) produces a language	
	b) produces a grammar	
	c) can be converted to NFA	
	d) has less circuit delays	
	When are 2 finite states equivalent?	c.
	a) Same number of transitions	
	b) Same number of states	
	c) Same number of states as well as transitions	
	d) Both are final states	
38)	What does the following figure most correctly represents?	c.
	F	
	 a) Final state with loop x b) Transitional state with loop x c) Initial state as well as final state with loop x d) Insufficient Data 	

39)	Regular expression corresponding to the state diagram given in the figure is	a.
	a. (0+1(1 + 01)* 00)*	
	b. (1 + 0 (0 + 10) 00)*	
	c. (0 + 1 (1 + 10) 00)*	
	d. (1 + 0(1 + 00) 11)*	
	The language which is generated by the grammar S-> aSa / bSb / a / b over the alphabet {a, b} is the set of	c.
	a. Strings that begin and end with the same symbolb. All odd and even length palindromesc. All odd length palindromesd. All even length palindromes	
	Which of the following is not an example of finite state machine system? a. Control Mechanism of an elevator b. Combinational Locks c. Traffic Lights d. Digital Watches	d.

42)	Given: L= $\{x \in \Sigma = \{0,1\} x=0n1n \text{ for } n>=1\}$; Can there be a DFA possible for the language? a) Yes b) No	b.
43)	There are tuples in finite state machine. a) 4 b) 5 c) 6 d) unlimited	b.
44)	Transition function maps. a) $\Sigma * Q \rightarrow \Sigma$ b) $Q * Q \rightarrow \Sigma$ c) $\Sigma * \Sigma \rightarrow Q$ d) $Q * \Sigma \rightarrow Q$	d.
45)	Consider the regular expression 0 * (10 *) which is similar to the same set as a. 0 + (0 + 10) * b. (0 + 1) * 10 (0 + 1) * c. (1 * 0) * 1* d. None of the above	d.
46)	Finite automata requires minimum number of stacks. a. 1 b. 0 c. 2 d. None of the mentioned	b.
47)	Which one of the following is true for the language {am bn c m+n I m, n≥1}? a. It is context-free but not regular b. It is regular c. It is type-0 but not context-sensitive d. It is context-sensitive but not context-free	b.
48)	Regular expression for all strings starts with ab and ends with bba is. a. aba*b*bba b. ab(ab)*bba c. ab(a+b)*bba d. All of the mentioned	c.

The basic limitation of finite automata is that a. It can't remember arbitrary large amount of information. b. It sometimes recognize grammar that are not regular. c. It sometimes fails to recognize regular grammar. d. All of the mentioned	a.
Predict the number of transitions required to automate the following language using only 3 states: L= {w w ends with 00} a. 3 b. 2 c. 4 d. Cannot be said	a.
Reverse of a DFA can be formed by a. using PDA b. making final state as non-final c. making final as starting state and starting state as final state d. None of the mentioned	c.
Concatenation of R with Φ outputs: a) R b) Φ c) R.Φ d) None of the mentioned	b.
Simplify the following regular expression: \(\epsilon+1*(011)*(1*(011)*)*\) a. (1+011)* b. (1*(011)*) c. (1+(011)*)* d. (1011)*	a.
P, O, R be regular expression over \sum , P is not ϵ , then R=Q + RP has a unique solution:	b.
a) Q*P b) QP* c) Q*P*	
d) (P*O*) *	

55)	If two finite state machines are equivalent, they should have the same number of	d.
	a. states	
	b. edges	
	c. states and edges	
	d. none of these	
56)	The difference between number of states with regular expression (a + b) and (a + b) * is: a) 1 b) 2 c) 3 d) 0	a.
	In order to represent a regular expression, the first step to create the transition diagram is: a) Create the NFA using Null moves b) Null moves are not acceptable, thus should not be used c) Predict the number of states to be used in order to construct the Regular expression d) None of the mentioned	a.
58)	Regular Expression denote precisely the of Regular Language. a) Class b) Power Set c) Super Set d) None of the mentioned	a.
	Relate the following statement: Statement: All sufficiently long words in a regular language can have a middle section of words repeated a number of times to produce a new word which also lies within the same language. a) Turing Machine b) Pumping Lemma c) Arden's theorem d) None of the mentioned	b.
60)	While applying Pumping lemma over a language, we consider a string w that belong to L and fragment it into parts. a) 2 b) 5 c) 3 d) 6	c.

61)	If we select a string w such that $w\in L$, and $w=xyz$. Which of the following portions cannot be an empty string?	b.
	a) x	
	b) y	
	c) z	
	d) all of the mentioned	
62)	There exists a language L. We define a string w such that w∈L and w=xyz and w >=n for some constant integer n. What can be the maximum length of the substring xy i.e. xy <=? a) n b) y c) x d) none of the mentioned	a.
63)	Answer in accordance to the third and last statement in pumping lemma: For all $xy^iz \in L$ a) $i>0$ b) $i<0$ c) $i<=0$ d) $i>=0$	d.
	Let w be a string and fragmented by three variable x, y, and z as per pumping lemma. What does these variables represent? a) string count b) string c) both (a) and (b) d) none of the mentioned	a.
65)	Regular expression (a b) (a b) denotes the set	d.
	a. { a, b, ab, aa }	
	b. { a, b, ba, bb }	
	c. { a, b }	
	d. { aa, ab, ba, bb }	
	The language of balanced paranthesis is a) regular b) non regular c) may be regular d) none of the mentioned	b.

67)	The entity which generate Language is termed as: a) Automata b) Tokens c) Grammar d) Data	c.
68)	Production Rule: aAb->agb belongs to which of the following category? a) Regular Language b) Context free Language c) Context Sensitive Language d) Recursively Ennumerable Language	c.
69)	The Grammar can be defined as: G=(V, ∑, p, S) In the given definition, what does S represents? a) Accepting State b) Starting Variable c) Sensitive Grammar d) None of these	b.
70)	Which among the following cannot be accepted by a regular grammar? a) L is a set of numbers divisible by 2 b) L is a set of binary complement c) L is a set of string with odd number of 0 d) L is a set of 0 ⁿ 1 ⁿ	d.
71)	Which is not the correct statement(s)? (i) Every context sensitive language is recursive. (ii) There is a recursive language that is not context sensitive. a. (i) is true, (ii) is false b. (i) is true and (ii) is true c. (i) is false, (ii) is false d. (i) is false and (ii) is true	b.
72)	Which of the following statement is correct? a. All Regular grammar are context free but not vice versa b. All context free grammar are regular grammar but not vice versa c. Regular grammar and context free grammar are the same entity d. None of the mentioned	a.
73)	Are ambiguous grammar context free? a. Yes b. No	a.

	A->aA a The num a. 2 b. 3 c. 4 d. 5	a b aber of steps to form aab:	b.
	L={a ^m b ⁿ a) Conte b) Regul c) Both (f the following the given language belongs to? "c" m>=1 } xt free language ar language (a) and (b) of the mentioned	d
	Which among the following is the correct option for the given grammar? G->X111 G1,X->X0 00 a) {0 ^a 1 ^b a=2,b=3} b) {0 ^a 1 ^b a=1,b=5} c) {0 ^a 1 ^b a=b} d) More than one of the mentioned is correct		
77)	7) Which one of the following is not a Greibach Normal form grammar?		c.
	(i)	$S \rightarrow a bA aA bB$	
		A->a	
		B->b	
	(ii)	S->a aA AB	
		A->a	
		B->b	
	(iii)	S->a A aA	
		A->a	
	a. (i) and	l (ii)	
	b. (i) and	l (iii)	
	c. (ii) an	d (iii)	
	d. (i), (ii) and (iii)	

78)	Which of the following statement is false in context of tree terminology? a. Root with no children is called a leaf b. A node can have three children c. Root has no parent d. Trees are collection of nodes, with a parent child relationship	a.
79)	For the expression E*(E) where * and brackets are the operation, number of nodes in the respective parse tree are: a. 6 b. 7 c. 5 d. 2	b.
80)	The number of leaves in a parse tree with expression E*(E) where * and () are operators a. 5 b. 2 c. 4 d. 3	a.
81)	Context sensitive language can be recognized by a: a. Finite state machine b. Deterministic finite automata c. Non-deterministic finite automata d. Linear bounded automata	d.
82)	is the acyclic graphical representation of a grammar. a. Binary tree b. Oct tree c. Parse tree d. None of the mentioned	c.
83)	Which of the following is false for a grammar G in Chomsky Normal Form: a. G has no useless symbols b. G has no unit productions c. G has no epsilon productions d. None of the mentioned	d.
84)	A CFG is ambiguous if a. It has more than one rightmost derivations b. It has more than one leftmost derivations c. No parse tree can be generated for the CFG d. None of the mentioned	b.

	A null production can be referred to as: a. String b. Symbol c. Word d. All of the mentioned	a.
	NPDA stands for a. Non-Deterministic Push Down Automata b. Null-Push Down Automata c. Nested Push Down Automata d. All of the mentioned	a.
	The format: A->aB refers to which of the following? a. Chomsky Normal Form b. Greibach Normal Form c. Backus Naur Form d. None of the mentioned	b.
	Which of the production rule can be accepted by Chomsky grammar? a) A->BC b) A->a c) S->e d) All of the mentioned	d.
	Every grammar in Chomsky Normal Form is: a) regular b) context sensitive c) context free d) all of the mentioned	c.
	Let G be a grammar: S->AB e, A->a, B->b Is the given grammar in CNF? a) Yes b) No	a
91)	Given grammar G: (1)S->AS (2)S->AAS (3)A->SA (4)A->aa Which of the following productions denies the format of Chomsky Normal Form? a) 2,4 b) 1,3 c) 1, 2, 3, 4 d) 2, 3, 4	a

	Which of the following grammars are in Chomsky Normal Form: a) S->AB BC CD, A->0, B->1, C->2, D->3 b) S->AB, S->BCA 0 1 2 3 c) S->ABa, A->aab, B->Ac d) All of the mentioned	a.
	The variable which produces an epsilon is called: a) empty variable b) nullable c) terminal d) all of the mentioned	b.
	Let $G=(V, T, P, S)$ be a CFG such that Then there exists an equivalent grammar G' having no e productions. a) $e \in L(G)$ b) $e \notin L(G)$ c) $e \notin L(G)$ d) $e \in L(G)$	c.
	Which among the following is the format of unit production? a) A->B b) A->b c) B->Aa d) None of the mentioned	a
96)	Given Grammar G: S->aA A->a A B->B The number of productions to be removed immediately as Unit productions: a) 0 b) 1 c) 2 d) 3	c
	Given grammar: S->aA A->a A->B B->bb Which of the following is the production of B after simplification by removal of unit productions? a) A b) bb c) aA d) A bb	b

98)	Given Grammar: S->A, A->aA, A->e, B->bA	d
	Which among the following productions are Useless productions?	
	a) S->A	
	b) A->aA	
	c) A->e	
	d) B->bA	
99)	Let G be a grammar. When the production in G satisfy certain restrictions, then G	c.
	is said to be in	
	a) restricted form	
	b) parsed form	
	c) normal form	
	d) all of the mentioned	
100)	The DFA shown below accepts the set of all strings over {0, 1} that	a.
	a. End with 00	
	b. End with 0	
	c. Begin either with 0 or 1	
	d. Contain the substring 00	

	Question Bank of CA 5.4 Computer Graphics(254504)	A N S
4)		
1)	Which devices provides positional information to the graphics system?	D
	A. Input devices	
	B. Output devices	
	C. Pointing devices	
<u></u>	D. Both a and c	D
2)	The number of pixels stored in the frame buffer of a graphics system is known as	D
	A. Resolution	
	B. Depth	
	C. Resolution	
	D. Only a	
3)	In graphical system, the array of pixels in the picture are stored in	A
	A. Memory	
	B. Frame buffer	
	C. Processor	
	D. All of the mentioned	
4)	Heat supplied to the cathode by directing a current through a coil of wire is called	C
	A. Electron gun	
	B. Electron beam	
	C. Filament	
	D. Anode and cathode	
5)	The maximum number of points that can be displayed without overlap on a CRT is	B
)	referred as	
	A. Picture	
	B. Resolution	
	C. Persistence	
	D. Neither b nor c	
6)	stores the picture information as a charge distribution behind the	В
0)	phosphor-coated screen.	D
	A. Cathode ray tube	
	· ·	
	B. Direct-view storage tube	
	C. Flat panel displays	
7	D. 3D viewing device	P.
7)	GUI means –	В
	A. Graphical user interaction	
	B. Graphical user interface	
	C. Graphical uniform interaction	
	D. None of the above	

8)	Any CRT based display must be refreshing at least times a second	В
	A. 20	
	B. 30	
	C. 40	
	D. 10	
9)	The resolution of Raster scan display is	A
	A. Low	
	B. High	
	C. Medium	
	D. None	
10)	A shadow mask CRT has phosphor color dots at each pixel position	A
	A. 1	
	B. 2	
	C. 3	
	D. None of the above	
11)	LCD means	C
	A. Liquid chrome data	
	B. Liquid crystal data	
	C. Liquid crystal displays	
	D. None of the above	
12)	Which of the adapter does not support all points' addressable display?	D
	A. VGA	
	B. CGA	
	C. MGA	
	D. EGA	
13)	We can align the electric gun with the help of	C
	A. shadow mask	
	B. resolution	
	C. pixel	
	D. refresh	ļ
14)	In which system, the Shadow mask methods are commonly used	A
	A. Raster-scan system	
	B. Random-scan system	
	C. Only b	
ļ	D. Both a and b	ļ
15)	The process of digitizing a given picture definition into a set of pixel-intensity for	C
	storage in the frame buffer is called	
	A. Rasterization	
	B. Encoding	
	C. Scan conversion	
	D. True color system	

16)		imary output device in a graphics system is	В
	A.	Scanner	
	B.	Video monitor	
	C.	Neither a nor b	
	D.	Printer	
17)	On a b	lack and white system with one bit per pixel, the frame buffer is commonly	\mathbf{C}
	called	as	
	A.	Pix map	
	B.	Multi map	
	C.	Bitmap	
	D.	All of the mentioned	
18)	Which	of the following device is not the input device?	C
		Trackball and space ball	
	B.	Data glove	
	C.	Only d	
	D.	Impact printers	
19)		stands for	C
	A.	Digital View Storing Table	
		Digital Visual Storage Tube	
		Direct View Storage Tube	
		Digital View Storage Tube	
20)		equation is correct about line segment-	В
	A.	x=yc+m	
	B.	y=mx+c	
	C.	y=mc+x	
	D.	None of the above	
21)	On ras	ter system, lines are plotted with	C
		Lines	
	B.	Dots	
	C.	Pixels	
	D.	None of the mentioned	
22)	DDA s	stands for-	D
	A.	Digital Data analyser	
	B.	Digital Direct analysis	
	C.	Digit Distinct analysis	
		Digital Differential analyser	
23)	Which	of the following method is fastest pixel position calculating method	В
		Bresenham's algorithm	
		DDA algorithm	
		Midpoint algorithm	
		None of the above	
-	•		

24)	An accurate and efficient raster line-generating algorithm is	D
	A. DDA algorithm	
	B. Mid-point algorithm	
	C. Parallel line algorithm	
	D. Bresenham's line algorithm	
25)	In Bresenham's line algorithm, if the distances d1 < d2 then decision parameter P	(C
	is	
	A. Positive	
	B. Equal	
	C. Negative	
	D. Option a or c	
26)	If the boundary is specified in a single color, and if the algorithm proceeds pixel by	y B
	pixel until the boundary color is encountered is called	
	A. Scan-line fill algorithm	
	B. Boundary-fill algorithm	
	C. Flood-fill algorithm	
	D. Parallel curve algorithm	
27)	If we want to recolor an area that is not defined within a single color boundary is	\mathbf{C}
	known as	
	A. Boundary-fill algorithm	
	B. Parallel curve algorithm	
	C. Flood-fill algorithm	
	D. Only b	
28)	A translation is applied to an object by	A
	A. Repositioning it along with straight line path	
	B. Repositioning it along with circular path	
	C. Only b	
	D. All of the mentioned	
29)	We translate a two-dimensional point by adding	D
	A. Translation distances	
	B. Translation difference	
	C. X and Y	
	D. Only a	
30)	The translation distances (dx, dy) is called as	C
	A. Translation vector	
	B. Shift vector	
	C. Both a and b	
	D. Neither a nor b	_
31)	In 2D-translation, a point (x, y) can move to the new position (x', y') by using th	B
	equation	
	A. x'=x+dx and y'=y+dx	
	B. x'=x+dx and y'=y+dy	
	C. X'=x+dy and Y'=y+dx	
	D. X'=x-dx and y'=y-dy	

32)	The tw	o-dimensional translation equation in the matrix form is	A
	A.	P'=P+T	
		P'=P-T	
		P'=P*T	
	D.	P'=p	
33)		is a rigid body transformation that moves objects without deformation.	\mathbf{C}
	A.	Rotation	
	B.	Scaling	
	C.	Translation	
	D.	All of the mentioned	
34)	A strai	ght line segment is translated by applying the transformation equation	A
	A.	P'=P+T	
	B.	Dx and Dy	
	C.	P'=P+P	
	D.	Only c	
35)		sic geometric transformations are	D
		Translation	
	B.	Rotation	
	C.	Scaling	
	D.	All of the mentioned	
36)	Which	is not polygon filling algorithm?	D
		Flood fill	
	B.	Scanline fill	
	C.	Boundary fill	
		Heap fill	
37)		dimensional rotation is applied to an object by	В
		Repositioning it along with straight line path	
		Repositioning it along with circular path	
		Any of the mentioned	
		None of the above	
38)	To ger	herate a rotation, we must specify	A
36)	_	* *	A
		Rotation angle Θ	
		Distances dx and dy Rotation distance	
20)	†	All of the mentioned	C
39)		re values for the rotation angle θ defines	C
		Counterclockwise rotations about the end points	
		Counterclockwise translation about the pivot point	
		Counterclockwise rotations about the pivot point	
	D.	Negative direction	

40)	The tw	ro-dimensional rotation equation in the matrix form is	В
		P'=P+T	
	-	P'=R*P	
		P'=P*P	
		P'=R+P	
41)		pse can also be rotated about its center coordinates by rotating	В
-		End points	
		Major and minor axes	
		Only a	
		None	
42)		unsformation that is used to alter the size of an object is	A
/		Scaling	
		Rotation	
		Translation	
		Reflection	
43)		ro-dimensional scaling equation in the matrix form is	В
,		P'=P+T	
		P'=S*P	
		P'=P*R	
		P'=R+S	
44)		caling factors values sx and sy are assigned to the same value then	В
		Uniform rotation is produced	
		Uniform scaling is produced	
		Scaling cannot be done	
		Scaling can be done or cannot be done	
45)		caling factors values sx and sy are assigned to unequal values then	C
		Uniform rotation is produced	
		Uniform scaling is produced	
		Differential scaling is produced	
		Scaling cannot be done	
46)	The m	atrix representation for scaling in homogeneous coordinates is	A
		P'=S*P	
	В.	P'=R*P	
	C.	P'=dx+dy	
	D.	P'=S*S	
47)	What i	s the use of homogeneous coordinates and matrix representation?	A
	A.	To treat all 3 transformations in a consistent way	
	B.	To scale	
	C.	To rotate	
	D.	To shear the object	

400		
48)	If point are expressed in homogeneous coordinates then the pair of (x, y) is	D
	represented as	
	A. (x', y', z')	
	B. (x, y, z)	
	C. (x', y', w)	
	D. (x', y', w)	
49)	For 2D transformation the value of third coordinate i.e. w=?	A
	A. 1	
	B. 0	
	C1	
	D. Any value	
50)	If two pure reflections about a line passing through the origin are applied	A
	successively the result is	
	A. Pure rotation	
	B. Quarter rotation	
	C. Half rotation	
	D. True reflection	
51)	Which of the following represents shearing?	D
	A. $(x, y) \rightarrow (x+a, y+b)$	
	B. $(x, y) \rightarrow (ax, by)$	
	C. $(x, y) \rightarrow (x \cos(\theta) + y \sin(\theta), -x \sin(\theta) + y \cos(\theta))$	
	D. $(x, y) \rightarrow (x+ay, y+bx)$	
52)	Which of this is compulsory for 2D reflection?	С
	A. Reflection plane.	
	B. Origin	
	C. Reflection axis	
	D. Co-ordinate axis.	
53)	A view is selected by specifying a sub-area of the picture area.	В
	A. half	
	B. total	
	C. full	
	D. quarter	
54)	Image formed by reflection through a plane mirror is	В
	A. of same size	
	B. same orientation	
	C. virtual	
	D. is at same distance from the mirror	
55)	Which of the following represents shearing?	D
	A. $(x, y) \rightarrow (x+a, y+b)$	
	B. $(x, y) \rightarrow (x + a, y + b)$	
	C. $(x, y) \rightarrow (x \cos(\theta) + y \sin(\theta), -x \sin(\theta) + y \cos(\theta))$	
	D. $(x, y) \rightarrow (x + ay, y + bx)$	
	$D \cdot (A, y) \cdot (A \cap A)$	

56)	Shearii	ng is also termed as	D
		Selecting	
	B.	Sorting	
	C.	Scaling	
	D.	Skewing	
57)	Any co	onvenient co-ordinate system or Cartesian co-ordinates which can be used to	D
	define	the picture is called	
	A.	spherical co-ordinates	
	В.	vector co-ordinates	
	C.	viewport co-ordinates	
	D.	world co-ordinates	
58)	Which	of the following co-ordinates are NOT used in 2d viewing transformation?	\mathbf{C}
	A.	modeling co-ordinates	
	B.	viewing co-ordinates	
	C.	vector co-ordinates	
	D.	device co-ordinates	
59)	The pro	ocess of elimination of parts of a scene outside a window or a viewport is	\mathbf{C}
	called		
	A.	cutting	
	B.	plucking	
	C.	clipping	
	D.	editing	
60)	Which	equation is correct about translation	B
		X' = Dx + X	
		Y' = Dx + Y	
	B.	X' = Dx + X	
		Y' = Dy + Y	
	C.	X' = Dy + X	
		Y' = Dy + Y	
	D.	X' = Dx + Y	
		Y' = Dy + X	
61)	Which	approaches are used for determine whether a particular point is inside or	c
	outside	e of polygon	
	A.	Even odd method	
	B.	Winding number method	
	C.	Both a &b	
		None of these	
62)	The sel	lection and separation of a part of text or image for further operation are	D
	called a	as	
	A.	Translation	
		shear	
		Rotation	
	D.	Clipping	

63)	Reflection about the line Y=X is equivalent to, followed by an	В
	anticlockwise rotation 90°.	
	A. Reflection about y-axis	
	B. Reflection about x-axis	
	C. Reflection about origin	
	D. None of these	
64)	Two consecutive rotation transformations are always	A
	A. Additive	
	B. Subtractive	
	C. Multiplicative	
	D. None of these	
65)	Reflection about the line Y=X is equivalent to, followed by a	В
	anticlockwise rotation 90°.	
	A. Reflection about y-axis	
	B. Reflection about x-axis	
	C. Reflection about origin	
	D. None of these	
66)	After performing Y-shear transformation we got A(2,5),B(4,11),C(2,7).If the	В
	constant value is 2 then original coordinates will be	
	A. A(2,5),B(4,11),C(2,7)	
	B. A(2,1),B(4,3),C(2,3)	
	C. $A(4,1),B(10,3),C(4,3)$	
	D. A(5,11),B(3,4),C(3,2)	
67)	If the resultant object is given along with the set of transformations applied on it,	D
	then to find the original object we	
	have to use	
	A. Affine transformation	
	B. Reverse transformation	
	C. Normal transformation	
	D. Inverse transformation	
68)	A point (x, y) becomes (-x, y) in, transformation.	В
	A. Reflection at X axis	
	B. Reflection at Y axis	
	C. Reflection at origin	
	D. Reflection about line Y=X	
69)	In Y-shear transformation point (x,y) becomes	C
	A. x+yb, xa+y	
	B. x+yb, y	
	C. x, xa+y	
	D. None of these	
70)	Is shear transformation can be formed by scaling and rotation	A
	A. TRUE	
	B. FALSE	
	C. Not always	
	D. None of these	

71)	Cohen	Sutherland algorithm is algorithm	В
		Polygon clipping	
		Line clipping	
	1	Point clipping	
	D.	None of these	
72)	Cyrus	Back algorithms is algorithm	C
	A.	Polygon clipping	
	B.	Point clipping	
	C.	Line clipping	
	D.	None of these	
73)	Which	of the following is polygon clipping algorithm	C
		Cohen Sutherland algorithm	
	1	Cyrus-beck algorithm	
	1	Sutherland Hodgman algorithm	
		None of these	
74)		with endpoints codes as 0000 and 0100 is?	A
	1	Partially invisible	
		Completely visible	
		Completely invisible	
		Trivially invisible	
75)		common clipping includes	D
		Curve clipping	
		Polygon clipping	
	1	Point clipping	
		All of the above	
76)		ocess of mapping a world window in world coordinates system to viewport	A
	are cal		
		Transformation Viewing	
		Viewport	
	1	Clipping window	
77)		Screen coordinates system	•
	w nich outside	approaches are used for determine whether a particular point is inside or	C
		polygon Even odd method	
		Winding number method Both a &b	
	1	None of these	
	E.	None of these	

78)	P' = R * P where	В
10)	x' $\cos(ang) - \sin(ang) = 0$	В
	$P = y'$ $R = \sin(ang) \cos(ang) = 0$ $p = y$	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	A. homogeneous Translation	
	B. homogeneous Rotation	
	C. Homogeneous Scaling	
	D. None of the above	
70)	Addition transformation are	C
19)	A. Shear	
	B. Reflection	
	C. both a &b	
	D. None of the above	
60)		A
	The rectangle portion of the interface window that defines where the image will	A
	actually appear are called	
	A. View port	
	B. Transformation viewing	
	C. Clipping window	
01)	D. Screen coordinate system	D
81)	Coordinates of window are knows as	B
	A. Screen coordinates	
	B. World coordinates	
	C. Device coordinates	
0.2)	D. Cartesian coordinates	
	For a point to be clipped, which of the following conditions must be satisfied by	C
	the point?	
	A. xwmin < x < xwmax	
	B. xwmin = x = xwmax	
	C. xwmin > x > xwmax	
0.0	D. ywmin = y = ywmax	_
83)	Which of the following is NOT a type of clipping algorithm used on the raster	D
	system?	
	A. line clipping	
	B. point clipping	
	C. area clipping	
	D. solid clipping	
84)	For a point to be clipped, which of the following conditions must be satisfied by	В
	the point?	
	A. ywmin < y < ywmax	
	B. ywmin > y > ywmax	
	C. $ywmin = y = ywmax$	
	D. xwmin < x < xwmax	

85)	Which type of clipping is used to clip character strings?	A
	A. text clipping	
	B. line clipping	
	C. sentence clipping	
	D. word clipping	
86)	What is the name of the space in which the image is displayed?	B
	A. World co-ordinate system	
	B. Screen co-ordinate system	
	C. World window	
	D. Interface window	
87)	What is the rectangle in the world defining the region that is to be displayed?	C
	A. World co-ordinate system	
	B. Screen co-ordinate system	
	C. World window	
	D. Interface window	
	The process of mapping a world window in World Coordinates to the Viewport is	A
	called Viewing transformation.	
	A. True	
	B. False	
	By changing the dimensions of the viewport, the and of	C
	the objects being displayed can be manipulated.	
	A. Number of pixels and image quality	
	B. X co-ordinate and Y co-ordinate	
	C. Size and proportions	
	D. All of these	
90)	Cohen-Sutherland clipping is an example of	C
	A. polygon clipping	
	B. text clipping	
	C. line clipping	
	D. curve clipping	_
91)	The Cohen-Sutherland algorithm divides the region into number of spaces.	D
	A. 8	
	B. 6	
	C. 7	
00)	D. 9	
	The Cohen–Sutherland algorithm can be only be used on a rectangular clip	A
	window.	
	A. True	
00	B. False	-
93)	The 4-bit code of top-left region of the window is	B
	A. 1001	
	B. 1100	
	C. 0101	
	D. 1010	

94)	If the logical AND of the endpoint codes is NOT zero, the line can be trivially	В
	accepted.	
	A. True	
	B. False	
95)	Liang-Barsky algorithm is a clipping algorithm.	C
	A. circle	
	B. text	
	C. line	
	D. pixel	
96)	The ideas of the Liang-Barsky algorithm are the same with which algorithm?	A
	A. Cyrus Beck algorithm	
	B. Liam-Chopsky algorithm	
	C. Cohen Sutherland algorithm	
	D. All have the same	
97)	The Liang-Barsky algorithm is more efficient than the Cohen Sutherland	A
	algorithm.	
	A. True	
	B. False	
98)	Which type of arithmetic is used in Liang Barsky algorithm?	В
	A. simple arithmetic operations	
	B. floating point arithmetic	
	C. fixed point arithmetic	
	D. logarithmic operations	
99)	. How many edges of the clipping are/is present in 2D?	D
	A. 1	
	B. 2	
	C. 3	
	D. 4	
100)	The scale factor of viewport transformation for x co-ordinate is	A
	A. $Sx = (svmax - svmin)/(swmax - swmin)$	
	B. $Sx = (svmax - svmin)/(swmax + swmin)$	
	C. $Sx = (svmin - svmax)/(swmax - swmin)$	
	D. $Sx = (svmax + svmin)/(swmax - swmin)$	

Question Bank of	ANS
CA 7.1 Design and Analysis of Algorithms(254701)	11110
u are given a knapsack that can carry a maximum weight of 60. There 4 items with weights {20, 30, 40, 70} and values {70, 80, 90, 200}. at is the maximum value of the items you can carry using the	
apsack? 160 200 70	a
e 0-1 Knapsack problem can be solved using Greedy algorithm. Frue alse	b
nen a top-down approach of dynamic programming is applied to a blem, it usually Decreases both, the time complexity and the space complexity Decreases the time complexity and increases the space complexity	b
ncreases the time complexity and decreases the space complexity ncreases both, the time complexity and the space complexity	
at is a subset sum problem? inding a subset of a set that has sum of elements equal to a given nber	b
checking for the presence of a subset that has sum of elements equal to iven number and printing true or false based on the result inding the sum of elements present in a set inding the sum of all the subsets of a set	
ich of the following is not true about subset sum problem? he recursive solution has a time complexity of O(2n) here is no known solution that takes polynomial time he recursive solution is slower than dynamic programming solution he dynamic programming solution has a time complexity of O(n log n)	d
ich of the following algorithm can be used to solve the Hamiltonian path blem efficiently? branch and bound terative improvement divide and conquer greedy algorithm	a

ich of the following is false about Prim's algorithm?	b
t is a greedy algorithm	
t constructs MST by selecting edges in increasing order of their weights	
t never accepts cycles in the MST	
t can be implemented using the Fibonacci heap	
pose the correct answer for the followingstatements:	
theory of NP–completeness provides a method of obtaining a polynomial	
e for NPalgorithms.	
NP-complete problem areNP-Hard.	a
is FALSE and II is TRUE	
is TRUE and II is FALSE	
oth are TRUE	
Both are FALSE	
e upper bound on the time complexity of the nondeterministic sorting	
orithm is	
(n)	a
$(n \log n)$	
(1)	
$(\log n)$	
cursive algorithms are basedon	
Divideand conquer approach	
Top-down approach	С
Sottom-up approach	
Hierarchical approach	
w do you determine the cost of a spanningtree?	
y the sum of the costs of the edges of the tree	
y the sum of the costs of the edges and vertices of the tree	a
y the sum of the costs of the vertices of the tree	
By the sum of the costs of the edges of the graph	
me the node which has been generated but none of its children nodes have	
n generated in state space tree of backtrackingmethod.	
ead node	b
ive node	
-Node	
tateNode	

w many nodes are there in a full state space tree with n = 6? 4 3 2	С
m the following chose the one which belongs to the algorithm paradigm er than to which others from the following belongsto. Inimum & Maximum problem. Inapsack problem election problem. Merge sort.	b
at is the type of the algorithm used in solving the 4 Queensproblem? reedy ynamic ranch and Bound acktracking.	d
tedy job scheduling with deadlines algorithms' complexity is defined as (N) (n log n) (n2log n) (n log n)	a
is the minimum number of steps that can executed for the enparameters Average case Time complexity Vorstcase	d

sorting a file of size n by straight selection sort, the number of comparisons	
de in the first pass is	
	b
1-1	
(n-1)/2	
Vone of the above	
knapsack is based on method	
reedy method	b
ynamic programming	υ
ranch and bound	
ivide andconquer	
ffmancodes are theapplications of with minimal weighted external path	
gth obtained by an optimalset.	
ST	c
MST	
inary tree	
Veighted Graph	
is a round trip path along n edges of G that visits every vertex once and	
rns to its startingposition.	
IST	d
Aultistage Graph	
SP	
HamiltonianCycle	
following numbers are inserted into an empty binary search tree in the	
en order: 10, 1, 3, 5, 15, 12, 16. What is the height of the binary search tree	
height is the maximum distance of a leaf node from theroot)?	
,	b
	1

G be a simple graph with 20 vertices and 100 edges. The size of the nimum vertex cover of G is 8. Then, the size of the maximum independent of G is 2 Less than 8 More than 12	a
Priority-Queue is implemented as a Max-Heap. Initially, it has 5 elements. e level- order traversal of the heap is given below: 10, 8,5,3,2 Two new ments 1 and 7 are inserted in the heap in that order. The level-order traversal he heap after the insertion of the elements is 0,8,7,5,3,2,1 10,8,7,2,3,1,5 10,8,7,1,2,3,5 0,8,7,3,2,1,5	D
nich of the following problems should be solved using dynamic gramming? Mergesort Binary search Longest common subsequence Quicksort	С
ich of the following is true about Huffman Coding. uffman coding may become lossy in some cases luffman Codes may not be optimal lossless codes in some cases Huffman coding, no code is prefix of any other code. I of the above	С
ich of the following problems is NOT solved using dynamic gramming? 0/1 knapsack problem Matrix chain multiplication problem Edit distance problem Fractional knapsack problem	d

pological sort can be applied to which of the following graphs?	d
Undirected Cyclic Graphs	
Directed Cyclic Graphs	
Undirected Acyclic Graphs	
Directed Acyclic Graphs	4
most of the cases, topological sort starts from a node which has	d
Maximum Degree	
Minimum Degree	
Any degree	
Zero Degree	
is the first step in solving the problem	В
Understanding the Problem	
Identify the Problem	
Evaluate the Solution	
None of these	
quick sort, the number of partitions into which the file of size n is	В
ded by a selected record is	
n _.	
n - 1	
2	
None of the above	_
amples of O(1) algorithms are	D
Multiplying two numbers.	
assigning some value to a variable	
displaying some integer on console	
All of the above	
amples of O(n²) algorithms are	C
Adding of two Matrices	
Initializing all elements of matrix by zero	
Both A and B	
Neither A nor B	

a Max heap the largest key is at	A
the root	
a leaf	
a node	
None of the above	
neap sort the input is arranged in the form of a	Α
heap	
tree	
queue	
None of the above	
opose we need to sort a list of employee records in ascending order, ng the social security number (a 9-digit number) as the key (i.e., sort records by social security number). If we need to guarantee that the ning time will be no worse than n log n, which sorting methods could use?	A
mergesort	
quicksort	
insertion sort	
Either mergesort or quicksort	
he Union/Find algorithm, the ranks of the nodes on a path will	a
rease monotonically from?	
eaf to root	
root to node	
root to leaf	
eft subtree to right subtree	
velling salesman problem is an example of	b
Dynamic Algorithm	
Greedy Algorithm	
Recursive Approach	
Divide & Conquer	
ich of the following is an example of dynamic programming approach?	d
Fibonacci Series	
Fower of Hanoi	
Dijkstra Shortest Path	
All of the above	

ich of the following uses memoization?	С
Greedy approach	
Divide and conquer approach	
Dynamic programming approach	
None of the above	
kstra's algorithm is based on which paradigm?	Α
Greedy paradigm	
Backtracking paradigm	
Dynamic Programming paradigm	
Divide and Conquer paradigm	
ich of the problems cannot be solved by backtracking method?	d
n-queen problem	
subset sum problem	
namiltonian circuit problem	
ravelling salesman problem	
. a	
cktracking algorithm is implemented by constructing a tree of choices	a
ed as?	
State-space tree	
State-chart tree	
Node tree	
Backtracking tree	
w many solutions are there for 8 queens on 8*8 board?	С
12	
91	
92	
93	
hromatic number of a line graph is 4 then the chromatic index of the	С
ph will be?	
1	
nformation insufficient	

ich of the following algorithms solves the all pair shortest path problem?	b
Diskstra's algorithm	
Floyd algorithm	
rim's algorithm	
Narshall's algorithm raph can be represented as an	
	a
Linked list Structure	
nion	
Queue	
which of the following class does a CNF-satisfiability problem belong?	С
NP class	C
P class	
NP complete	
NP hard	
ich of the following methods can be used to solve the Knapsack	d
blem?	
Brute force algorithm	
Recursion	
Dynamic programming	
Brute force, Recursion and Dynamic Programming	
ctional knapsack problem is also known as	b
0/1 knapsack problem	
Continuous knapsack problem Divisible knapsack problem	
Non continuous knapsack problem	
ne complexity of fractional knapsack problem is	a
O(n log n)	а
O(n)	
$O(n^2)$	
O(nW)	
ster's theorem is used for?	a
solving recurrences	
solving iterative relations	
analysing loops	
calculating the time complexity of any code	

assen's algorithm is a/an algorithm. Non- recursive Recursive Approximation	b
Accurate assen's Matrix Algorithm was proposed by	a
Volker Strassen Andrew Strassen Victor Jan	
√irginia Williams	
nsider the two matrices P and Q which are 10 x 20 and 20 x 30 matrices pectively. What is the number of multiplications required to multiply the matrices? 10*20 20*30 10*30 10*20*30	d
nsider the matrices P, Q and R which are 10 x 20, 20 x 30 and 30 x 40 trices respectively. What is the minimum number of multiplications uired to multiply the three matrices? 18000 12000 24000 32000	a
ich of the following is not an application of topological sorting? Finding prerequisite of a task Finding Deadlock in an Operating System Finding Cycle in a graph Ordered Statistics	d
nan wants to go different places in the world. He has listed them down But there are some places where he wants to visit before some other ces. What application of graph can he use to determine that? Depth First Search Breadth First Search Topological Sorting Dijkstra's Shortest path algorithm	С

nsider the strings "PQRSTPQRS" and "PRATPBRQRPS". What is the gth of the longest common subsequence?	c
gti of the longest common subsequence?	
Inch and bound is a	a
problem solving technique	
data structure	
sorting algorithm	
ype of tree	
ich of the following is not a branch and bound strategy to generate	d
nches?	
LIFO branch and bound	
FIFO branch and bound	
Lowest cost branch and bound	
Highest cost branch and bound	
pose the correct statement from the following.	c
ranch and bound is more efficient than backtracking	
pranch and bound is not suitable where a greedy algorithm is not blicable	
branch and bound divides a problem into at least 2 new restricted sub	
packtracking divides a problem into at least 2 new restricted sub	
blems	
is the class of decision problems that can be solved by non-	A
erministic polynomial algorithms?	
NP "	
Hard	
Complete	

en an array arr = {45,77,89,90,94,99,100} and key = 100; What are the values(corresponding array elements) generated in the first and cond iterations? 30 and 99 30 and 100 39 and 94 34 and 99	
at is the advantage of recursive approach than an iterative approach? Consumes less memory Less code and easy to implement Consumes more memory More code has to be written	
ich of the given options provides the increasing order of asymptotic nplexity of functions f1, f2, f3 and f4? n) = 2^n f2(n) = n^(3/2) f3(n) = nLogn f4(n) = n^(Logn) 3, f2, f1, f4 2, f3, f1, f4 2, f3, f4, f1 f3, f2, f4, f1	
ps of Divide and Conquer approach ivide, Conquer and Combine Combine, Conquer and Divide Combine, Divide and Conquer Divide, Combine and Conquer	
e complexity of searching an element from a set of n elements using Binary rch algorithm is (n log n) D(log n) D(n2) In D(n)	
he development of dynamic programming the value of an optimal solution omputed in op up fashion Bottom up fashion Correct	

In any way

e number of operations in Matrix multiplications M1, M2, M3, M4 and M5	
sizes 5X10, 10X100, 100X2, 2X20 and 20X50	
330	
4600	
900	
2890	
ich case of Master's theorem is applicable in the recurrence relation	
=0.5*T(n/2)+1/n?	
ase 3	
Case 1	
Master's theorem is not applicable	
Case 2	
is a condition that is always true at a particular point in an algorithm.	
sertion	
constant	
exception	
nvariant	
ision Pattern of Problems in Divide and Conquer approach	
erative	
Recursive	
Parallel	
Random	
a problem can be broken into subproblems which are reused several	
es, the problem possesses property.	
Overlapping subproblems	
Optimal substructure	
Memorization	
Greedy	
ich of the following sorting algorithms does not have a worst case running	
e of O(n2)?	
uick sort	
Merge sort	
nsertion sort	
Pubble cort	1

running time of quick sort depends on the selection of.	_
election of pivot elements t	
Number of input	
Tumber of passes	
Arrangements of the elements	
ne Complexity of Optimal binary search tree.	
(logn)	
O(n)	
O (n!)	
O(n*n)	
a Structure used for the Merge Sort	
wo Pointers	
Two pointers and N Extra Arrays	
N/2 pointers and N/2 Extra Arrays	
Two Pointers and an Extra Array	
optimal solution to a problem is a combination of optimal solutions to its	
problems. This is known as	
rincipleof Duality	
rinciple of Feasibility	
rinciple of Optimality	
rinciple of Dynamicity.	
roblem L is NP-complete iff L is NP-hard and	
\approx NP	
. α NP	
, ε NP	
L = NP	
at would be the cost value for any answering node of a sub tree with root 'r'	
ng branch-bound algorithm?	
laximum	
Ainimum	
ptimal	
verage	

nsalgorithm is based on method	
ivide and conquer method	
reedy method	
Dynamic programming	
Branch and bound	
w many number of comparisons are required in insertion sort to sort a file if	
file is sorted in reverse order?	
2	
1	
I-1	
7/2	
w many number of comparisons are required in insertion sort to sort a file if	
file is already sorted?	
2	
-1	
N/2	
e worst-case time complexity of Quick Sort is	
(n2)	
$O(\log n)$	
O(n)	
O(n logn)	
per bound is denotedas	
)	
)	
e worst-case time complexity of Merge Sort is	
(n2)	
$O(\log n)$	
(n)	
O(n logn)	

algorithm like Quick sort does not require extra memory for carrying out	
sorting procedure. This technique is called	
-place	
table	
nstable	
in-partition	
ich of the following sorting procedures is the slowest?	
nick sort	
eap sort	
hell sort	
ubble sort	
o main measures for the efficiency of an algorithm are	
rocessor and memory	
omplexity and capacity	
me and space	
ata and space	
e time factor when determining the efficiency of algorithm is measured by	
counting microseconds	
ounting the number of key operations	
ounting the number of statements	
ounting the kilobytes of algorithm	
ich of the following case does not exist in complexity theory?	
pest case	
orst case	
verage case	
ull case	
e concept of order Big O is important because	
can be used to decide the best algorithm that solves a given problem	
determines the maximum size of a problem that can be solved in a given	
ount of time	
is the lower bound of the growth rate of algorithm	
oth a and b	

e recurrence relation capturing the optimal execution time of the Towers of	
noi problem with n discs is	
(n) = 2T(n-2) + 2	
T(n) = 2T(n-1) + n	
S(n) = 2T(n/2) + 1	
S(n) = 2T(n-1) + 1	
implement Dijkstra's shortest path algorithm on unweighted graphs so that	
uns in linear time, the data structure to be used is:	
Stack	
Неар	
Queue	
Binary Tree	
·	
sort which compares adjacent elements in a list and switches where	
essary is	
sertion sort	
eap sort	
uick sort	
ubble sort	
Which design strategy stops the execution when it find the solution	
erwise starts the problem from top	
ack tracking	
ranch and Bound	
Divide and conquer	
Dynamic programming	
analysis of algorithm, approximate relationship between the size of the job	
the amount of work required to do is expressed by using	
entral tendency	
ifferential equation	
Order of execution	
Order of magnitude	
adth first search	
cans each incident node along with its children.	
cans all incident edges before moving to other node.	
same as backtracking	
cans all the nodes in random order.	

ich method of traversal does not use stack to hold nodes that are waiting to processed?	
ept First	
-search	
Breadth first	
Back-tracking	

Sr.	Question Bank of	ANS
No.	CA 7.2Automata Theory and Computability(254702)	
1)	All the regular languages can have one or more of the following descriptions:	d)
	i) DFA ii) NFA iii) e-NFA iv) Regular Expressions	
	Which of the following are correct?	
	a) i, ii, iv	
	b) i, ii, iii	
	c) i, iv	
	d) i, ii, iii, iv	
2)	A turing machine is a a) real machine b) abstract machine c) hypothetical machine d) more than one option is correct	d)
3)	A turing machine operates over: a) finite memory tape b) infinite memory tape c) depends on the algorithm d) none of the mentioned	b)
4)	Which of the functions are not performed by the turing machine after reading a symbol? a) writes the symbol b) moves the tape one cell left/right c) proceeds with next instruction or halts d) none of the mentioned	d)
5)	Which of the problems were not answered when the turing machine was invented? a) Does a machine exists that can determine whether any arbitrary machine on its tape is circular. b) Does a machine exists that can determine whether any arbitrary machine on its tape is ever prints a symbol c) Hilbert Entscheidungs problem d) None of the mentioned	d)

6)	The ability for a system of instructions to simulate a Turing Machine is called a) Turing Completeness b) Simulation c) Turing Halting d) None of the mentioned	a)
7)	Which of the problems are unsolvable? a) Halting problem b) Boolean Satisfiability problem c) Both (a) and (b) d) None of the mentioned	c)
8)	If d is not defined on the current state and the current tape symbol, then the machine a) does not halts b) halts c) goes into loop forever d) none of the mentioned	b)
9)	A language L is said to be if there is a turing machine M such that L(M)=L and M halts at every point. a) Turing acceptable b) decidable c) undecidable d) none of the mentioned	b)
10)	The language accepted by a turing machine is calleda) Recursive Ennumerable b) Recursive c) Both (a) and (b) d) None of the mentioned	c)
11)	Recursive languages are also known as: a) decidable b) undecidable c) sometimes decidable d) none of the mentioned	a)
12)	Let G be a grammar: S->AB e, A->a, B->b Is the given grammar in CNF? a) Yes b) No	a)

13)	Given grammar G: (1)S->AS	a)
	$(2)S \rightarrow AAS$	
	(3)A->SA	
	(4)A->aa	
	Which of the following productions denies the format of Chomsky Normal Form?	
	a) 2,4	
	b) 1,3	
	c) 1, 2, 3, 4	
	d) 2, 3, 4	
	Which of the technique can be used to prove that a language is non regular?	b.
	a) Ardens theorem	
	b) Pumping Lemma	
	c) Ogden's Lemma	
	d) None of the mentioned	
15)	If L is DFA-regular, L' is	b.
	a) Non regular	
	b) DFA-regular	
	c) Non-finite	
	d) None of the mentioned	
	All the regular languages can have one or more of the following descriptions:	d.
	i) DFA ii) NFA iii) e-NFA iv) Regular Expressions	
	Which of the following are correct?	
	a) i, ii, iv	
	b) i, ii, iii	
	c) i, iv	
	d) i, ii, iii, iv	

	L is a regular Language if and only If the set of classes of IL is finite.	a.
	a) Equivalence	
	b) Reflexive	
	c) Myhill	
	d) Nerode	
18)	According to the rice's theorem, If P is a non trivial property, Lp is:	c.
	a) infinite	
	b) decidable	
	c) undecidable	
	d) none of the mentioned	
	Given grammar: S->aA A->a A->B B-> A B->bb Which of the following is the production of B after simplification by removal of unit productions? a) A b) bb c) aA d) A bb	b)
	RR* can be expressed in which of the forms: a) R+	a.
	b) R-	
	c) R+ U R-	
	d) R	
	Let G be a grammar. When the production in G satisfy certain restrictions, then G is said to be in a) restricted form b) parsed form c) normal form d) all of the mentioned	c)

The number of leaves in a parse tree with expression E*(E) where * and () are operators a) 5 b) 2 c) 4 d) 3	a) 5
A grammar with more than one parse tree is called: a) Unambiguous b) Ambiguous c) Regular d) None of the mentioned	b)
If L1 and L2 are regular sets then intersection of these two will be a) Regular b) Non Regular c) Recursive d) Non Recursive	a.
Which of the following is false for a grammar G in Chomsky Normal Form: a) G has no useless symbols b) G has no unit productions c) G has no epsilon productions d) None of the mentioned	d)
A CFG is ambiguous if a) It has more than one rightmost derivations b) It has more than one leftmost derivations c) No parse tree can be generated for the CFG d) None of the mentioned	b)
A null production can be referred to as: a) String b) Symbol c) Word d) All of the mentioned	a) String

28)	Which of the following is incorrect according to rice theorem?	С.
	Let S be a set of language hat is non trivial:	
	a) there exists a TM that recognizes the language in S	
	b) there exists a TM that recognizes the language not in S	
	c) both (a) and (b)	
	d) none of the mentioned	
29)	The format: A->aB refers to which of the following? a) Chomsky Normal Form b) Greibach Normal Form c) Backus Naur Form d) None of the mentioned	b)
30)	Which of the production rule can be accepted by Chomsky grammar? a) A->BC b) A->a c) S->e d) All of the mentioned	d)
31)	The entity which generate Language is termed as:	c.
	a) Automata	
	b) Tokens	
	c) Grammar	
	d) Data	
32)	Which among the following cannot be accepted by a regular grammar? a) L is a set of numbers divisible by 2 b) L is a set of binary complement c) L is a set of string with odd number of 0 d) L is a set of 0n1n	d)
33)	The minimum number of productions required to produce a language consisting of palindrome strings over ∑={a,b} is a) 3 b) 7 c) 5 d) 6	c) 5
34)	Which of the following statement is correct? a) All Regular grammar are context free but not vice versa b) All context free grammar are regular grammar but not vice versa c) Regular grammar and context free grammar are the same entity d) None of the mentioned	a

35)	Are ambiguous grammar context free? a) Yes	a)
36)	b) No A->aA a b	b)
	The number of steps to form aab: a) 2 b) 3 c) 4 d) 5	
	Which of the following the given language belongs to? L={ambmcm m>=1} a) Context free language b) Regular language c) Both (a) and (b) d) None of the mentioned	d)
38)	Which among the following is the correct option for the given grammar? G->X111 G1,X->X0 00 a) {0a1b a=2,b=3} b) {0a1b a=1,b=5} c) {0a1b a=b} d) More than one of the mentioned is correct	a)
39)	A grammar $G=(V, T, P, S)$ is if every production taken one of the two forms:	b)
	B->aC	
	B->a	
	a) Ambiguous	
	b) Regular	
	c) Non Regular	
	d) None of the mentioned	
40)	Which of the following statement is false in context of tree terminology? a) Root with no children is called a leaf b) A node can have three children c) Root has no parent d) Trees are collection of nodes, with a parent child relationship	a)

41)	"CFG" stands for	b.
	a)Context Free Graph	
	b)Context Free Grammar	
	c)Context Finite Graph	
	d)Context Finite Grammar	
	While applying Pumping lemma over a language, we consider a string w that belong to L and fragment it into parts. a) 2 b) 5 c) 3 d) 6	c)
43)	If we select a string w such that w∈L, and w=xyz. Which of the following portions cannot be an empty string?	b)
	a) x	
	b) y	
	c) z	
	d) all of the mentioned	
44)	There exists a language L. We define a string w such that w∈L and w=xyz and w >=n for some constant integer n. What can be the maximum length of the substring xy i.e. xy <=? a) n b) y c) x d) none of the mentioned	a)
	Answer in accordance to the third and last statement in pumping lemma: For all xyiz ∈L a) i>0 b) i<0 c) i<=0 d) i>=0	d)
46)	Let w be a string and fragmented by three variable x, y, and z as per pumping lemma. What does these variables represent? a) string count b) string c) both (a) and (b) d) none of the mentioned	a)

	Which kind of proof is used to prove the regularity of a language? a) Proof by contradiction b) Direct proof c) Proof by induction d) None of the mentioned	a.
	A turing machine operates over: a) finite memory tape b) infinite memory tape c) depends on the algorithm	b.
49)	d) none of the mentioned The entity which generate Language is termed as: a) Automata b) Tokens c) Grammar d) Data	С
	Production Rule: aAb->agb belongs to which of the following category? a) Regular Language b) Context free Language c) Context Sensitive Language d) Recursively Ennumerable Language	c
	The Grammar can be defined as: G=(V, ∑, p, S) In the given definition, what does S represents? a) Accepting State b) Starting Variable c) Sensitive Grammar d) None of these	b
	States are called the halt states. a)ACCEPT and REJECT b)ACCEPT and READ c)ACCEPT AND START	a.
	d)ACCEPT AND WRITE	

53)	Reverse of a DFA can be formed by a) using PDA b) making final state as non-final c) making final as starting state and starting state as final state d) None of the mentioned	c)
54)	Concatenation of R with Φ outputs: a) R b) Φ c) R.Φ d) None of the mentioned	b)
55)	Simplify the following regular expression: \(\epsilon+1*(011) *(1*(011) *) *\) a) (1+011) *\) b) (1*(011) *) c) (1+(011) *) *\) d) (1011) *	a
56)	P, O, R be regular expression over ∑, P is not ε, then R=Q + RP has a unique solution: a) Q*P b) QP* c) Q*P* d) (P*O*) *	b
57)	Arden's theorem is true for: a) More than one initial states b) Null transitions c) Non-null transitions d) None of the mentioned	С
58)	The difference between number of states with regular expression (a + b) and (a + b) * is: a) 1 b) 2 c) 3 d) 0	a

The PDA is called non-deterministic PDA when there are more than one out going edges from state	c.
a)START or READ	
b)POP or REJECT	
c)READ or POP	
d)PUSH or POP	
Regular Expression denote precisely the of Regular Language. a) Class b) Power Set c) Super Set d) None of the mentioned	a
Relate the following statement: Statement: All sufficiently long words in a regular language can have a middle section of words repeated a number of times to produce a new word which also lies within the same language. a) Turing Machine b) Pumping Lemma c) Arden's theorem d) None of the mentioned	b
Can a DFA recognize a palindrome number? a) Yes b) No c) Yes, with input alphabet as ∑* d) Can't be determined	b.
Which of the following is not an example of finite state machine system? a) Control Mechanism of an elevator b) Combinational Locks c) Traffic Lights d) Digital Watches	d.

	Given: L= $\{x \in \Sigma = \{0,1\} \mid x=0 \text{n1n for n} >=1\}$; Can there be a DFA possible for the language? a) Yes b) No	b.
65)	The symbols that can't be replaced by anything are called	b.
	a)Productions	0.
	b)Terminals	
	c)Non-terminals	
	d)All of above	
	Transition function maps.	d.
	a) $\Sigma * Q \rightarrow \Sigma$	
	b) Q * Q -> Σ c) Σ * Σ -> Q	
	d) Q * Σ -> Q	
67)	Number of states require to accept string ends with 10.	a.
0,,	a) 3	u.
	b) 2	
	c) 1	
	d) can't be represented.	
68)	The grammatical rules are often called	a.
	a)Productions	
	b)Terminals	
	c)Non-terminals	
	d)None of given	
	The language generated by is called Context Free Language (CFL).	c.
	a)FA	
	b)TG	
	c)CFG	
	d)TGT	
	u) 1 0 1	

The production of the form no terminal $\rightarrow \Lambda$ is said to be null production.	a.
a)TRUE	
b)FALSE	
The basic limitation of finite automata is that a) It can't remember arbitrary large amount of information. b) It sometimes recognize grammar that are not regular. c) It sometimes fails to recognize regular grammar. d) All of the mentioned	a.
The productions of the form nonterminal → one nonterminal, is called a)Null production b)Unit production c)Null able production d)None of given	b.
Which of the following is a correct statement? a) Moore machine has no accepting states b) Mealy machine has accepting states c) We can convert Mealy to Moore but not vice versa d) All of the mentioned	a.
In mealy machine, the O/P depends upon? a) State b) Previous State c) State and Input d) Only Input	c.
Which of the given are correct? a) Moore machine has 6-tuples b) Mealy machine has 6-tuples c) Both Mealy and Moore has 6-tuples d) None of the mentioned	c.
The major difference between Mealy and Moore machine is about: a) Output Variations b) Input Variations c) Both d) None of the mentioned	a.

77)	Mealy and Moore machine can be categorized as:	b.
	a) Inducers	
	b) Transducers	
	c) Turing Machines	
	d) Linearly Bounder Automata	
	Which one among the following is true?	d.
	A mealy machine	
	a) produces a language	
	b) produces a grammar	
	c) can be converted to NFA	
	d) has less circuit delays	
79)	CNF is stands for	c.
	a)Context Normal Form	
	b)Complete Normal Form	
	c)Chomsky Normal Form	
	d)Compared Null Form	
80)	What does the following figure most correctly represents?	c.
	F	
	 a) Final state with loop x b) Transitional state with loop x c) Initial state as well as final state with loop x d) Insufficient Data 	

81)	Which of the following will not be accepted by the following DFA? Initial State Dumping State	a.
	a) ababaabaa b) abbbaa c) abbbaabb d) abbaabbaa	
92)		0
02)	"One language can be expressed by more than one FA". This statement is	a.
	a)True	
	b)False	
	c)Sometimes true & sometimes false	
	d)None of these	
83)	The part of an FA, where the input string is placed before it is run, is called	c.
	a)State	
	b)Transition	
	c)Input Tape	
	d)Output Tape	
84)	Which of the operations are eligible in PDA? a) Push b) Delete c) Insert d) Find	a

85)	A string is accepted by a PDA when a) Stack is empty b) Acceptance state c) Both (a) and (b) d) None of the mentioned	c.
86)	The following move of a PDA is on the basis of: a) Present state b) Input Symbol c) Both (a) and (b) d) None of the mentioned	c.
87)	Which of the following was not a part of Chomsky hierarchy? a) Context sensitive grammar b) Unrestricted grammar c) Recursive grammar d) None of the mentioned	c.
88)	Assume the R is a relation on a set A, aRb is partially ordered such that a and b are a) reflexive b) transitive c) symmetric d) reflexive and transitive	d.
89)	Which of the following is a not a part of 5-tuple finite automata? a) Input alphabet b) Transition function c) Output Alphabet d) Initial State	c.
90)	Moore Machine is an application of: a) Finite automata without input b) Finite automata with output c) Non- Finite automata with output d) None of the mentioned	b.
91)	In Moore machine, output is produced over the change of: a) states b) transitions c) Both d) None of the mentioned	a.

92)	Myhill Nerode theorem is consisting of the followings,	
	a)L partitions Σinto distinct classes.	d.
	b)If L is regular then, L generates finite number of classes.	
	c)If L generates finite number of classes then L is regular.	
	d)All of above	
93)	Consider the following two languages:	
		c.
	$L1 = \{x \mid \text{for some y with } y = 2^ x , xy \in L \text{ and } L \text{ is regular language} \}$	
	$L2 = \{x \mid \text{for some y such that } x = y , xy \in L \text{ and } L \text{ is regular language}\}$	
	Which one of the following is correct?	
	a. Only L1 is regular language	
	b. Only L2 is regular language	
	c. Both L1 and L2 are regular languages	
	d. Both L1 and L2 are not regular languages Pushdown automata can recognize language generated by	c.
	a. Only context free grammar	
	b. Only regular grammar	
	c. Context free grammar or regular grammar	
	d. Only context sensitive grammar	

95)	To obtain a string of n Terminals from a given Chomsky normal form grammar, the number of productions to be used is:	a.
	a. 2n-1	
	b. 2n	
	c. n+1	
	d. n^2	
96)	A turing machine that is able to simulate other turing machines:	b.
	a) Nested Turing machines	
	b) Universal Turing machine	
	c) Counter machine	
	d) None of the mentioned	
97)	Context sensitive language can be recognized by a:	d.
	a. Finite state machine	
	b. Deterministic finite automata	
	c. Non-deterministic finite automata	
	d. Linear bounded automata	
98)	The set A={ $0^n 1^n 2^n \mid n=1, 2, 3, \dots$ } is an example of a grammar that is:	a.
	a. Context sensitive	
	b. Context free	
	c. Regular	
	d. None of the above	
99)	Which of the following is not a regular expression? a) [(a+b)*-(aa+bb)]* b) [(0+1)-(0b+a1)*(a+b)]* c) (01+11+10)* d) (1+2+0)*(1+2)*	b.

100 Following context free grammar	a
$S \rightarrow aB \mid bA$	
$A \longrightarrow b \mid aS \mid bAA$	
$B \rightarrow b \mid bS \mid aBB$	
generates strings of terminals that have	
a) equal number of a's and b's	
b) odd number of a's and odd number b's	
c) even number of a's and even number of b's	
d) d. odd number of a's and even number of a's	

	Question Bank of	ANS
	CA 7.3 Artificial Intelligence(254703)	
1)	What is the main task of a problem-solving agent? a) Solve the given problem and reach to goal b) To find out which sequence of action will get it to the goal state c) All of the mentioned d) None of the mentioned	С
2)	Using logic to represent and reason we can represent knowledge about the world with facts and rules. a) True b) False	A
3)	Uncertainty arises in the wumpus world because the agent's sensors give only a) Full & Global information b) Partial & Global Information c) Partial & local Information d) Full & local information	С
4)	A Hybrid Bayesian network contains a) Both discrete and continuous variables b) Only Discrete variables c) Only Discontinuous variable d) Both Discrete and Discontinuous variable	À
5)	If a hypothesis says it should be positive, but in fact it is negative, we call it a) A consistent hypothesis b) A false negative hypothesis c) A false positive hypothesis d) A specialized hypothesis	С
6)	The primitives in probabilistic reasoning are random variables. a) True b) False	A
7)	Which is true for Decision theory? a) Decision Theory = Probability theory + utility theory b) Decision Theory = Inference theory + utility theory c) Decision Theory = Uncertainty + utility theory d) Decision Theory = Probability theory + preference	С

8)	A constructive approach in which no commitment is made unless it is necessary to do so is a) Least commitment approach b) Most commitment approach c) Nonlinear planning d) Opportunistic planning	A
9)	What is the extraction of the meaning of utterance? a) Syntactic b) Semantic c) Pragmatic d) None of the mentione	В
10)	What is meant by compositional semantics? a) Determining the meaning b) Logical connectives c) Semantics d) None of the mentioned	A
11)	What can't be done in the semantic interpretation? a) Logical term b) Complete logical sentence c) Both Logical term & Complete logical sentence d) None of the mentioned	С
12)	which is used to mediate between syntax and semantics? a) Form b) Intermediate form c) Grammer d) All of the mentioned	В
13)	What kind of interpretation is done by adding context-dependant information? a) Semantic b) Syntactic c) Pragmatic d) None of the mentioned	С
14)	How many issues are available in describing degree of belief? a) 1 b) 2 c) 3 d) 4	В

What is used for much shilter the own contained	
What is used for probability theory sentences?	
a) Conditional logic b) Logic	C
c) Extension of propositional logic	
d) None of the mentioned	
Where does the dependance of experience is reflected in prior probability sentences?	
a) Syntactic distinction	À
b) Semantic distinction	A
c) Both Syntactic & Semantic distinction	
d) None of the mentioned	
Where does the degree of belief is applied?	
a) Propositions	
b) Literals	A
c) Variables	
d) Statements	
How many formal languages are used for stating propositions?	
a) 1	
18) b) 2	В
c) 3	
d) 4	
What is the basic element of a language?	
a) Literal	
19) b) Variable	C
c) Random variable	
d) All of the mentioned	
Which is the complete specification of the state of the world?	
a) Atomic event	
20) b) Complex event	A
c) Simple event	
d) None of the mentioned	
Which variable cannot be written in entire distribution as a table?	
a) Discrete	
21) b) Continuous	В
c) Both Discrete & Continuous	
d) None of the mentioned	
b) Time of the mentioned	

22)	What is meant by probability density function? a) Probability distributions b) Continuous variable c) Discrete variable	D
23)	d) Probability distributions for Continuous variables How many terms are required for building a bayes model? a) 1 b) 2 c) 3 d) 4	С
24)	What is needed to make probabilistic systems feasible in the world? a) Reliability b) Crucial robustness c) Feasibility d) None of the mentioned	В
25)	What does the bayesian network provides? a) Complete description of the domain b) Partial description of the domain c) Complete description of the problem d) None of the mentioned	A
26)	To which does the local structure is associated? a) Hybrid b) Dependant c) Linear d) None of the mentioned	С
27)	What is the consequence between a node and its predecessors while creating bayesian network? a) Functionally dependent b) Dependant c) Conditionally independent d) Both Conditionally dependant & Dependant	С
28)	The values of the set membership is represented by a) Discrete Set b) Degree of truth c) Probabilities d) Both Degree of truth & Probabilities	В

	are algorithms that learn from their more complex environments (hence	
	eco) to generalize, approximate and simplify solution logic.	
	a) Fuzzy Relational DB	C
	b) Ecorithms	
	c) Fuzzy Set	
	d) None of the mentioned	
	What will take place as the agent observes its interactions with the world?	
	a) Learning	
30)	b) Hearing	A
	c) Perceiving	
	d) Speech	
	Which is used for utility functions in game playing algorithm?	
	a) Linear polynomial	
31)	b) Weighted polynomial	D
	c) Polynomial	
	d) Linear weighted polynomial	
	What takes input as an object described by a set of attributes?	
	a) Tree	
32)	b) Graph	D
	c) Decision graph	
	d) Decision tree	
	How the decision tree reaches its decision?	
	a) Single test	
33)	b) Two test	C
	c) Sequence of test	
	d) No test	
	Which algorithm are in more similar to backward chaining algorithm?	
	a) Depth-first search algorithm	
34)	b) Breadth-first search algorithm	A
	c) Hill-climbing search algorithm	
	d) All of the mentioned	
	What form of negation does the prolog allows?	
	a) Negation as failure	
35)	b) Proposition	A
	c) Substitution	
	d) Negation as success	

	Which is omitted in prolog unification algorithm?	
	a) Variable check	
36)	b) Occur check	В
	c) Proposition check	
	d) Both Occur & Proposition check	
	There exists two way to infer using semantic networks in which knowledge is represented	
	as Frames.	
37)	1) Intersection Search	Α
37)	2) Inheritance Search	Λ
	a) True	
	b) False	
	How many functions are available in the unification and lifting process?	
	a) 1	
38)	b) 2	D
	c) 3	
	d) 4	
	How the buckets are stored in predicate indexing?	
	a) Lists	
39)	b) Stack	C
	c) Hashes	
	d) None of the mentioned	
	Rational agent is the one who always does the right thing.	
40)	a) True	A
	b) False	
	What is Artificial intelligence?	
	a) Putting your intelligence into Computer	
41)	b) Programming with your own intelligence	C
	c) Making a Machine intelligent	
	d) Putting more memory into Computer	
	Artificial Intelligence has its expansion in the following application.	
	a) Planning and Scheduling	
42)	b) Game Playing	D
	c) Robotics	
	d) All of the above	

	The characteristics of the computer system capable of thinking, reasoning and learning is	
	known is	
	a) machine intelligence	C
	b) human intelligence	
	c) artificial intelligence	
	d) virtual intelligence	
	Which of the following search belongs to totally ordered plan search?	
	a) Forward state-space search	
44)	b) Hill-climbing search	A
	c) Depth-first search	
	d) Breadth-first search	
	Which cannot be taken as advantage for totally ordered plan search?	
	a) Composition	
45)	b) State search	C
	c) Problem decomposition	
	d) None of the mentioned	
	In which of the following situations might a blind search be acceptable?	
	a) real-life situation	
46)	b) complex game	C
	c) small search space	
	d) all of the mentioned	
	Which search method takes less memory?	
	a) Depth-First Search	
47)	b) Breadth-First search	A
	c) Optimal search	
	d) Linear Search	
	A heuristic is a way of trying	
	a) To discover something or an idea embedded in a program	
48)	b) To search and measure how far a node in a search tree seems to be from a goal	D
	c) To compare two nodes in a search tree to see if one is better than the other is	
	d) All of the mentioned	
	Which of the following, is a component of an expert system?	
	a) inference engine	
49)	b) knowledge base	D
	c) user interface	
	d) all of the mentioned	

	What is state space?	
50)	a) The whole problem	D
	b) Your Definition to a problem	D
	c) Problem you design	
	d) Representing your problem with variable and parameter	
	A search algorithm takes as an input and returns as an output.	
	a) Input, output	
51)	b) Problem, solution	В
	c) Solution, problem	
	d) Parameters, sequence of actions	
	A problem in a search space is defined by one of these state.	
	a) Initial state	
52	b) Last state	A
32)	c) Intermediate state	
	d) All of the mentioned	
	The Set of actions for a problem in a state space is formulated by a	
	a) Intermediate states	
53)	b) Initial state	C
	c) Successor function, which takes current action and returns next immediate state	
	d) None of the mentioned	
	The process of removing detail from a given state representation is called	
	a) Extraction	
54	b) Abstraction	В
	c) Information Retrieval	
	d) Mining of data	
	What are taken into account of state-space search?	
	a) Postconditions	
55	b) Preconditions	D
	c) Effects	
	d) Both Preconditions & Effects	
	Fuzzy Set theory defines fuzzy operators. Choose the fuzzy operators from the following.	
56)	a) AND b) OR	D
	c) NOT	
	d) All of the mentioned	

c) Entropy d) All of the mentioned There exist only two types of quantifiers, Universal Quantification and Existential	D A
c) Entropy d) All of the mentioned There exist only two types of quantifiers, Universal Quantification and Existential Quantification. a) True b) False	
c) Entropy d) All of the mentioned There exist only two types of quantifiers, Universal Quantification and Existential Quantification. a) True b) False	A
There exist only two types of quantifiers, Universal Quantification and Existential Quantification. a) True b) False	A
Quantification. a) True b) False	A
a) True b) False	A
a) True b) False	11
· ·	
A is used to demonstrate, on a purely syntactic basis, that one formula is a	
logical consequence of another formula)	
a) Deductive Systems	A
b) Inductive Systems	11
c) Reasoning with Knowledge Based Systems	
d) Search Based Systems	
First Order Logic is also known as	
a) First Order Predicate Calculus	
b) Quantification Theory	D
c) Lower Order Calculus	
d) All of the mentioned	
Which is used to compute the truth of any sentence?	
a) Semantics of propositional logic	
b) Alpha-beta pruning	A
c) First-order logic	
d) Both Semantics of propositional logic & Alpha-beta pruning	
Which are needed to compute the logical inference algorithm?	
a) Logical equivalence	
b) Validity	D
c) Satisfiability	
d) All of the mentioned	
Which form is called as a conjunction of disjunction of literals?	
a) Conjunctive normal form	
b) Disjunctive normal form	A
c) Normal form	
d) All of the mentioned	

	Which is also called single inference rule?	
	a) Reference	
	b) Resolution	В
	c) Reform	
	d) None of the mentioned	
	What is the condition of literals in variables?	
	a) Existentially quantified	
	b) Universally quantified	В
	c) Quantified	
	d) None of the mentioned	
	What is meant by factoring?	
	a) Removal of redundant variable	
	b) Removal of redundant literal	В
	c) Addition of redundant literal	
	d) Addition of redundant variable	
	When the resolution is called as refutation-complete?	
	a) Sentence is satisfiable	
67)	b) Sentence is unsatisfiable	В
	c) Sentence remains the same	
	d) None of the mentioned	
	Which closely resembles propositional definite clause?	
	a) Resolution	
68)	b) Inference	D
	c) Conjunction	
	d) First-order definite clauses	
	The room temperature is hot. Here the hot (use of linguistic variable is used) can be	
	represented by	
69)	a) Fuzzy Set	A
	b) Crisp Set	
	c) Fuzzy & Crisp Set	
	d) None of the mentioned	
	What is the form of Fuzzy logic?	
	a) Two-valued logic	
70)	b) Crisp set logic	C
	c) Many-valued logic	
	d) Binary set logic	

How the bayesian network can be used to answer any query? a) Full distribution b) Joint distribution	I
c) Partial distribution	
d) All of the mentioned	
Where does the bayes rule can be used?	
a) Solving queries	
b) Increasing complexity	I
c) Decreasing complexity	
d) Answering probabilistic query	
Which algorithm takes two sentences and returns a unifier?	
a) Inference	
b) Hill-climbing search	I
c) Depth-first search	
d) Unify algorithm	
Which process makes different logical expression looks identical?	
a) Lifting	
(b) Unification	I
c) Inference process	
d) None of the mentioned	
Frames in artificial intelligence is derived from semantic nets.	
75) a) True	A
b) False	
Which of the following elements constitutes the frame structure?	
a) Facts or Data	
b) Procedures and default values	A
c) Frame names	
d) Frame reference in hierarchy	
Semantic Network represents	
a) Syntactic relation between concepts	
b) Semantic relations between concepts	I
c) All of the mentioned	
d) None of the mentioned	
Graph used to represent semantic network is	
a) Undirected graph	
78) b) Directed graph	I
c) Directed Acyclic graph (DAG)	
d) Directed complete graph	

	What are Semantic Networks?	
70)	a) A way of representing knowledge	
19)	b) Data Structure	Α
	c) Data Type	
	d) None of the mentioned	
	A Horn clause is a clause with positive literal.	
	a) At least one	
80)	b) At most one	В
	c) None	
	d) All	
	Forward chaining systems are where as backward chaining systems are	
81)	a) Goal-driven, goal-driven	C
01)	b) Goal-driven, data-driven	
	c) Data-driven, goal-driven	
	d) Data-driven, data-driven	
	In a backward chaining system you start with the initial facts, and keep using the rules to	
92)	draw new conclusions (or take certain actions) given those facts.	В
62)	a) True	Б
	b) False	
	Translate the following statement into FOL.	
	"For every a, if a is a PhD student, then a has a master degree"	
92)	a) ∀ a PhD(a) -> Master(a)	٨
63)	b) \(\preceq \text{a PhD(a) -> Master(a)} \)	A
	c) A is true, B is true	
	d) A is false, B is false	
	Which among the following could the Existential instantiation of $\exists x \text{ Crown}(x) \land$	
	OnHead(x, Johnny)?	
0.4)	a) Crown(John) ^ OnHead(John, Jonny)	
84)	b) Crown(y) ^ OnHead(y, y, x)	Α
	c) Crown(x) ^ OnHead(x, Jonny)	
	d) None of the mentioned	
	Which of the following is not the style of inference?	
	a) Forward Chaining	
85)	b) Backward Chaining	D
,	c) Resolution Refutation	
	d) Modus Pones	
	u) would rolles	

	An inference algorithm that derives only entailed sentences is called sound or truth-	
86)	preserving.	A
	a) True	
	b) False	
	Which is not a property of representation of knowledge?	
07)	a) Representational Verification	
87)	b) Representational Adequacy	Α
	c) Inferential Adequacy	
	d) Inferential Efficiency	
	' $\alpha \models \beta$ '(to mean that the sentence α entails the sentence β) if and only if, in every model	
	in which α is β is also	
88)	a) True, true	A
00)	b) True, false	7.1
	c) False, true	
	d) False, false	
	A) Knowledge base (KB) is consists of set of statements.	
	B) Inference is deriving a new sentence from the KB)	
	Choose the correct option.	
89)	a) A is true, B is true	A
	b) A is false, B is false	
	c) A is true, B is false	
	d) A is false, B is true	
	What is the term used for describing the judgmental or commonsense part of problem	
	solving?	
00)	a) Heuristic	
90)	b) Critical	Α
	c) Value based	
	d) Analytical	
	What was originally called the "imitation game" by its creator?	
91)	a)The Turing Test b)LISP	A
/		
	c)The Logic Theorist	
	d)Cybernetics	
	A)M. turing developed a technique for determining whether a computer could or could	
	not demonstrate the artificial Intelligence,, Presently, this technique is called	
92)	a)Turing Test	A
	b)Algorithm	
	c)Boolean Algebra	
	d)Logarithm	

	How is Fuzzy Logic different from conventional control methods?	
93)	a)IF and THEN Approach b)FOR Approach	Α
/		
	c)WHILE Approach	
	d)DO Approach	
	Where does the degree of belief are applied?	
94)	a)Propositions	A
) 34)	b)Literals	A
	c)Variables	
	d)Statements	
	Which variable cannot be written in entire distribution as a table?	
0.5)	a)Discrete	
95)	b)Continuous	В
	c)Both a & b	
	d)None of the mentioned	
	Where does the Bayes rule can be used?	
	a)Solving queries	
96)	b)Increasing complexity	D
	c)Decreasing complexity	
	d)Answering probabilistic query	
	What is the process of associating an FOL expression with a phrase?	
	a)Interpretation	
97)	b)Augument reality	C
	c)Semantic interpretation	
	d)Augument interpretation	
	What is the major component/components for measuring the performance of problem	
	solving?	
067	a) Completeness	D
90)	b) Optimality	D
	c) Time and Space complexity	
	d) All of the mentioned	
	A production rule consists of	
	a) A set of Rule	
99)	b) A sequence of steps	C
	c) Set of Rule & sequence of steps	
	d) Arbitrary representation to problem	
	a) Molitary representation to problem	

c) Random approach	100)	Which is the best way to go for Game playing problem? a) Linear approach b) Heuristic approach (Some knowledge is stored) c) Random approach	В
--------------------	------	---	---

.....

	Question Bank of	ANS
	CA 7.4 Advanced Java Programming(254704)	
1)	When the ejbRemove method encounters a system problem ,it should throw	
	A. javax.ejb.NoSuchEntityException	В
	B. java.ejb.EJBException	
	C. java.ejb.RemoveException	
	D. javax.ejb.DuplicateKeyException	
2)	Select the right method to read data from a file.	
	A) get()	
	B) readFileInput()	D
	C) scan()	
	D) read()	
3)	Which JSP block is used define class-wide variables and functions in the generated class file?	
	A. scriplets	
	B. expression	D
	C. element	
	D. declarations	
4)	Which of the following is not an implicit object?	
	A. date	А
	B. request	
	C. out	
	D. pagecontext	

5)	Which of these exceptions is thrown in cases when the file specified for writing is not found?	
	A) IOException	_
	B) FileException	С
	C) FileNotFoundException	
	D) FileInputException	
6)	An Enterprise JavaBeans can be deployed in	
	A. J2EE server	D
	B. Weblogic	
	C. Web sphere	
	D. All of the above	
7)	Mapping files (*.hbm.xml) is used	
	A. to map persistent objects to a relational database	
	B. to configure the hibernate services (connection driver class, connection URL)	Α
	C. to configure the hibernate services (connection username, connection password, dialect etc)	
	D. All the above	
8)	Which of the following is used to rollback a JDBC transaction?	
	A) rollback()	
	B) rollforward()	Α
	C) deleteTransaction()	
	D) RemoveTransaction()	
I	1	1

	Consider the following HTML page code: < html >< body >< a href='/servlet/HelloServlet' >POST < /a >< /body >< /html > Which method of HelloServlet will be invoked when the hyperlink is clicked? A. doGet B. doPost C. doHref D. servicePost	Α
10)	To determine the behaviour of the beans in an application , we make use of	
	A. Java.beans.SimpleBeanInfoB. Java.beans.IntrospectorC. Java.awt.*D. None of the above	В
11)	Which of the elements defined within the taglib element of taglib descriptor file are required	
	A. uri B. jsp-version C. display-name D. None	В
12)	Name the element within the tag element that defines the tag class that implements the functionality of tag	
	Which element of tag defines the tag class that implements the tag's functionality?	
	A. tag	D
	B. tag-uri	
	C. tag-name	
	D. tag-class	

13)	What does setAutoCommit(false) do?	
	A) commits transaction after each query	
	B) explicitly commits transaction	С
	C) does not commit transaction automatically after each query	
	D) never commits transaction	
14)	provides the ability to directly insert java into an HTML document	
	A. declarations	В
	B. scriptlets	J
	C. directives	
	D. None of the above	
15)	beans would survive a server crash	
	A. Stateful session beans	
	B. Stateless session beans	С
	C. Entity beans	
	D. Message-driven beans	
16)	Which of the following statements are true about locating or using the home interface of a session bean	
	A. Once acquired, the home interface can be used only once	D
	B. Each instance of a session bean has its own EJBHome object	D
	C. The InitialContext must be narrowed before it can be used to get the home interface	
	D. None of the above	

17)	Which of the following statements about Java Threads is correct?	
	A) Java threads don't allow parts of a program to be executed in parallel	
	B) Java is a single-threaded language	D
	C) Java's garbage collector runs as a high priority thread	
	D) Ready, running and sleeping are three states that a thread can be in during its life cycle	
18)	Which of the following statements are correct about a session bean whose class contains the following method? public void ejbCreate (String id)	
	A. It is a Stateless session bean	В
	B. The home interface of the bean has the method create (String id) declared in it	
	C. The component interface ofthe bean has the method ejbCreate (String id) declared in it	
	D. None of the above	
19)	What are valid methods for HttpSessionListener interface	
	A. sessionRemoved	В
	B. sessionDestroyed	Ь
	C. sessionReCreated	
	D. sessionReplaced	
20)	Sites using HTTPS that is HTTP plus SSL(Secure Sockets Layer) can be identified by	
	A. There is no way one can detect that site uses HTTPS protocol	В
	B. The URL of the website begins with https: instead of http	D
	C. The URL of the website begins with ssl: instead of http	
	D. The URL of the website begins with shttp	

21)	An object which implements the interfaces java.rmi.Remote and java.io.Serializable is being sent as a method parameter from one JVM to another. How would it be sent by RMI?	
	A. RMI will serialize the object and send it	В
	B. RMI will send the stub of the object	
	C. Either A or B Throws an exception	
	D. None	
	In the JMS, message producers and message consumers are created by which of the following objects?	
	A. Connection Factories	D
	B. Message Listeners	
	C. Connections	
	D. Sessions	
23)	Which of the following operators is used to generate instance of an exception which can be thrown using throw?	
	A) thrown	
	B) alloc	D
	C) malloc	
	D) new	
24)	To author a Session bean which of the following classes are needed?	
	A. A Home interface, A Remote Interface, a class that implements Enterprisebean interface and a PrimaryKey class	
	B. A Home interface, A Remote Interface and a class that implements the SessionBean interface	В
	C. A Remote Interface and a class that implements the SessionBean interface	
	D. A Home interface, A Remote Interface and a class that implements the EnterpriseBean interface	

25)	Which of the following statement is false regarding the exceptions in JDBC	
	A. SQLWarning objects are a subclass of SQLException that deal with database access warnings B. Warnings stop the execution of an application, as exceptions do; they simply alert the user that something did not happen as planned C. Connection object has a getWarning() method in it D. Statement and ResultSet objects have getWarning() methods in it	В
26)	JDBC-ODBC Bridge does not work with Microsoft J++, because it does not	
	support	
	A. Java Native Interface	А
	B. JNDI	
	C. JINI	
	D. None of above	
27)	In order to run JSP is required.	
	A) Mail Server	
	B) Applet viewer	С
	C) Java Web Server	
	D) Database connection	
28)	Prepared Statement object in JDBC used to execute queries.	
	A) Executable	
	B) Simple	D
	C) High level	
	D) Parameterized	

29)	Name the class that includes the getSession method that is used to get the HttpSession object	
	A. HttpServletRequest	Α
	B. HttpServletResponse	
	C. SessionContext	
	D. SessionConfig	
30)	The EJB timer service is used for timing notifications. It can be used with	
	A. CMP entity beans	С
	B. both BMP and CMP entity beans	C
	C. message-driven beans	
	D. B and C	
31)	In JDBC imports all Java classes concerned with database connectivity.	
	A) javax.sql.*	
	B) java.mysql.*	С
	C) java.sql.*	
	D) com.*	
32)	Which of the following classes can catch all exceptions which cannot be caught?	
	A) RuntimeException	
	B) Error	В
	C) Exception	
	D) ParentException	
33)	How can I use JDBC to create a database?	
	A. Include create=true at end of JDBC URL	_
	B. Execute 'CREATE DATABASE jGuru' SQL statement	D
	C. Execute 'STRSQL' and 'CREATE COLLECTION jGuru' SQL statements	
	D. Database creation is DBMS specific	

34)	JSP embeds in in	
	A) Servlet, HTML	
	B) HTML, Java	D
	C) HTML, Servlet	
	D) Java, HTML	
35)	Which page directive attribute allows you to take care of possible thread conflicts?	
	A. session	D
	B. extends	D
	C. buffer	
	D. IsThreadSafe	
36)	In the Model View Controller architecture of an enterprise application, which of the	
	following can be 'best suited' as the Controller?	
	A. Servlets	
	B. Java Server Page	D
	C. Session Bean	
	D. Option 1 and Option 3	
37)		
37)	function is used to add elements in the vector at particular position	
	A) add()	
	B) addElement()	В
	C) AddElement()	
	D) set()	
38)	How constructor can be used for a servlet?	
	A) Initialization	
	B) Constructor function	С
	C) Initialization and Constructor function	
	D) Setup() method	

39)	What is the difference between servlets and applets?	
	i. Servlets execute on Server; Applets execute on browser	
	ii. Servlets have no GUI; Applet has GUI	
	iii. Servlets creates static web pages; Applets creates dynamic web pages	
	iv. Servlets can handle only a single request; Applet can handle multiple requests	В
	A) i, ii, iii are correct	
	B) i, ii are correct	
	C) i, iii are correct	
	D) i, ii, iii, iv are correct	
40)	The and classes are abstract classes that support reading and writing of byte streams.	
	A) reader, writer	
	B) inputstream, outputstream	В
	C) objectinputstream, objectoutputstream	
	D) none	
41)	Which of these is the interface of legacy?	
	A) Map	
	B) Enumeration	В
	C) HashMap	
	D) Hashtable	
42)	Which method is used to get three-letter abbreviation for locale's country in servlets?	
	A) Request.getISO3Country()	_
	B) Locale.getISO3Country()	Α
	C) Response.getISO3Country()	
	D) Local.retrieveISO3Country()	

43)	Which of the following code retrieves the body of the request as binary data?	
	A) DataInputStream data = new InputStream()	
	B) DataInputStream data = response.getInputStream()	С
	C) DataInputStream data = request.getInputStream()	
	D) DataInputStream data = request.fetchInputStream()	
44)	When destroy() method of a filter is called?	
	A) The destroy() method is called only once at the end of the life cycle of a filter	
	B) The destroy() method is called after the filter has executed doFilter method	Α
	C) The destroy() method is called only once at the begining of the life cycle of a filter	
	D) The destroyer() method is called after the filter has executed	
45)	Java support RMI. What does this RMI stand for?	
	A) Random Memory Interface	
	B) Remote Method Invocation	В
	C) Random Method Invocation	
	D) Remote Memory Interface	
46)	How is the dynamic interception of requests and responses to transform the information done?	
	A) servlet container	
	B) servlet config	D
	C) servlet context	
	D) servlet filter	
47)	Which of these are legacy classes?	
	A) Stack	
	B) Hashtable	D
	C) Vector	
	D) All of the mentioned	

A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions	48)	Which are the session tracking techniques?	
iii. Using response object iv. Using hidden fields v. Using cookies vi. Using servlet object A) i, ii, iii, vi B) i, ii, iv, v C) i, vi, iii, v D) i, ii, iii, v 49) Which of the following is used for session migration? A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		i. URL rewriting	
iv. Using hidden fields v. Using cookies vi. Using servlet object A) i, ii, iii, vi B) i, ii, iv, v C) i, vi, iii, v D) i, ii, iii, v 49) Which of the following is used for session migration? A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		ii. Using session object	
v. Using cookies vi. Using servlet object A) i, ii, iii, vi B) i, ii, iv, v C) i, vi, iii, v D) i, ii, iii, v 49) Which of the following is used for session migration? A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		iii. Using response object	
vi. Using servlet object A) i, ii, iii, vi B) i, ii, iiv, v C) i, vi, iii, v D) i, ii, iii, v 49) Which of the following is used for session migration? A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		iv. Using hidden fields	
A) i, ii, iii, vi B) i, ii, iv, v C) i, vi, iii, v D) i, ii, iii, v 49) Which of the following is used for session migration? A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		v. Using cookies	В
B) i, ii, iv, v C) i, vi, iii, v D) i, ii, iii, v 49) Which of the following is used for session migration? A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields D C) SSL sessions		vi. Using servlet object	
C) i, vi, iii, v D) i, ii, iii, v 49) Which of the following is used for session migration? A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		A) i, ii, iii, vi	
D) i, ii, iii, v 49) Which of the following is used for session migration? A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields D C) SSL sessions		B) i, ii, iv, v	
49) Which of the following is used for session migration? A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		C) i, vi, iii, v	
A) Persisting the session in database B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		D) i, ii, iii, v	
B) URL rewriting C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions	49)	Which of the following is used for session migration?	
C) Create new database connection D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		A) Persisting the session in database	
D) Kill session from multiple sessions 50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		B) URL rewriting	Α
50) Which of the below is not a session tracking method? A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		C) Create new database connection	
A) URL rewriting B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		D) Kill session from multiple sessions	
B) History C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions	50)	Which of the below is not a session tracking method?	
C) Cookies D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions D		A) URL rewriting	
D) SSL sessions 51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		B) History	В
51) Which of the following is stored at client side? A) URL rewriting B) Hidden form fields C) SSL sessions		C) Cookies	
A) URL rewriting B) Hidden form fields C) SSL sessions		D) SSL sessions	
B) Hidden form fields C) SSL sessions	51)	Which of the following is stored at client side?	
C) SSL sessions		A) URL rewriting	
		B) Hidden form fields	D
D) Cookies		C) SSL sessions	
,		D) Cookies	

52)	Which of the following leads to high network traffic?	
	A) URL rewriting	
	B) Hidden form fields	Α
	C) SSL sessions	
	D) Cookies	
53)	Which of the following is not true about session?	
	A) All users connect to the same session	
	B) All users have same session variable	С
	C) Default timeout value for session variable is 20 minutes	
	D) New session cannot be created for a new user	
54)	Which of these methods is used to insert value and its key?	
	A) put()	
	B) set()	Α
	C) insertElement()	
	D) addElement()	
55)	Which function is used to do session invalidate?	
	A) session.discontinue()	
	B) session.falsify()	D
	C) session.disconnect()	
	D) session.invalidate()	
56)	Which method creates unique fields in the HTML which are not shown to the user?	
	A) User authentication	
	B) URL writing	С
	C) HTML Hidden field	
	D) HTML invisible field	

57)	Which object is used by spring for authentication?	
	A) ContextHolder	
	B) SecurityHolder	D
	C) AnonymousHolder	
	D) SecurityContextHolder	
58)	Which page directive should be used in JSP to generate a PDF page?	
	A) contentType	
	B) generatePdf	Α
	C) typePDF	
	D) contentPDF	
59)	tag must be used to send data from JSP to included JSP.	
	A) Using <%jsp:page> tag	
	B) Using <%jsp:useBean> tag	D
	C) Using <%jsp:import> tag	
	D) Using <%jsp:param> tag	
60)	Application is instance of which class?	
	A) javax.servlet.Application	
	B) javax.servlet.HttpContext	D
	C) javax.servlet.Context	
	D) javax.servlet.ServletContext	
61)	How many JDBC driver types does Sun define?	
	A) One	
	B) Two	D
	C) Three	
	D) Four	

A) Initialization, Cleanup, Compilation, Execution B) Initialization, Compilation, Cleanup, Execution C) Compilation, Initialization, Execution, Cleanup D) Cleanup, Compilation, Initialization, Execution 63) Which JDBC driver Type(s) can be used in either applet or servlet code? A) Both Type 1 and Type 2 B) Both Type 1 and Type 3 C) Both Type 3 and Type 4 D) Type 4 only	
C) Compilation, Initialization, Execution, Cleanup D) Cleanup, Compilation, Initialization, Execution 63) Which JDBC driver Type(s) can be used in either applet or servlet code? A) Both Type 1 and Type 2 B) Both Type 1 and Type 3 C) Both Type 3 and Type 4	
D) Cleanup, Compilation, Initialization, Execution 63) Which JDBC driver Type(s) can be used in either applet or servlet code? A) Both Type 1 and Type 2 B) Both Type 1 and Type 3 C) Both Type 3 and Type 4	
63) Which JDBC driver Type(s) can be used in either applet or servlet code? A) Both Type 1 and Type 2 B) Both Type 1 and Type 3 C) Both Type 3 and Type 4	
A) Both Type 1 and Type 2 B) Both Type 1 and Type 3 C) Both Type 3 and Type 4	
B) Both Type 1 and Type 3 C) Both Type 3 and Type 4	
C) Both Type 3 and Type 4	
D) Type 4 only	
2) 1) Fe . omj	
64) request is the object ofclass.	
A) HttpServletRequest	
B) HttpRequest A	
C) Request	
D) ServletRequest	
65) Which is not a directive?	
A) include	
B) page	;
C) export	
D) useBean	
66) What is not true of a Java bean?	
A) There are no public instance variables.	
B) All persistent values are accessed using getxxx and setxxx methods.	
C) It may have many constructors as necessary.	
D) All of the above are true of a Java bean.	

A) <%@directive%> B) <%!directive%> C) <%directive%> D) <%=directive%>	Α
C) <%directive%>	A
D) <%=directive%>	
68)is used to include the file in JSP?	
A) jsp:include	
B) jsp:getProperty	Α
C) jsp:setProperty	
D) jsp:plugin	
69) Which of the below does not implement Map interface?	
A) HashMap	
B) Hashtable	D
C) EnumMap	
D) Vector	
70) A JSP is transformed into a(n):	
A) Java applet	
B) Java servlet	В
C) Either 1 or 2 above	
D) Neither 1 nor 2 above	
71) "out" is implicit object of which class?	
A) javax.servlet.jsp.PrintWriter	
B) javax.servlet.jsp.SessionWriter	D
C) javax.servlet.jsp.SessionPrinter	
D) javax.servlet.jsp.JspWriter	

72)	What programming language(s) or scripting language(s) does Java Server Pages (JSP) support?	
	A) VBScript only	
	B) Jscript only	С
	C) Java only	
	D) All of the above are supported	
73)	What temporarily redirects response to the browser?	
	A) <jsp:forward></jsp:forward>	
	B) <%@directive%>	С
	C) response.sendRedirect(URL)	
	D) response.setRedirect(URL)	
74)	Which tag is used to set a value of a JavaBean?	
	A) <c:set></c:set>	
	B) <c:param></c:param>	Α
	C) <c:choose></c:choose>	
	D) <c:forward></c:forward>	
75)	In JSP is not a directive.	
	A) page directive	
	B) command directive	В
	C) taglib directive	
	D) include directive	
76)	Which of the below is not a javascript framework for UI?	
	A) Vaadin	
	B) AngularJS	D
	C) KendoUI	
	D) Springcore	

77)	Which of these is a process of writing the state of an object to a byte stream?	
	A) Serialization	
	B) Externalization	Α
	C) File Filtering	
	D) All of the mentioned	
78)	Which of these processes occur automatically by the java runtime system?	
	A) Serialization	
	B) Garbage collection	Α
	C) File Filtering	
	D) All of the mentioned	
79)	DataOutput interface is extended by	
	A) ObjectOutput	
	B) Externalization	Α
	C) Serializable	
	D) ObjectInput	
80)	Which of these is a method of ObjectOutput interface used to finalize the output state so that any buffers are cleared?	
	A) clear()	
	B) flush()	В
	C) fflush()	
	D) close()	
81)	What servlet processor was developed by Apache Foundation and Sun?	
	A) Apache Tomcat	
	B) Apache Web server	Α
	C) Sun servlet processor	
	D) None of the above is correct.	

82)	What type of protocol is HTTP?	
	A) stateless	
	B) stateful	Α
	C) transfer protocol	
	D) information protocol	
83)	Which of these standard collection classes implements a dynamic array?	
	A) AbstractList	
	B) LinkedList	С
	C) ArrayList	
	D) AbstractSet	
84)	Which of these classes can generate an array which can increase and decrease in size automatically?	
	A) ArrayList()	
	B) DynamicList()	Α
	C) LinkedList()	
	D) MallocList()	
85)	How can we take input text from user in HTML page?	
	A) input tag	
	B) inoutBufferedReader tag	Α
	C) meta tag	
	D) scanner tag	
86)	Which of these methods can be used to increase the capacity of ArrayList object manually?	
	A) Capacity()	
	B) increaseCapacity()	D
	C) increasecapacity()	
	D) ensureCapacity()	
<u> </u>	I .	

87)	function of ArrayList class is used to getcurrent size.	
	A) index()	
	B) length()	С
	C) size()	
	D) capacity()	
88)	How can we connect to database in a web application?	
	A) oracle sql developer	
	B) toad	С
	C) JDBC template	
	D) mysql	
89)	What is invoked via HTTP on the Web server computer when it responds to requests from a user's Web browser?	
	A) A Java application	
	B) A Java applet	С
	C) A Java servlet	
	D) None of the above is correct.	
90)	Which of these keywords is not a part of exception handling?	
	A) try	
	B) finally	С
	C) thrown	
	D) catch	
91)	keyword need be utilized to monitor an exception.	
	A) throw	
	B) finally	С
	C) try	
	D) catch	
•	1	

92)	Which of these keywords must be used to handle the exception thrown by try block in some rational manner? A) try	
		D
	B) finally	
	C) throw	
	D) catch	
93)	How are java web applications packaged?	
	A) jar	
	B) war	D
	C) zip	
	D) both jar and war	
94)	To manually throw an exceptionkeyword is used.	
	A) throw	
	B) finally	Α
	C) try	
	D) catch	
95)	What is multithreaded programming?	
	A) It's a process in which two different processes run simultaneously	
	B) It's a process in which two or more parts of same process run simultaneously	
	C) It's a process in which many different process are able to access same information	В
	D) It's a process in which a single process can access information from many sources	
96)	Thread priority in Java is?	
	A) Integer	
	B) Float	Α
	C) double	
	D) long	

97)	In the web application, servlet resides in	
	A) client	
	B) applet	D
	C) tomcat	
	D) server	
98)	How many copies of a JSP page can be in memory at a time?	
	A) One	
	B) Two	Α
	C) Three	
	D) Unlimited	
99)	What is true about threading?	
	A) run() method calls start() method and runs the code	
	B) run() method creates new thread	D
	C) run() method can be called directly without start() method being called	
	D) start() method creates new thread and calls code written in run() method	
100)	Which of the following is a correct constructor for thread?	
	A) Thread(Runnable a, String str)	
	B) Thread(int priority)	Α
	C) Thread(Runnable a, int priority)	
	D) Thread(Runnable a, ThreadGroup t)	

	Question Bank of	ANS
	CA-7.5 ADBMS(254705)	
1)	In a clustering index, the index record contains the search-key value and a pointer to the first data record with that search-key value and the rest of the records will be in the sequential pointers. A) SparseB) DenseC) StraightD) Continuous	В
2)	A key that consists of more than one attribute to uniquely identify rows in a table is called A) Composite key B) Candidate key C) Primary key D) Foreign key	A
3)	Which one is true about clustered index? A) Clustered index is not associated with table B) Clustered index is built by default on unique key columns C) Clustered index is not built on unique key columns D) None of the mentioned	В
4)	When the the backup site takes over processing and becomes the primary. A) Secondary fails B) Backup recovers C) Primary fails D) None of the mentioned	С
5)	In hierarchical model, data is organized into A) logical structure B) physical structure C) tree like structure D) none of them	С
6)	FDBS stands for A) Federated database system B) Featured database system C) First database system D) none of the above	A
7)	A heterogeneous distributed database is which of the following? A) The same DBMS is used at each location and data are not distributed across all nodes. B) The same DBMS is used at each location and data are distributed across all nodes. C) A different DBMS is used at each location and data are not distributed across all nodes. D) A different DBMS is used at each location and data are distributed across all nodes.	D

3)	DDL stands for	A
	A) data definition language	
	B) data description language	
	C) data definition list	
	D) none of the above	
9)	WAL stands for	В
	A) Write After Logging	
	B) Write Ahead Logging	
	C) Watch After Logging	
	D) none of the above	
	Theoperation performs a set union of two "similarly structured" tables A) Union B) Join	A
	C) Product D) Intersect	
	Using which language can a user request information from a database? A) Query B) Relational C) Structural D) Compiler	A
	In Oracle, the end of the transaction is recorded in the	С
	For each attribute of a relation, there is a set of permitted values, called the of that attribute. A) Set B) Relation C) Domain D) Schema	С
	DBA is responsible for A) Account creation B) Privilege granting C) Privilege revocation D) All of the above	D

15)	What is DES ?	В
	A) Data Entity standard	
	B) Data Encryption Standard	
	C) Direct Encryption Standard	
16)	D) All of the above Which of the following is /ore Security Issues?	D
16)	Which of the following is /are Security Issues?	D
	A) Legal and ethical issues B) Policy issues	
	C) System-related issues D) All of the above	
17)	Data items grouped together for storage purposes are called a :	A
	A) record	
	B) title	
	C) list	
	D) string	
18)	Which of the different ways for handling recovery?	D
	A) Steal/No-Force (Undo/Redo)	
	B) Steal/Force (Undo/No-redo)	
	C) No-Steal/No-Force (Redo/No-undo)	
	D) All of the above	
19)	The operation allows the combining of two relations by merging pairs of tuples, one from	В
	each relation, into a single tuple.	
	A) Select	
	B) Join	
	C) Union	
	D) Intersection	
20)	Storage devices like magnetic disk comes under	В
	A) Volatile storage	
	B) Non-volatile storage	
	C) Stable storage	
21)	D) Dynamic storage	- C
21)	The term is used to refer to a row.	С
	A) AttributeB) Field C) TupleD) Instance	
22)	provides enterprise-wide connectivity solutions in distributed, heterogeneous	В
	computing environments	
	A) Online new server	
	B) Oracle Net Services	
	C) Online Net Solutions	
	D) none of the above	

23)	ARIES uses a to identify log records, and stores it in database pages. A) Log sequence number B) Log number C) Lock number D) Sequence	В
24)	An abstraction concept for building composite object from their component object is called : A) Specialization B) Normalization C) Aggregation D) Generalization	С
25)	An active database allows users to make the following changes to triggers	D
26)	A) ActivateB) DeactivateC) DropD) All of the above ADBMS stands for A) Advanced DBMS B) Automatic DBMS C) Anti DBMS D) none of the above	A
27)	Which of the follow is not the degree of relationship? A) SingleB) BinaryC) TernaryD) n-ary	A
28)	Which of the following is not a type of Data Update A) Immediate Update B) Deferred Update C) Shadow Update D) Inferred Update	D
29)	Immediate database modification technique uses A) Both undo and redo B) Undo but no redo C) Redo but no undo D) Neither undo nor redo	A
30)	Tape storage is referred to as storage. A) Direct-access B) Random-access C) Sequential-access D) All of the mentioned	С

A) Logical B) Physical C) Conceptual D) None of the above	С
B) Unit drive C) Read disk D) Readsum 32) Which one of the following design is both software and hardware independent? A) Logical B) Physical C) Conceptual D) None of the above 33) DML stands for	C
C) Read disk D) Readsum 32) Which one of the following design is both software and hardware independent? A) Logical B) Physical C) Conceptual D) None of the above 33) DML stands for	C
D) Readsum 32) Which one of the following design is both software and hardware independent? A) Logical B) Physical C) Conceptual D) None of the above 33) DML stands for	C
32) Which one of the following design is both software and hardware independent? A) Logical B) Physical C) Conceptual D) None of the above 33) DML stands for	С
A) Logical B) Physical C) Conceptual D) None of the above	С
B) Physical C) Conceptual D) None of the above 33) DML stands for	
C) Conceptual D) None of the above 33) DML stands for	
D) None of the above 33) DML stands for	
33) DML stands for	
A) data manimulation language	
A) data manipulation language	A
B) data mutation language	
C) data master list	
D) none of the above	
34) Remote backup system must be with the primary site.	A
A) Synchronised	
B) Separated	
C) Connected	
D) Detached but related	
	В
A) Record	
B) Column	
C) Tuple	
D) Key	
, , , , , , , , , , , , , , , , , , ,	В
A) Primary Site	
B) Secondary Site	
C) Tertiary Site	
D) None of the mentioned 37) Which of the following is/are Design decisions about indexing	
	D
A) Whether to index an attribute?	ע
B) What attribute or attributes to index on?	
C) Whether to set up a clustered index?	
D) All of the above	

38)	A schema describes :	D
	A) Record Relationship	
	B) Data Elements	
	C) Record and files	
	D) All of the above	
39)	In B+ tree the node which points to another node is called	D
	A) Leaf node	
	B) External node C) Final node	
	D) Internal node	
40)		-
40)	refers to the correctness and completeness of the data in a database?	В
	A) Data security	
	B) Data integrity	
	C) Data constraint	
	D) Data independence	
41)	The syntax of a user query is verified by :	С
	A) query optimizer	
	B) DBA	
	C) parser	
	D) none of the above	
42)	The consists of physical files and memory components.	В
	A) Oracle Client	
	B) Oracle Server	
	C) Oracle Middleware D) Oracle Instance	
10)	Í	
43)	Shadow paging has A) no redo	A
	B) no undo	
	C) redo but no undo	
	D) neither redo nor undo	
44)	The backup is taken by	С
	A) Erasing all previous records	
	B) Entering the new records C) Sanding all log records from primary site to the remote backup site.	
	C) Sending all log records from primary site to the remote backup site D) Sending selected records from primary site to the remote backup site	
	5, bending selected records from primary site to the remote backup site	

45)	Which of following are the properties of entities ?	С
	A) Groups	
	B) Table	
	C) Attributes	
	D) Switchboards	
46)	Which one is lowest level data model?	A
	A) physical data model	
	B) logical data model	
	C) external data model	
	D) none of the above	
47)	RAID is	С
	A) Redundant Arrays of Inexpensive Display	
	B) Redundant Arrays of expensive Disks	
	C) Redundant Arrays of Inexpensive Disks	
	D) none of the above	
48)	Course(course_id,sec_id,semester)	В
	Here the course_id,sec_id and semester are and course is a	
	A) Relations, Attribute	
	B) Attributes, Relation	
	C) Tuple, Relation	
	D) Tuple, Attributes	
49)	Which of the following is/are Types of multimedia data?	D
	A) Graphics	
	B) Image	
	C) Animation	
	D) All of the above	
50)	The database may become unavailable for use due to	D
	A) Transaction Failure	
	B) System Failure	
	C) Media Failure	
	D) All of the above	

51)	A hash function must meet criteria. A) Two B) Three C) Four D) None of the mentioned	В
52)	In ordered indices the file containing the records is sequentially ordered, a is an index whose search key also defines the sequential order of the file. A) Clustered index B) Structured index C) Unstructured index D) Nonclustered index	A
53)	In Oracle Database	A
54)	Which of the following is not an advantage of B-Tree Index Files A) Lack of redundant storage B) Some searches are faster C) Leaf and non-leaf nodes are of different size D) All of the above	С
55)	An organization comprising a database system usually includes a person called as A) system administrator.B)database administrator C)office administrator D) oracleadministrator	В
56)	The time to process the remote backup can be reduced by A) Flags B) Breakpoints C) Redo points D) Checkpoints	D
57)	Which of the following Problems to be considered in tuning: A) How to avoid excessive lock contention? B) How to minimize overhead of logging and unnecessary dumping of data? C) How to optimize buffer size and scheduling of processes? D) All of the above	D

58)	The is that part of main memory available for storage of copies of disk blocks.	A
	A) Buffer	
	B) Catalog	
	C) Storage	
	D) Secondary storage	
59)	A data model is:	С
	A) Used to describe structure of a database	
	B) Set of basic operations on the database	
	C) Both [A] and [B]	
	D) None of the above	
60)	For a transaction to be durable, its changes need to be written to storage.	С
	A) Volatile storage	
	B) Non-volatile storage	
	C) Stable storage	
	D) Dynamic storage	
61)	Which of the following Operations can be performed on Files	D
	A) Open	
	B) Read	
	C) Delete	
	D) All of the above	
62)	What is the main limitation of Hierarchical Databases?	В
	A) Limited capacity (unable to hold much data)	
	B) Limited flexibility in accessing data	
	C) Overhead associated with maintaining indexes	
	D) The performance of the database is poor	
63)	Object which is distinguishable from other objects by specific set of attributes is called as	A
	AN FORM	
	A) Entity	
	B) None of these	
	C) Attributes	
	D) Classes	
64)	For correct behaviour during recovery, undo and redo operation must be	C
	A) Commutative	
	B) Associative	
	C) Idempotent	
	D) Distributive	

65)	If any tampering with the database is suspected, a databaseis performed.	A
	A) audit	
	B) Rollback	
	C) Lock	
	D) none of the above	
66)	Which of the following is/are Threats to databases	D
	A) Loss of integrity	
	B) Loss of availability C) Loss of confidentiality	
	D) All of the above	
67)	The process of saving information onto secondary storage devices is referred to as	С
	A) Backing up	
	B) Restoring	
	C) Writing	
	D) Reading	
68)	Which of the following is not a level of data abstraction?	В
	A) Physical Level	
	B) Critical Level	
	C) Logical Level	
	D) View Level	
69)	A data dictionary is a special file that contains?	D
	A) The names of all fields in all files	
	B) The data types of all fields in all files	
	C) The widths of all fields in all files	
	D) All of the mentioned	
70)	The consists of the memory components of Oracle and various	D
	background processes.	
	A) Oracle Parameter	
	B) Oracle Profile	
	C) Oracle Process	
7.1	D) Oracle Instance	
71)	A logical description of some portion of database that is required by a user to perform task is	В
	called as	
	A) System View	
	B) User View	
	C) Logical View	
1	D) Data View	

72)	Which of the following is not a Schema?	С
	A) Database Schema	
	B) Physical Schema	
	C) Critical Schema	
73)	D) Logical Schemaenables you to configure Oracle Net Services	Λ
(3)	enables you to configure Oracle Net Services	Α
	A) Oracle Net Manager	
	B) Online net manager	
	C) Both A) and B)	
	D) none of the above	
74)	Which of the following is a physical storage media?	D
	A) Tape Storage	
	B) Optical Storage	
	C) Flash memory D) All of the mentioned	
	A is a pictorial depiction of the schema of a database that shows the relations in the	Α
	database, their attributes, and primary keys and foreign keys.	
	A) Schema diagram	
	B) Relational algebra	
	C) Database diagram	
	D) Schema flow	
76)	A relational database consists of a collection of	A
	A) Tables	
	B) Fields	
	C) Records	
	D) Keys	
77)	Data Models in DBMS are classified into categories.	В
78)	A) 5 B) 3 C) 2 D) 4 Which one of the following is not an object-based logical model?	С
/6)		
	A) The binary model	
	B) The entity-relational model	
	C) The infological model	
	D) None of these	
79)	In a index, an index entry appears for only some of the search-key values.	A
1	A) Dense	
1	B) Sparse	
1	C) Straight	
	D) Continuous	

30)	Which of the following is/are type of hashing	С
	A) Internal Hashing	
	B) External Hashing	
	C) Both A) and B)	
	D) none of the above	
	In magnetic disk stores information on a sector magnetically as reversals of the direction of magnetization of the magnetic material. A) Read–write head B) Read-assemble head C) Head–disk assemblies D) Disk arm	D
	is the time from when a read or write request is issued to when data transfer begins. A) Access time B) Average seek time C) Seek time D) Rotational latency time	A
33)	Which of the following is /are Countermeasures for DB security?	D
	A) access control	
	B) inference control	
	C) flow control	
	D) All of the above	
	Data about data is normally termed as : A) directory	С
	B) Data abnk	
	C) MetaData	
	D) none of the above	
35)	What is RBAC in Database Security?	A
	A) Role-based access control	
	B) Rule-based access command	
	C) Role-based active control	
	D) none of the above	

86)	Database which is the logical design of the database, and the database	D
00)	which is a snapshot of the data in the database at a given instant in time.	
	A) Instance, Schema	
	B) Relation, Schema	
	C) Relation, Domain	
	D) Schema, Instance	
87)	A in a table represents a relationship among a set of values.	С
	A) Column	
	B) Key	
	C) Row	
	D) Entry	
88)	The scheme for hierarchical database is :	A
	A) a tree	
	D) a graph	
	B) a graph	
	C) a B-tree	
	D) none of the above	
89)	The level of data abstraction which describes how the data is actually stored is:	В
	A) conceptual level	
	B) physical level	
	C) file level	
	D) none of these	
90)	A is the smallest unit of information that can be read from or written to the disk.	С
	A) Track	
	B) Spindle	
	C) Sector	
	D) Platter	
91)	DBA stands for :	D
	A) Data Bank Access	
	B) Database Access	
	C) Data Bank Administration	
	D) Database Administrator	
92)	The log is a sequence of recording all the update activities in the database.	A
	A) Log records	
	B) Records	
	C) Entries	
	D) Redo	
	,	

93)	Collection of information stored in a database at a particular moment is:	A
	A) view	
	B) schema	
	C) instance	
	D) none of the above	
94)	Key value pairs is usually seen in	A
	A) Hash tables	
	B) Heaps C) Both Hash tables and Heaps	
	D) Skip list	
95)	One of the following is a valid record-based data model :	В
	A) Object-oriented model	
	B) Relational model	
	C) Entity-relationship model	
	D) None of the above	
96)	Which of the following is not a type of index	D
	A) primary index	
	B) Dense Index	
	C) Sparse Index	
	D) High Index	
97)	Manager's salary details are hidden from the employee. This is:	A
	A) Conceptual level data hiding	
	B) Physical level data hiding	
	C) External level data hiding	
	D) None of these	
98)	A technique for direct search is	D
	A) Binary Search B) Linear Search	
	C) Tree Search	
	D) Hashing	
99)	The method in which records are physically stored in a specified order according to a key field in each record is	A
	A) Hash	
	B) Direct.	
	C) Sequential	
	D) All of the above.	

100) The property that uniquely defines each row in a table is called the:	C
A) Identifier	
B) Index	
C) Primary key	
D) Symmetric key	

	Question Bank of	ANS
	CA 8.1 Software Project Management(254801)	
1)	Assembling project team and assigning their responsibilities are done during which phase of a project management? A) Initiation B) Planning C) Execution D) Closure	A
2)	Determining the method and the timing of releasing team members should be included in the— A) Staff acquisition plan B) Human resource plan C) Staffing management plan D) Project training plan	С
3)	The nature of a project is A) Permanent B) temporary C) (A) or (B) D) Both (A) and (B)	В
4)	A process that involves continuously improving and detailing a plan as more detail become available is termed as A) project analysis B) project enhancing C) progressive deliberation D) progressive elaboration	D
5)	Which from the following statement(s) is/are NOT true? I. Projects have defined objectives II. Programs have a larger scope than projects III. The projects and programs in a portfolio must be directly related A) I only B) II only C) III only D) II and III only	С

6)	Which from the following represents the correct project cycle? A) Planning→Initiating→Executing→Closing B) Planning→Executing→Initiating→Closing C) Initiating→Planning→Executing→Closing D) Initiating→Executing→Planning→Closing	С
7)	A horizontal bar chart that shows project tasks against a calendar is known as A) Gantt chart B) goal C) milestone D) PERT chart	A
8)	By which of these techniques, the most long-lasting conflict resolution is caused? A) Smoothing B) Forcing C) Compromising D) Confrontation	D
9)	The statistical tool that depicts a project's tasks and the relationships between those tasks is known as A) milestone B) goal C) Gantt chart D) PERT chart	D
10)	Which of below is not a part of project management? A) Initiating B) monitoring C) closing D) All above are parts	D
11)	The business case and the justification for the project is determined during the phase. A) Initiation B) planning C) execution D) closure	A

12)	In which phase of the project management, scope of the work is defined? A) Executing B) Planning C) Initiating D) Closing	С
13)	How the project work will be carried out, monitored, and controlled? These questions are answered in which phase of the project management? A) Initiating B) Planning C) Executing D) Closing	В
14)	The key way for a project manager to promote optimum team performance in project teams whose members are not collocated is to— A) Build trust B) Establish a reward and recognition system C) Obtain the support of the functional managers in the other locations D) Exercise his or her right to control all aspects of the project	A
15)	The review of the successes and the mistakes is normally held during phase. A) Initiation B) planning C) execution D) closure	D
16)	The process each manager follows during the life of a project is known as A) Project Management B) Manager life cycle C) Project Management Life Cycle D) All of the mentioned	С

17)	Which of the following is/are main parameters that you should use when computing the costs of a software development project? A) Travel and training costs B) hardware and software costs C) effort costs (the costs of paying software engineers and managers) D) all of the mentioned	D
18)	Quality planning is the process of developing a quality plan for A) team B) project manager C) customers D) project	D
19)	Which of the following is not correct about initial phase of a project? A) The cost associated at the beginning of the project is highest. B) Stakeholders have maximum influence during this phase C) The highest uncertainty is at this stage of the project. D) All the above statements are correct.	A
20)	Project managers have the highest level of authority and the most power in which type of organizational structure? A) Projectized B) Strong Matrix C) Functional D) Balanced Matrix	A
21)	The chances for successful completion of a multidisciplinary project are increased if project team members are— A) Problem oriented B) Politically sensitive to top management's needs C) Focused on individual project activities D) Focused on customer demands	A

22)	What is one of the most important skills a project manager can have? A) Negotiation skills B) Influencing skills C) Communication skills D) Problem Solving skills	С
23)	Which of the following contracts should you use for <u>projects</u> that have a degree of uncertainty and require a large investment early in the project life cycle? A) Fixed Price B) Cost Reimbursable C) lump Sum D) Unit Price	В
24)	A Project manager would find team development the most difficult in which form of organization? A) Weak Matrix Organization B) Balanced Matrix Organization C) Projectized Organization D) Tight Matrix Organization	A
25)	Software systems are likely to be subject to a high degree of A) Performance B) Change C) Time D) Strength	В
26)	In case of product-driven projects, the objectives of the project are defined in terms of A) Functional requirements only B) Resource and non-functional requirements C) Functional and quality requirements D) Resource requirements only	С

27)	Quality requirements consist of	
21)	Quanty requirements consist of	
	A) Reliability.	
	B) Ease of using the system.	D
	C) Response time.	
	D) All the above.	
28)	Which of the following is tabular illustration of the anticipated risks in a project?	
	A) Time Table	
	B) Assessment Table	С
	C) Risk Table	
	D) Round Table	
29)	Two team members on your project often disagree. You need a conflict resolution method that provides a long-term resolution. You decide to use which one of the following approaches?	
	A) Confronting	C
	B) Problem solving	
	C) Collaborating	
	D) Smoothing	
30)	In order to carry out a successful strategic assessment of a potential project there should be strategic plan clearly defining the organization's	
	A) Objectives	
	B) Rules	A
	C) Conditions	
	D) Ideas	

31)	Which one of the following statements best describes a project?	
	A) A project is a set of tools and techniques often used when delivering organizational change.	
	B) A project is the sum of activities needed to remove uncertainty from a unique piece of work.	С
	C) A unique transient endeavor undertaken to achieve a desired outcome.	
	D) A project is a method of planning work.	
32)	The document that identifies what information needs to be shared, to whom, why, when and how is called the:	
	A) Communication management plan.	
	B) Stakeholder mapping grid.	A
	C) Document distribution schedule.	
	D) Responsibility assignment matrix.	
33)	What are Requirements refined and analyzed to assess their clarity, completeness, and	
	A) Consistency	
	B) Correctness	A
	C) Concurrency	
	D) None of these	
34)	If the Earned Value is equal to Actual Cost, it means: A) Project is on budget and on schedule B) Schedule Variance Index is 1 C) There is no schedule variance D) There is no cost variance	D
35)	Which of the following is the most important element of Project Management Plan that is useful in HR Planning process?	
	A) Risk Management activities	_
	B) Quality Assurance activities	С
	C). Activity Resource requirements	
	D) Budget Control activities	
	•	

36)	Which of the following is the reason that software is delivered late? A) Changing customer requirements that are not reflected in schedule changes B) Technical difficulties that could not have been foreseen in advance C) Human difficulties that could not have been foreseen in advance D) All of the mentioned	D
37)	Which of the following is an activity that distributes estimated effort across the planned project duration by allocating the effort to specific software engineering tasks? A) Software Macroscopic schedule B) Software Project scheduling C) Software Detailed schedule D) None of the mentioned	В
38)	Every task that is scheduled should be assigned to a specific team member is termed as A) Compartmentalization B) Defined milestones C) Defined responsibilities D) Defined outcomes	С
39)	The main objective for investing money, time in the event is to increase — A) Quality B) Morale C) Team performance D) Individual performance	С
40)	What is a collection of software engineering work tasks, milestones, and deliverables that must be accomplished to complete a particular project? A) Task set B) Degree of milestone C) Adaptation criteria D) All of the mentioned	A
41)	Ensuring that no more than the allocated numbers of people are allocated at any given time in Software Scheduling is known as A) Time Allocation B) Effort Validation C) Defined Milestone D) Effort Distribution	В

42)	Which of the following is not an adaptation criteria for software projects? A) Size of the project B) Customers Complaints C) Project staff D) Mission criticality	В
43)	The primary result of effective team development is— A) Improved project performance B) An effective, smoothly running team C) An understanding by project team members that the project manager is ultimately responsible for project performance D) Enhancement of the ability of stakeholders to contribute as individuals and team members	A
44)	Which of the following is a project scheduling method that can be applied to software development? A) PERT B) CPM C) CMM D) Both PERT and CPM	D
45)	The standard way of evaluating the economic benefits of any projects is to carry out a analysis. A) price-benefit. B) cost-benefit. C) Cash flow. D) Fund flow.	В
46)	Which of the below elements contributes the maximum to team communication? A) External feedback B) Collection C) Smoothing over of team conflicts by the project manager D) Performance appraisals	В

47)	The costs that include the salaries and other employment costs of the staff involved in the development project and all associated costs are	
	A) Operational cost.	
	B) Development cost.	В
	C) Setup cost	
	D) Direct cost.	
48)	Long term or benefits that are considered very difficult to quantify is called	
	·	
	A) Direct benefits	6
	B) Assessable benefits.	D
	C) Indirect benefits.	
	D) Intangible benefits	
49)	The availability of staff and experience will be under	
	A) Process uncertainty.	
	B) Product uncertainty.	C
	C) Resource uncertainty.	
	D) Profit uncertainty.	
50)	PERT analysis is based on	
	A) Most likely time	
	B) Pessimistic time	D
	C) Optimistic time	
	D) All of these.	
51)	Which of the option is not a notable challenge while scheduling a project?	
	A) Deadlines exist.	
	B) Independent activities.	В
	C) Too many workers may be required.	
	D) Costly delay	

52)	The specific work performance in CPM is called as	
	A) Activity	
	B) Event	A
	C) Dummy	
	D) Contract.	
53)	The critical path	
	A) Is the longest path	
	B) Is a mixture of all paths.	A
	C) Is a path that operates from the starting node to the end node	
	D) Is the shortest path	
54)	Which of the following is a ground rule for project team building?	
	A) Perform frequent performance appraisals	
	B) Ensure that each team member reports to his or her functional manager in addition to the project manager	C
	C) Start early	
	D) Try to solve team political problems	
55)	Completion of a CPM network diagram activity is commonly known	
	A) Connector	
	B) Event	D
	C) Node	
	D) All the above.	
56)	While scheduling a project by CPM	
	A) A project is divided into various activities	
	B) Required time for each activity is established	D
	C) A sequence of various activities is made according to their importance	
1	D) All the above.	

57)	An important aim of a post-project review is to:	
	A) Validate overall progress to date against the budget and schedule.	
	B) Capture learning and document it for future usage.	В
	C) Ensure acceptance of all permanent documentation, signed by the sponsor.	
	D) Establish that project benefits have been identified.	
58)	The process that evaluates overall project performance to provide confidence is called:	
	A) Quality assurance.	
	B) Quality planning.	A
	C) Quality control.	
	D) Quality audit.	
59)	Each component of the software product is separately estimated and the results aggregated to produce an estimate for the overall job.	
	A) Algorithmic model	
	B) Expert judgment	С
	C) Bottom-up	
	D) Top down	
60)	Process Analysis is a task of	
	A) Process Improvement Plan	
	B) Quality Metrics	A
	C) Performance Analysis	
	D) Quality Improvement Plan	
61)	Root Cause Analysis relates to	
	A) Quality Control Measurements	
	B) Quality Audits	C
	C) Process Analysis	
	D) Performance Measurements	

62)	A planning phase for an engineering component generated 80 engineering drawings. The QA team randomly selected 8 drawings for inspection. This exercise can BEST be described as example of:	
	A) Inspection	В
	B) Statistical Sampling	2
	C) Flowcharting	
	D) Control Charting	
63)	Which one of the following is captured in the Work Breakdown Structure (WBS)?	
	A) The life cycle phases.	
	B) The logical order of tasks.	C
	C) The scope of the project.	
	D) Project costs.	
64)	Project reporting can best be defined as:	
	A) Informing stakeholders about the project.	
	B) Storing and archiving of project information.	A
	C) Gathering stakeholder feedback.	
	D) Collecting project information.	
65)	Which one of the following statements best defines an estimate?	
	A) An approximation of project time and cost targets, refined throughout the project life cycle.	
	B) A prediction of a future condition or event based on information or knowledge available now.	A
	C) The value of useful work done at any given point in a project to give a measure of progress.	
	D) A situation that affects or influences the outcome of the project expressed in time or cost terms.	

66)	During which stage of Risk planning is risks prioritized based on probability and impact?	
	A) Identify Risks	
	B) Plan Risk responses	С
	C) Perform Qualitative risk analysis	
	D) Perform Quantitative risk analysis	
67)	The objective of is to avoid or minimize the adverse effects of unforeseen events is called	
	A) Risk management.	
	B) Risk maintenance.	Α
	C) Risk taking.	
	D) Risky job.	
68)	= risk likelihood x risk impact.	
	A) Risk estimate.	
	B) Risk expenditure.	D
	C) Risk identification	
	D) Risk exposure.	
69)	The impact of some risks can be transferred away from the project by	
	A) Risk analysis.	
	B) Risk control.	C
	C) Risk transfer.	
	D) Risk evaluation.	
70)	A is any item or person required for the execution of the project.	
	A) Risk.	
	B) Allocation.	D
	C) Activity.	
	D) Resource	

71)	Controlling the changes in the project might disturb	
	A) Project scope	
	B) Stage cost	D
	C) The progress of the project	
	D) All of these	
72)	Cost schedule of an activity plan is represented as	
	A) Sequence of steps.	
	B) Descending steps.	A
	C) Ascending steps.	
	D) Reverse steps	
73)	The process of Control Procurements belongs to	
	A) Monitoring and Control	
	B) Closing	A
	C) Planning	
	D) Executing	
74)	What is defined as "the ability to influence and align others towards a common purpose"?	
	A) Teamwork.	
	B) Motivation.	D
	C) Management.	
	D) Leadership.	
75)	Which one of the following statements about the project risk register is false?	
	A) It facilitates the review and monitoring of risks.	
	B) It facilitates the risk appetite.	В
	C) It facilitates the recording of risk responses.	
	D) It facilitates the recording of risks.	

70\	NA: 1 CA	
76)	Which one of the following statements best defines procurement?	
	A) A technique to establish the best approach for obtaining the resources for the project.	
	B) A group of interrelated resources and activities that transform inputs into outputs.	D
	C) The description of the purpose, form and components to support delivery of a product.	
	D) The process by which products and services required for the project are acquired.	
77)	Which is next step in change control process, once a change has been demanded?	
	A) Update the change log.	
	B) Advise the sponsor.	С
	C) Evaluate the change.	
	D) Update the project plan.	
78)	Which one of the following best describes project success criteria?	
	A) Actively seeking some senior management support.	
	B) Measures by which the success of the project is judged.	В
	C) Achievement of milestones.	
	D) A motivated project team.	
79)	For project risk,has decisive responsibility.	
	A) Project sponsor.	
	B) Risk owner.	A
	C) Steering group	
	D) Project manager.	
80)	When a project has completed the handover and closure phase:	
	A) The project deliverables are ready for commissioning.	
	B) The project deliverables are ready for handing over to the users.	D
	C) The project documentation must be disposed of.	
	D) The capability is now in place for the benefits to be realized.	
	<u> </u>	l

81)	A main aspect of managing a project includes	
	A) Defining which operational systems to put in place.	
	B) Planning to achieve defined objectives.	В
	C) Ensuring ongoing operations are maintained.	
	D) Identifying routine tasks.	
82)	Which one of the following statements best defines teamwork?	
	A) People working collaboratively towards a common goal.	
	B) Developing skills that will enhance project performance.	A
	C) Gathering the right people together to work on a project.	
	D) Establishing vision and direction towards a common purpose.	
83)	The main aim of a project risk management process should be to:	
	A) Identify project risks and then manage them appropriately.	
	B) Identify all project risks and transfer them immediately.	A
	C) Identify all the things that are threats or opportunities on a project.	
	D) Satisfy the organization's project management process.	
84)	The fixed price contract is advantageous to the buyer because it:	
	A) Requires extremely well defined specifications	
	B) Requires formal procedures for scope changes	C
	C) Seller assumes financial and technical risk	
	D) Has a known cost	
85)	The contract administration job comprises:	
	A) Performance control	
	B) Managing relationships and interfaces	D
	C) Funding management	
	D) All of these	

_		
86)	The tools and techniques used in the process of Plan Procurement Management includes all but	
	A) Make-or-buy analysis	C
	B) Market Research	C
	C) Bidder Conferences	
	D) Expert Judgment	
87)	Following is (are) the tool(s) for changing a process	
	A) Change Management System (CMS)	
	B) Configuration Management (CM)	C
	C) Both (A) and (B)	
	D) None of the above	
88)	Which is the last item a project manager should do to finalize the project closing?	
	A) Reassign the team	
	B) Complete lessons learned	D
	C) Archive the project records	
	D) Contract completion	
89)	The inputs utilized in the process of Conduct Procurements comprises all excluding	
	A) Seller Proposals	D
	B) Agreements	В
	C) Source Selection Criteria	
	D) Procurement statement of work	

90)	The component of the project management plan that describes how a project team will acquire goods and services from outside the performing organization is called	
	A) Procurement Management Plan	A
	B) Procurement Statement of Work	7 1
	C) Procurement Documents	
	D) None of the above	
91)	To have a legally binding contract, which of the following items must be present?	
	 A) Offer and Consideration B) Offer and Acceptance C) Offer, acceptance, consideration, capacity by both parties to contract, and a legal purpose D) A meeting of the minds 	С
92)	A manager that manages a collection of associated projects is known as	
	A) Project manager.	
	B) Program manager.	В
	C) Program coordinator.	
	D) Project expediter.	
93)	Two types of change management are	
	A)Real change and superficial change	
	B) Incremental change and transformational change	В
	C) Radical change and transformational change	
	D) Incremental change and circular change	
94)	The possibility of finishing the project in the initial phase is	
	A) Low	
	B) High	A
	C) Zero	
	D) Any of the above	

95)	A change agent	
	A) Supports change	
	B) Helps implement change	В
	C) Initiates change	
	D) Opposes change	
96)	The three stages of the change process are:	
	A) unfreezing, adjustment, and refreezing	
	B) Adjustment, unfreezing and refreezing	A
	C) Adjustment, unfreezing and re-adjustment	
	D) Adjustment, re-adjustment and unfreezing	
97)	Transformational change is often done	
	A) By middle managers	
	B) After extensive consultation	D
	C) Bottom up	
	D) Top down	
98)	Five dimensions that must be managed on a project	
	A) Constraint, Quality, Cost, Schedule, Staff	
	B) Features, Quality, Cost, Schedule, Staff	В
	C) Features, priority, Cost, Schedule, Staff	
	D) Features, Quality, Cost, Schedule, customer	
99)	Project performance comprises of	
	A) Quality	
	B) Cost	D
	C) Time	
	D) All of these	

The probability of completing the project can be estimated based upon the	
A) Uniform distribution curve	
B) Normal distribution curve.	В
C) U-shaped distribution curve	
D) None of the above	
	A) Uniform distribution curve B) Normal distribution curve. C) U-shaped distribution curve

	Question Bank of	ANS
	CA 8.2 Internet Computing(254802)	
1)	menus, tree view and sitemap path controls cannot be styled with CSS -	b.
	a. True	
	b. False	
2)	Every server control must have an id	a.
	a. True	
	b. False	
3)	Which of the following object is not as ASP component.	c.
	a. Counter	
	b. AdRotator	
	c. LinkCounter d. File Access	
	u. The Access	
4)	Which of the following tool is used to manage the GAC.	b.
	a. RegSvr.exe	
	b. GacUtil.exe	
	c. GacSvr32.exe	
	d. Gacmgr.exe	
5)	is the code mixed with the HTML and asp controls called?	a.
	a. inline code	
	b. bar code	
	c. both 1 & 2	
L	d. both a and b	

6)		d.
	We can manage states in asp.net application using	
	a. Session Objects	
	b. Application Objects	
	c. Viewstate	
	d. All of the above	
7)		a.
	Attribute must be set on a validator control for the validation to work.	
	a. ControlToValidate	
	b. ControlToBind	
	c. ValidateControl	
	d. Validate	
8)	is not an ASP.NET page event.	c.
	a. Load	
	b. Init	
	c. Import	
	d. All of the mentioned	
9)	File extension used for ASP.NET files.	b.
	aWeb	
	bASP	
	cASPX	
	d. None of the above	

	c.
File extension used for ASP.NET Page.	
aWeb	
bASP	
cASPX	
d. None of the above	
	d.
How do you get information from a form that is submitted using the "post" method?	
a. Request.QueryString	
b. Response.writeln	
c. Response.write	
d. Request.Form	
ASP.NET was first released in	
a. January 2003	b.
b. January 2002	
c. Feb 2002	
d. January 2001	
Which of the following object is used along with application object in order to ensure that only one process accesses a variable at a time?	b.
a. Synchronize	
b. Synchronize()	
c. ThreadLock	
d. Lock()	
	aWeb bASP cASPX d. None of the above How do you get information from a form that is submitted using the "post" method? a. Request.QueryString b. Response.writeln c. Response.write d. Request.Form ASP.NET was first released in a. January 2003 b. January 2002 c. Feb 2002 d. January 2001 Which of the following object is used along with application object in order to ensure that only one process accesses a variable at a time? a. Synchronize b. Synchronize() c. ThreadLock

14)	Which of the following authentication is best suited for a corporate network?	a
	a. Windows	
	b. Form	
	c. User	
	d. All	
15)		a.
	By default, code written with the Debug class is stripped out of release builds.	
	a. Yes	
	b. No	
16)		b.
	The .NET Framework provides a runtime environment called ?	
	a. RMT	
	b. CLR	
	c. RCT	
	d. RC	
17)		b.
	Find the term: The .NET framework which provides automatic memory management using a technique called?	
	a) Serialization	
	b) Garbage Collection	
	c) Assemblies	
	d) Overriding	

	d.
Which of the following denote ways to manage state in an ASP.Net Application?	
a. Session objects	
b. Application objects	
c. ViewState	
d. All the Above	
	b.
What is the base class from which all Web forms inherit?	0.
a. Master Page	
b. Page Class	
c. Session Class	
d. None of the Above	
ASP.NET was developed by	c.
a. IBM	
b. Google	
c. Microsoft	
d. None of the above	
	b.
c.Both a and b	
d.None of the Above	
	b. Application objects c. ViewState d. All the Above What is the base class from which all Web forms inherit? a. Master Page b. Page Class c. Session Class d. None of the Above ASP.NET was developed by a. IBM b. Google c. Microsoft d. None of the above Which of the following method used for transfer one page to another page? a. Response.Transfer b. Response.Redirect c.Both a and b

22)		a.
	The type of code found in Code-Behind class is?	
	a. Server-side code	
	b. Client-side code	
	c. Both A. and B.	
	d. None of the above	
23)		b.
	To add a custom control to a Web form we have to register with.	
	a. TagPrefix	
	b. Name space of the dll that is referenced	
	c. Assemblyname	
	d. All of the above	
24)	Which of the following Session Mode Serialization is not required to store the data?	a.
	a. InProc	
	b. SQLServer	
	c. StateServer	
	d. None of the above	
25)	Syntax for closing and opening the connection in ADO.net is a) sqlConn.Open() and sqlConn.close() b) sqlConn.open() and sqlConn.Close() c) sqlConn.Open() and sqlConn.Close() d) none of the mentioned	c.
26)	object is used to fill a DataSet/DataTable with query results in	c.
	ADO.net.	
	a) DataReader b) Dataset	
	c) DataAdapter	
	d) DataTables	

27)		a.
	Which of these data source controls do not implement Caching?	
	a. LinqDataSource	
	b. ObjectDataSource	
	c. SqlDataSource	
	d. XmlDataSource	
28)		b.
	How to implement authentication via web.config?	
	a. Include the authentication element.	
	b. Include the authorization element.	
	c. Include the identity element.	
	d. Include the deny element.	
	In a SQL Statement while working with SqlCommand it returns a single value, at that time method of Command Object will be used. a. ExecuteScalar	a.
	b. ExecuteReader	
	c. ExecuteNonQuery	
	d. None of the above	
30)	Which one of the following namespaces contains the definition for IdbConnection?	d.
	a. System.Data.Interfaces	
	b. System.Data.Common	
	c. System.Data	
	d. System.Data.Connection	

31)		d.
	Which one of the following namespaces contains the definition for IdbConnection?	
	a. System.Data.Interfaces	
	b. System.Data.Common	
	c. System.Data	
	d. System.Data.Connection	
32)	Select the control which does not have any visible interface.	c.
	a. Datalist	
	b. DropdownList	
	c. Repeater	
	d. Datagrid	
33)	What are characteristics best define .NET Core?	d.
	a. Flexible deployment	
	b. Cross-platform	
	c. Command-line tools	
	d. All of the above	
34)	Wilester de difference la terra de Deserva Weiter () and Deserva Co. (1 Weiter () 2	b.
	What's the difference between Response.Write() and Response.Output.Write()?	
	a. Response.Output.Write() allows you to flush output	
	b. Response.Output.Write() allows you to buffer output	
	c. Response.Output.Write() allows you to write formatted output	
	d. Response.Output.Write() allows you to stream output	

35)	Which file contains settings for all .NET application types, such as Windows, Console, ClassLibrary, and Web applications?	b.
	a. Web.config	
	b. Machine.config	
	c. Global.asax	
	d. All of the above	
36)	Which method do you invoke on the Data Adapter control to load your generated dataset?	a.
	a. Fill()	
	b. ExecuteQuery()	
	c. Read()	
	d. None	
37)	To implement a specified .NET Framework interface which directive is used?	d.
	a. @Register	
	b. @Control	
	c. @Reference	
	d. @Implements	
38)	Which of the following languages can be used to write server side scripting in ASP.NET?	d.
	a. C-sharp	
	b. VB	
	c. C++	
	d. A and B	

39)	Which of the following can be used to add alternating color scheme in a Repeater control?	a.
	a. AlternatingItemTemplate	
	b. DataSource	
	c. ColorValidator	
	d. None of the Above	
40)	Suppose one wants to modify a SOAD massage in a SOAD extension then how this	a.
	Suppose one wants to modify a SOAP message in a SOAP extension then how this can be achieved. Choose the correct option from below:	
	a. One must override the method ReceiveMessage	
	b. One must override the method InitializeMethod	
	c. Both A. and B.	
	d. One must override the method ProcessMessage	
41)	How many classes can a single .NET DLL contain?	d.
	a. One	
	b. Two	
	c. None	
	d. Many	
42)	What are the three primary kinds of parameters?	d.
	a. Input, Integer, String	
	b. Integer, String, DateTime	
	c. int, varchar, nvarchar	
	d. Input, Output, InputOutput	

43)		b.
	Which of the following allow writing formatted output?	
	a. Response.Write()	
	b. Response.Output.Write()	
	c. Both A. and B.	
	d. None of the Above	
44)	What property contains the actual error message returned by SQL Server?	d.
	1. SqlException.Source	
	2. SqlException.Message	
	3. SqlError.Class	
	4. SqlError.Message	
	a. 1, 2	
	b. 1, 2, 3	
	c. 1, 3	
	d. 2, 4	
45)	In ASP.NET the < authorization > section contain which of the following elements?	c.
	a. < deny >	
	b. < allow >	
	c. Both A. and B.	
	d. None of the Above	
	1	

46)	In .NET the operation of reading metadata and using its contents is known as?	a.
	a. Reflection	
	b. Enumeration	
	c. Binding	
	d. Serialization	
47)	Which CommandType value is incorrect?	c.
	a. StoredProcedure	
	b. TableDirect	
	c. TableSchema	
	d. Text	
	If one has two different web form controls in a application and if one wanted to know whether the values in the above two different web form control match what control must be used?	c.
	a. DataList	
	b. GridView	
	c. CompareValidator	
	d. Listview	
49)	What attributes do you use to hide a public .Net class from COM?	b.
	a. DLLImport Attributes	
	b. ComVisible attributes	
	c. COM Interop	
	d. All	

50)	What datatype is returned when calling the ExecuteScalar method of a command object?	b.
	a. System.Int32	
	b. Object	
	c. No. of effected records	
	d. None of the above	
51)	Which of the following constitutes the .NET Framework?	b.
	ASP.NET Applications	
	CLR	
	Framework Class Library	
	WinForm Applications	
	Windows Services	
	a. 1, 2	
	b. 2, 3	
	c. 3, 4	
	d. 2, 5	
52)	What are the advantages of AJAX	d.
	a. AJAX is a platform-independent technology.b. It provides partial-page updates.c. Improved performance.d. All of the above.	

	Which control is required of every AJAX page to manage the JavaScript files sent to the client and the communication between client and server?	b.
	a. UpdatePanel	
	b. ScriptManager	
	c. AsyncPostBackTrigger	
	d. None of the above.	
54)	Which control can be used to update only the portion of the page?	a.
	a. UpdatePanel	
	b. ScriptManager	
	c. AsyncPostBackTrigger	
	d. None of the above.	
55)	Which protocol is used to transfer files frtom localhost to remote host?	b.
	a. HTTP	
	b. FTP	
	c. TCP	
	d. UDP	
	Which of the following directive is used to link an assembly to a page or user control?	c.
	a. @Page	
	b. @Import	
	c. @Assembly	
	d. @Reference	
57)	If you want that command object should returns XML data then which method of	c.
	Command Object will be used?	
	a. getXMLData	
	b. getXML	
	c. ExecuteXMLReader	
	d. None of the above.	

58)	The method applied to change the styles of the elements in a ASP.NET webpage is called	c.
	a. master pageb. child pagec. cascading style sheetsd. UTF-8	
	Which of the following web server control display static text that can change at runtime? a. Hyperlink b. Textbox c. Label	c.
	d. None of these above	
	Which web server control is used to display advertisements in ASP.NET a webpage? a. Image b. Imagemap c. Panel d. AdRotator	d.
	Which of the following server control shows data in a tabular format and allows sorting, paging, edit, delete each record? a. ListBox b. GridView c. Repeater d. None of these above	b.
62)	Which of the following webserver control used as container for other server controls in a ASP.NET webpage? a. PlaceHolder b. Panel c. Table d. ImageMap	b.

63)	By using which of the following web server control data can be retrieved from a relational database? a. ObjectDataSource b. SqlDataSource c. AccessDataSource d. XmlDataSource	b.
	Choose the correct option about DataSet object. a. Provides Disconnected mode b. Can store multiple table simultaneously c. Consumer Object d. All of the above.	d.
65)	AccessDataSource Control work with which of the following file types? ampd file bmdb file cmdf file dmyd file	c.
66)	Which of the following validation control is used to ensure that an user does not skip a form entity field? a. RequiredFieldValidator b. CompareValidator c. RangeValidator d. RegularExpressionValidator	a.
67)	Which type of validation is used to check an email address entered by the user is matches to email pattern? a. RangeValidator b. CustomValidator c. ValidationSummary d. RegularExpressionValidator	d.

68)	Using CustomValidator server control	c.
	 a. a developer can compell users to fill all the required fields b. a developer can sreate pop up menu c. a developer can write custom validation function as needed d. none of these above 	
69)	The @Implements directive	c.
	 a. imports a namespace into current page page or user control b. assigns a class or virtual path used to type the Master property of a page c. indicates that a page or user control implements a specified .NET Framework interface d. none of these above 	
70)	Which commands are used to specify settings of an .aspx file?	b.s
	a. Classb. Directives	
	c. Events	
	d. Validation	
71)	Choose the correct option about Master Page and Theme.	d.
	 a. A Master Page enables you to share content across multiple pages in a website and A Theme enables you to control the appearance of the content. b. Theme enables you to share content across multiple pages in a website and A Master Page enables you to control the appearance of the content. c. App_Themes folder contains skin files. d. Option A and C are correct. 	
72)	What is/are true about master page?	d.
	a. Master page contains a <%@ Master %> directive instead of the normal <%@ Page %> directive.	
	b. ContentPlaceHolder control can be added only on master page.c. You can add as many ContentPlaceHolders to a Master Page as you need.d. All of the above.	

73)	At which level Theme can be applied?	d.
	a. Page level	
	b. Site level (through the Web.config file)	
	c. Individual control level d. All of the above.	
	a. All of the above.	
74)	Which control is required inside a content page to reference ContentPlaceHolder control inside the master page?	a.
	a. Content control on a content page.	
	b. ContentPlaceHolder on a content page.c. PlaceHolder control is required on content page.	
	d. None of the above.	
75)	What is/are the advantages of master page?	d.
	a. It helps to display common content in multiple pages.	
	b. They allow you to centralize the common functionality of your pages so that you can make updates in just one place.	
	c. It helps to create a common page layout.	
	d. All of the above.	
7()		1
/6)	Choose the correct option about DataSet object.	d.
	a. Provides Disconnected mode	
	b. Can store multiple table simultaneously	
	c. Consumer Object	
	d. All of the above.	
77)	What types of data can you store in the Cache collection?	b.
	a. Only String Type of Data	
	b. You can store any type of data in the Cache collection.c. Only DataSet Object	
	d. All of the above.	
78)	When do LINQ queries actually run?	d.
	a. When they are iterated over in a foreachloop	
	b. When calling the ToArray() method on the range variable	
	c. When calling the ToList() method on the range variable	
	d. All of the above	

How many types of Cache Dependencies are available in ASP.NET? a. File based dependencies b. Key-based dependencies c. Time-based dependencies d. All of the above	d.
Which of these data source controls do not implement Caching? a. LinqDataSource b. ObjectDataSource c. SqlDataSource d. XmlDataSource	a.
If you want to access a web service method, which attribute it must have? a. [WebMethod] b. [PageMetod] c. [Web.Service] d. [WebSupport]	a.
What is the file extension of web service in ASP.NET? aascx baspx casmx ddocx	c.
In ASP.NET application DLL files are stored in which folder? a. App_Code b. App_Data c. Bin d. App_LocalResources	c.
Application_Start event is available in which file? a. Global.asax b. Local.asax c. Web.config d. None of the above	a.

85)	In which Event you can set the value of a Theme?	d.
		.
	a. Page_Load b. Page_Render	
	c. Page_PreRender	
	d. Page_PreInit	
86)	If you are using Webparts in your web page then which control is necessary?	b.
	a. WebpartController	
	b. WebPartmanager	
	c. WebpartZone	
	d. None of the above	
87)	is the DataType return in IsPostback property.	b.
	a. bit	
	b. boolean	
	c. int	
	d. object	
00)	Wil 4' 4 1 4 4 C 1 1'C 1 9	
	What is the last event of web page life cycle?	a.
	a. Page_Unload	
	b. Page_Load c. Page_LoadComplete	
	d. Page_Finish	
	If you must use a user name and password to connect to a database, where should	b
	you store the sensitive information?	
	a. Compiled in the application	
	b. In an encrypted application configuration file	
	c. In a resource file deployed with the application d. In the registry	
	d. If the registry	
90)	Which of the following is the default authentication mode for IIS?	a.
	a. Anonymous	
	b. Windows	
	c. Basic Authentication	
	d. None	

	If any user has disabled cookies in their browsers, what can you do to enable them to use forms authentication?	c.
	a. Set BoweserCookieEnabled=true;b. Set cookieless=true;	
	c. Use the AutoDetect setting of the cookieless attribute.	
	d. None of the above.	
92)	Which of the following works on server side?	c.
	a. ViewState	
	b. HiddenField	
	c. Application and session	
	d. All of the above	
93)	What happen in the Web Page when Init event occur?	b.
	a. ViewState is loaded on the page.	
	b. Each child control of the page is initialized to its design time values.	
	c. HTML is rendered. d. None of the above	
	a. I voile of the above	
94)	What are the types of Web Server Button Controls that can be created?	c.
	a. Only Submit buttons	
	b. Only Command buttons	
	c. Submit and command buttons	
	d. None of the above.	
	What is the name of the Page object's property that determines if a Web page is being requested without data being submitted to server?	d.
	a. IsCallback	
	b. IsReusable	
	c. IsValid d. IsPostBack	
	a. 151 OSEDUCK	

96)	is the DataType return in IsPostback property.	b.
	a. bit	
	b. boolean	
	c. int	
	d. object	
97)	If you are using user control in ASP.NET page which directory will be used?	a.
	a. Register	
	b. Assembly	
	c. Implements	
	d. Aspx	
98)	Debug class is available in which namespace?	c.
	a. System.Debugb. System.Datac. System.Diagnosticsd. None of the above	
99)	How do you execute multiple SQL statements using a DataReader?	c.
	a. Call the ExecuteReadermethod of two Command objects and assign the results tothe same instance of a DataReader.	
	b. Call the ExecuteReadermethod of a single Command object twice.	
	c. Set the Command.CommandTextproperty to multiple SQL statements delimited	
	by a semicolon. d. Set the Command.CommandTypeproperty to multiple result sets.	
100)	Which SqlCommand execution returns the number of effected records in the	a.
	table?	
	a. ExecuteNonQuery	
	b. ExecuteReader	
	c. ExecuteXmlReader d. ExecuteScalar	

	Question Bank of	ANG
	CA-8.3 Network Programming (254803)	ANS
	What is Concurrent server?	
	a. Handle one request at a time	b
1)	b. Handle multiple request at a time	l b
	c. Not handle any request	
	d. None of the above	
	Abbreviate SMTP	
	a. Simple Mail Transport Protocol	c
2)	b. Single Mail Transfer Protocol	
	c. Simple Mail Transfer Protocol	
	d. Single Mail Transport Protocol	
	In specific, if the systems use separate protocols, which one of the following devices is used to link two systems?	
3)	a. Repeater	b
3)	b. Gateway	
	c. Bridge	
	d. Hub	
	Which of the following system call is used for opening a file?	
	a) read	
4)	b) write	С
	c) open	
	d) close	
	Which of the following is/are the components of sendmail?	
	A. Mail user agent(MUA)	d
5)	B. Mail transfer agent(MTA)	u
	C. Mail delivery agent(MDA)	
	D. All of the above	
	What is User Agents in SMTP	
	a. It acts as a Mail Box	b
6)	b. It prepares the message, encloses it in an envelope	U
	c. It transfers the mail across the internet	
	d. It sends and receives the message	
a \	Find the following call never returns an error?	d
7)	a) open b) fork	a a
	c) ioctl d) getpid	
0)	For reading input, which of the following system call is used?	c
8)	a) write b) rd	
	c) read d) change	
	Which of the following are not system calls?	
0)	a. close	b
9)	b. getc	
	c. bind	
	d. connect	

	Which of the following mode is used for opening a file in both reading and writing?	
	a) O_RDONLY	
10)	b) O_WRONLY	c
	c) O_RDWR	
	d) O_WDR	
	Open system call returns the file descriptor as	
	a) int	
11)	b) float	d
	c) double	
	d) char	
	IPv6 hasbit	
	a. 32	
12)	b.64	c
	c.128	
	d. variable	
	DHCP is the abbreviation of	
	a. Dynamic Host Configuration Protocol	
13)	b. Dynamic Host Control Protocol	a
	c. Dynamic Hyper Control Protocol	
	d. Dynamic Hyper Configuration Protocol	
	is limited to 7-bit ASCII text, with a maximum line length of 1000 characters.	
	A. SMTP	
14)	B. MIME	a
	C. POP	
	D. MTA	
	Can a multi-user chat application be developed using UDP protocol?	
15)	a. Yes	a
	b. No	
	Which of the following class does not provide getInputStream() method?	
	a. Socket	1
	b.DatagramSocket	b
	c. URLConnection	
	d. None of the above	
	Which of the following object is required at both ends for TCP/IP based	
	communication?	
17)	a. InetAddress	d
11)	b. ServerSocket	
	c. DatagramSocket	
	d. Socket	
	How many versions available of IP?	
18)	a. 6 version	
	b. 4 version	С
	c. 2 version	
	d. 1 version	

	Which is the type of scalet?	
	Which is the type of socket?	
10)	a. Datagram b. Stream	d
19)	c. Raw	
	d. All the above	
	Who provide us internet?	
•	a. TCP	С
20)	b. HTTP	
	c. ISP	
	d. FTP	
	DNS is an acronym for	
	(a) Domain Name Security	ن ا
21)	(b) Domain Number System	d
	(c) Document Name System	
	(d) Domain Name System	
	What is a Zone in DNS?	
	a. A set of distinct but non-contiguous portions of the domain name space managed by	
	multiple administrators	
	b. A distinct, contiguous portion of the domain name space managed by multiple	_
22)	administrators	d
	c. A set of distinct but non-contiguous portions of the domain name space managed by a	
	single administrator	
	d. A distinct, contiguous portion of the domain name space managed by a single	
	administrator	
	The applications of the Client and Server Model are	
23)	a. World Wide Web b. Network Printing	d
	c.Email d.All of the above	
	In aname space, each name is made of several parts.	
	a. Flat	
24)	b. Organized	c
	c. Hierarchical	
	d. None of the above	
	A is a subtree of domain name space.	
	a. Label	
25)	b. Domain	b
	c. Name	
	d. None of the above	
	is a technology that creates and handle dynamic document.	
	a. CGI	
26)	b. GIC	a
	c. HTPP	
	d. WWW	
	part 17 17 17	

	TCP process may not write and read data at the same speed. So we need	
	for storage.	
27)	a) Packets	b
27)	b) Buffers	
	c) Segments	
	d) Stacks	
	To achieve reliable transport in TCP, is used to check the safe and	
	sound arrival of data.	
28)	a) Packet	d
20)	b) Buffer	
	c) Segment	
	d) Acknowledgment	
	What is the size of MAC Address?	
	a. 16-bits	
29)	b. 32-bits	С
	C. 48-bits	
	d. 64-bits	
	is responsible for converting the higher level protocol addresses	
	(IP addresses) to physical network addresses.	
20)	a) Address Resolution Protocol (ARP)	a
30)	b) Reverse Address Resolution Protocol (RARP)	
	c) Bootstrap Protocol (BOOTP)	
	d) Internet Control Message Protocol (ICMP)	
	If exec is called immediately after forking,	
	a) The program specified in the parameter to exec will replace the entire process	
31)	b All the threads will be duplicated	a
	c) All the threads may be duplicated	
	d) None of the mentioned	
	Which of the following services use TCP?	
	DHCP	
	SMTP	
	HTTP	
	TFTP	_
32)	FTP	b
	a. 1 and 2	
	b. 2, 3 and 5	
	c. 1, 2 and 4	
	d. 1, 3 and 4	

	You want to implement a mechanism that automates the IP configuration, including IP address, subnet mask, default gateway, and DNS information. Which protocol will you use to accomplish this?	
33)	a. SMTP	d
	b. SNMP	
	c. ARP	
	d. DHCP	
	Which of the following is private IP address?	
	a. 12.0.0.1	
34)	b. 168.172.19.39	d
	c. 172.15.14.36	
	d. 192.168.24.43	
	Which of the following allows a router to respond to an ARP request that is intended	
	for a remote host?	
35)	a. Gateway DP	c
33)	b. Reverse ARP (RARP)	
	c. Proxy ARP	
	d. Inverse ARP (IARP)	
	Which class of IP address provides a maximum of only 254 host addresses per	
	network ID?	
36)	a. Class A	b
30)	b. Class C	
	c. Class B	
	d. Class D	
	What is the address range of a Class B network address in binary?	
	A. 01xxxxxx	_
37)	B. 0xxxxxx	c
	C. 10xxxxxx	
	D. 110xxxxx	
	Return value of the UDP port "Chargen" is	
	a) String of characters	_
38)	b) String of integers	a
	c) Array of characters with integers	
	d) Array of zero's and one's	
	Which of the following is not a mechanism that DHCP supports for IP address	
	allocation?	
39)	a) Automatic allocation	b
	b) Static allocation	
	c) Dynamic allocation	
	d) Manual allocation	
	The name of the protocol which provides virtual terminal in TCP/IP model is.	
40)	a) FTP	d
	b) SMTP	u
	c) HTTP	
	d) Telnet	

	In a/an of DNS resolver, the queried name server can return the best answer i	
	currently has back to the DNS resolver.	
41)	a. Recursive queries	b
	b. Iterative queries	
	c. Reverse queries	
	d. Inverse queries	
	Central Computer which is powerful than other computers in the network is called	
42)	as	b
72)	a.Client b.Server	
	c.Hub d.Switch	
	Machine that places the request to access the data is generally called as	1
43)	a. Server Machine b. Client Machine	b
	c. Request Machine d. None of the above	
	File transfer protocol (FTP) is built onarchitecture	•
44)	a.Peer to peer b.Client server	b
	c.Both a and b d.None of the above	
	The first line of HTTP request message is called	
45)	a.Request line b.Header line	a
	c.Status line d.Entery line	
	The main reason for transition from IPv4 to IPv6 is	
	a) Huge number of systems on the internet	
46)	b) Very low number of system on the internet	a
	c) Providing standard address	
	d) To provide faster internet	
	RPC is a	
	a) asynchronous operation	
47)	b) synchronous operation	b
	c) time independent operation	
	d) channel specific operation	
	Which of the following protocols is used for WWW ?	
	A. ftp	
48)	B. http	b
- /	C. w3	
	D. all of the above	
	RPC (remote procedure call) is used to	
	a.Establish a server on remote machine that can respond to queries	
49)	b.Retrieve information by calling a query	c
'	c.Both a and b	
	d.None of the above	
	The WWW today is a client-server service, in which a client using a browser	
	can access a service using a server.	0
50)	a.Limited b.Vast	c
	c.Distributed d.None of the above	
	c.Distributed u.ivolle of the above	

	In remote procedure ca	all, the client program must be bound with a small library	
51)	procedure called		d
	a.Server stub	U.IVIAI SHAIIIIIg	
		d.Client stub	
	0	is an example of a client-server model?	d
52)		b.DNS	u
		d.All of the above	
	Which 2 protocols are i	used in the Transport layer of the TCP/IP model?	
53)	a) UDP and HTTP	b) TCP and UDP	b
	c) HTTP and TCP	d) ICMP and HTTP	
	_	s not used in the network layer of the TCP/IP model?	1
54)	a) ICMP	b) IP	d
	c) IGMP	d) HTTP	
	Which of the following	allows a router to respond to an ARP request that is intended	
55)	for a remote host?		c
33)	a.Gateway DP	b. ReverseARP (RARP)	
	b.Proxy ARP	d.Inverse ARP (IARP)	
	Which class of IP addre	ess provides a maximum of only 254 host addresses per	
56)	network ID?		c
30)	a. Class A	b. Class B	
	c. Class C	d. Class D	
	If you use either Telnet	or FTP, which is the highest layer you are using to transmit	
57)	data?		d
31)	a. Transport	b.Presentation	
	c.Session	d. Application	
	0	protocols uses both TCP and UDP?	
/		b.SMTP	d
	c.Telnet	d.DNS	
	What layer in the TCP/	/IP stack is equivalent to the Transport layer of the OSI	
501	model?		b
37)	/ 11	b) Host to host	
	/	d) Network Access	
		is not the layer of TCP/IP protocol?	1.
60)	a. Physical layer	b. link layer	b
		d. transport layer.	
		DP, we need socket addresses.	1
61)		b. two	b
		d. four	
	_	or converting the higher-level protocol address (IP addresses)	
62)	to physical network add	dresses.	
	a. Internet Protocol(IP)		c
	b. Internet Control Mess		
	c. Address Resolution Pr		
	d. Bootstrap Protocol(BO	OOTP)	

	Remote Procedure Calls are used	
	a) for communication between two processes remotely different from each other on the	
63)	same system	c
03)	b) for communication between two processes on the same system	
	c) for communication between two processes on separate systems	
	d) none of the mentioned	
	To differentiate the many network services a system supports are used.	
64)	a) Variables b) Sockets	c
	c) Ports d) Service names	
	What is stub?	
	a) transmits the message to the server where the server side stub receives the message and	
(5)	invokes procedure on the server side	d
65)	b) packs the parameters into a form transmittable over the network	
	c) locates the port on the server	
	d) all of the mentioned	
	A remote procedure call is	
	a) inter-process communication	
66)	b) a single process	a
	c) a single thread	
	d) a single stream	
	Which of these packages contains classes and interfaces for networking?	
67)	a) java.io b) java.util	c
	c) java.net d) java.network	
	NFS is	
	a) Filesystems	_
68)	b) Operating systems	d
	c) Transport protocols	
	d) File access protocols	
	NFS stands for	
	a) Null File System	
69)	b) New File System	С
	c) Network File System	
	d) Netware File Server	
	A directory is mounted over a directory of a file system.	
	a) local, remote	
70)	b) remote, local	d
	c) local, local	
	d) none of the mentioned	
	The becomes the name of the root of the newly mounted directory.	,
71)	a) root of the previous directory b) local directory	b
	c) remote directory itself d) none of the mentioned	
	Application layer sends & receives data for particular applications using Hyper Text	
72)	Transfer Protocol (HTTP), and Simple Mail Transfer Protocol (SMTP).	a
12)	a) True	
	b) False	

	Which class is given young hore?	
73)	Which class is given wrong here?	
	a. CLASS A = 1 to 126	
	b. CLASS B = 128 to 191	c
	c. CLASS C = 192 to 220	
	d. CLASS D = 224 to 239 (Multicasting)	
	What type of addresses does DHCP server use?	_
74)	a. Permanent address b. Local address	d
	c. Pool address d. Both a and c	
	allows you to connect and login to a remote computer	
75)	a) Telnet b) FTP	a
	c) HTTP d) SMTP	
	All telnet operations are sent as	
76)	a) 4 bits b) 8 bits	b
	c) 16 bits d) 32 bits	
	Which of the following is true for character mode operation of telnet	
	implementation?	
77)	a) each character typed is sent by the client to the server	a
111)	b) each character typed is discarded by the server	
	c) each character typed is aggregated into a word and then sent to the server	
	d) each character type is aggregated into a line and then sent to the server	
	The main reason for transition from IPv4 to IPv6 is	
	a) Huge number of systems on the internet	
78)	b) Very low number of system on the internet	a
	c) Providing standard address	
	d) To provide faster internet	
	A DNS client is called	
	a) DNS updater	_
79)	b) DNS resolver	b
	c) DNS handler	
	d) none of the mentioned	
	What is the difference between TCP and UDP?	
	a. TCP guarantees that a packet will reach the destination without any duplication while	
90)	UDP does not provide this guarantee.	D
80)	b. The order of data will be same in TCP but that won't be so in UDP.	
	c. TCP is unreliable protocol but UDP is a reliable protocol.	
	d. Only a and b	
	What is internet?	
	A. a single network	
81)	B. a vast collection of different networks	b
	C. interconnection of local area networks	
	D. none of the mentioned	<u> </u>
	What does the java.net.InetAddress class represent?	,
82)	a) Socket b) IP Address	b
	c) Protocol d) MAC Address	

	Which is true for TCP connections? A. TCP connection is a message stream, but it does not preserve message boundaries	
83)	B. TCP connection is byte stream and it preserves message boundaries	c
	C. TCP connection is byte stream and it does not preserve message boundaries D. TCP connection is message stream which preserves message boundaries	
	D. Tel connection is message stream which preserves message boundaries	
	Virtual terminal protocol is an example of	
	a) Network layer	_
84)	b) Application layer	b
	c) Transport layer	
	d) Physical layer	
	Which system call returns the process identifier of a terminated child?	_
85)	a. close b. exit	c
	c. wait d. get	
	The following program results in the creation of?	
	main()	
	{	
	if(fork()>0)	
86)	sleep(100);	b
	}	
	a) an orphan process b) a zombie process	
	c) a process that executes forever d) none of the mentioned	
	The header length of an IPv6 datagram is	
	a) 10bytes	,
87)	b) 25bytes	d
	c) 30bytes	
	d) 40bytes	
	The location of a resource on the internet is given by its?	
	a. Protocol	
88)	b. URL	b
	c. E-mail address	
	d. ICQ	
	How many types of Socket present in Computer network programming?	
	a. 5	
89)		С
	c. 3	
	d. None of the above	

	Protocol defines how messages are formatted and transmitted, and	
	what actions Web servers and browsers should take in response to various	
	commands.	
90)	(a) FTP	c
	(b) TCP/IP	
	(c) HTTP	
	(d) SMTP	
	What is User Agents in SMTP	
	a. It acts as a Mail Box	
91)	b. It prepares the message, encloses it in an envelope	b
	c. It transfers the mail across the internet	
	d. It sends and receives the message	
	The term IPv4 stands for?	
	a. Internet Protocol Version 4	
92)	b. Internet Programming Version 4	a
	c. International Programming Version 4	
	d. None of these	
	An RPC (remote procedure call) is initiated by the	c
93)	a.Server b. Both (a) and (b)	
	c.Client d.None of the mentioned	
	Which software prevents the external access to a system?	
	a. Firewall	
94)	b. Gateway	a
	c. Router	
	d. Virus checker	
	An RPC application requires	
	a.Specific protocol for client server communication	
95)	b.A client program	d
	c.A server program	
	d.All of the above	
	The number of layers in ISO OSI reference model is	
	a. 5	h
96)	b. 7	b
	c. 6	
	d. 10	
	The length of an IPv6 address is?	
\	a. 32 bits	d
97)	b. 64 bits	u
	c. 128 bits	
	d. 256 bits	
067	What is the default port of SMTP?	с
98)	a. 85 b. 70 c. 25 d. 50	-
	c. 25 d. 50	

	When the mail server sends mail to other mail servers it becomes?	
	a. SMTP client	
99)	b. SMTP server	a
	c. Peer	
	d. Master	
	In a, the kernel can execute on any processor, and typically each	
	processor does self-scheduling from the pool of available processes or threads.	
100)	a) master/slave	a
100)	b) symmetric multiprocessor	
	c) cluster	
	d) SIMD	

	Question Bank of	A
	CA 8 .4 Advanced Computer Graphics(254804)	N
	Cit o i- riavancea Computer Grapmes(25-100-1)	S
1)	Which of the following is the Computer Graphics application-	d
	a. Statistical Representation	
	b. Image Formation	
	c. Information Retrieval	
	d. Computation Physics	
2)	Hardwar pipeline consists ofphase.	c
	a. Circuits	
	b. Ports	
	c. Computations	
	d. Discs	
3)	Which of the following is computational Phase-	a
	a. Rasterization	
	b. Vectorization	
	c. Segmentation	
	d. Transition	
4)	The quality of Image depends on –	a
	a. No. of Pixels used by image	
	b. No. of lines used by image	
	c. No. of resolution used by image	
	d. None of these	
5)	Types of Computer Graphics are-	b
	a. Scalar and raster	
	b. Vector and raster	
	c. Vector and scalar	
	d. None of these	
6)	Components of iterative computer graphics are	d
	a. A light pen	
	b. Display unit	
	c. Bank of switches	
	d. All of the above	
7)	Computer Graphics models are commonly used for making-	d
	a. Television show	
	b. Motion Pictures	
	c. Music Videos	
	d. All of the above	

8)	Graphics programs are those which creates-	b
	a. Images	
	b. Pictures	
	c. Designs	
	d. All of the above	
9)	The process of determining the appropriate pixels for representing picture or	b
	graphics object is known as	
	a. animation	
	b. Rasterization	
	c. Both a & b	
	d. representation	
10)	A World- coordinate area selected for display is called is	b
	a. Graphics	
	b. Window	
	c. GUI	
	d. None of the above	
11)	Solid pattern in random scan display is to fill	b
	a. Easy	
	b. Difficult	
	c. Not fill	
	d. None of the above	
12)	In beam penetration method of color CRT, two layer phosphor coated are-	a
	a. Red and blue	
	b. Red and green	
	c. Blue and green	
	d. None of the above	
13)	LCD is an	b
	a. Emissive	
	b. Non Emissive	
	c. Expensive	
	d. None	
14)	A technique by which the vertical and/or horizontal scan frequency of video	a
	signal can be changed for Different purpose and application is called	
	a. scan conversion	
	b. Polygon filling	
	c. Two dimensional graphics	
	d. Antialiasing	
15)	DSVT stands for	c
	a. Digital View Storing Table	
	b. Digital Visual Storage Tube	
	c. Direct View Storage Tube	
	d. Digital View Storage Tube	

16)	Sequencing and display of a set of images to create a visual change effect is	a
10)	called	a
	a. Computer animation	
	b. Computer graphics	
	c. Computer Videography	
17)	d. Computer image terminals	
17)	Which of the following are Computer graphics coordinates systems –	c
	a. Two Dimensional Co-ordinates System	
	b. Three Dimensional Co-ordinates System	
	c. Both a and b	
	d. None of the above	
18)	Each image used in sequence by video is said to be	c
	a. Entity	
	b. Instance	
	c. Frame	
	d. Block	
19)	Line consists of how many number of coordinates	c
	a. 2	
	b. 3	
	c. 4	
	d. None	
20)	Which is reflection about origin	b
	a. $x' = x , y' = -y$	
	b. $x' = -x$, $y' = -y$	
	c. x' = x , y' = y	
	d. $x' = -x$, $y' = y$	
21)	"The boundary is specified in a single color, and the algorithm proceeds pixel by	b
	pixel until the boundary color is encountered "- These statement defines which of	
	the following algorithm	
	a. Scan-fill algorithm	
	b. Boundary-fill algorithm	
	c. Entire fill algorithm	
	d. Slide curve algorithm	
22)	The Process of colouring the area of polygon is called	b
22)	a. Polygon flow	
	b. Polygon filling	
	c. Aliasing	
	d. None of these	
	u. Indie di mese	

23)	Movin	g, Resizing ,changing direction of an object refer as	d
	a.	Translation	
	b.	Rotation	
	c.	Scaling	
		Transformation	
24)	Consid	ler point (x,y), moving the point to(x',y') by adding some value dx,dy is	a
	called		
	a.	Translation	
	b.	Rotation	
	c.	Scaling	
	d.	None	
25)	Consid	ler point (x,y),rotating point about origin by angle theta is called as	b
	a.	Translation	
	b.	Rotation	
	c.	Scaling	
	d.	None	
26)	Which	is reflection about x-axis	b
	a.	x' = x , y' = -y	
	b.	x' = -x, y' = -y	
	c.	x' = x , y' = y	
	d.	x' = -x , y' = y	
27)	which	equation is correct about Scaling	a
	a.	X' = Sx * X, Y' = Sy * Y	
	b.	X' = Sx * Y, Y' = Sy * Y	
	c.	X' = Sx * X , Y' = Sy * X	
	d.	X' = Sx * X, Y' = Sx * Y	
28)	An elli	pse can also be rotated about its centre coordinates by rotating	b
	a.	End points	
	b.	Major and minor axes	
	c.	Only A	
	d.	None	
29)	Which	is reflection about y-axis	d
	a.	x' = x , y' = -y	
	b.	x' = -x, y' = -y	
	c.	x' = x , y' = y	
	d.	$x' = -x, \ y' = y$	

30)	which	of the following is/are line clipping algorithm	c
	a.	Cohen sutherland algorithm	
	b.	Cyrus-beck algorithm	
	c.	Both a & b	
	d.	None of these	
31)	Cohen	Sutherland algorithm is algorithm	b
	a.	Polygon clipping	
	b.	Line clipping	
	c.	Point clipping	
	d.	None of these	
32)	Cyrus	-Back algorithms is algorithm	c
	a.	Polygon clipping	
	b.	Point clipping	
	c.	Line clipping	
	d.	None of these	
33)	A line	with endpoints codes as 0000 and 0100 is ?	a
	a.	Partially invisible	
	b.	Completely visible	
	c.	Completely invisible	
	d.	Trivially invisible	
34)	Some	common clipping includes	d
		Curve clipping	
	b.	Polygon clipping	
	c.	Point clipping	
		All of the above	
35)	_	ocess of mapping a world window in world coordinates system to	a
		ort are called	
		Trasformation Viewing	
		Viewport	
		Clipping window	
		Screen coordinates system	
36)		approaches are used for determine whether a particular point is inside or	c
	outsid	e of polygon	
	a.	_ , , , , , , , , , , , , , , , , , , ,	
	b.	Winding number method	
		Both a &b	
	d.	None of these	

37)	The se	lection and separation of a part of text or image for further operation are	d	
	called	as		
	a.	Translation		
	b.	shear		
	c.	Rotation		
	d.	Clipping		
38)	All the	chidden surface algorithms employees image space approach except	d	
	a.	Depth sort method		
	b.	Scan line method		
	c.	Depth buffer method		
	d.	Back face removal		
39)	The fir	est viewing parameter we Must consider is the?	b	
	a.	view reference plane		
	b.	view reference point		
	c.	viewing window		
		Shifting vector		
40)	Region code of point within the window is a			
	a.	0000		
	b.	0001		
	c.	1000		
	d.	1111		
41)	The	algorithms divide 2D space into 9 regions of which only the	a	
	middle	e parts(viewport) is visible.		
	a.	Cohen Sutherland algorithm		
	b.	liangBarsky		
	c.	SutherlangHodgman		
	d.	None of these		
42)	A Bez	ier curve is a polynomial of degreethe no of control points	b	
	used			
	a.	One more than		
	b.	One less than		
	c.	Two less than		
	d.	None of these		
43)	Bezier	spline always passes through	a	
	a.	First and second control point		
	b.	Does not pass from First and second control point		
	c.	Both a & b		
L	d.	None of these		

44)	The B	ezier curve obtained from the four control points is called a	b
	a.	Square Bezier curve	
	b.	Cubic Bezier curve	
	c.	Hectare Bezier curve	
	d.	Rectangle Bezier curve	
45)	The o	orthographic projection that show more than one side of an object are called	b
	a.	Axonometric projection	
	b.	Isometric projection	
	c.	Both a & b	
	d.	None of these	
46)	The pr	rojection that can be viewed as the projection that has a centre of projection	b
		nite distance from the plane of projection are called	
		Parallel projection	
	b.	Perspective projection	
	c.	Isometric projection	
	d.	None of these	
47)	The sh	ape of a Bezier curve primarily depends upon the	a
		Position of control points	
		Distance of control points	
		Position of control panel	
		None of these	
48)	The no	o of control points in a Bezier curve ensures the	b
	a.	Jaggies of curve	
	b.	Smoothness of curve	
	c.	Straightness of curve	
	d.	None of these	
49)	What	is Shearing is also termed as	a
	a.		
	b.	Translating	
	c.	Moving	
	d.	None of the above	
50)	The m	ethod which is based on the principle of checking the visibility point at	b
	each p	ixel position on the projection plane are called	
	a.	Object-space methods	
	b.	Image-space methods	
	c.	Both a & b	
	d.	None of these	

51)	Which	surface algorithm is based on perspective depth ?	b
	a.	Depth comparison	
	b.	Z-buffer or depth-buffer algorithm	
	c.	subdivision method	
	d.	back-face removal	
52)	A fast	and simple method for rendering an object with polygon surface is	c
	a.	Constant-intensity shading	
	b.	Flat shading	
	c.	Both a & b	
	d.	None of these	
53)	Which	one is not the neighbour of a pixel (x,y) in 4 -connected method?	d
	a.	(x,y+1)	
	b.	(x+1,y+1)	
	c.	(x,y-1)	
	d.	none of these	
54)	Variou	is curve functions are useful in	a
	a.	Object modeling	
	b.	Graphics applications	
	c.	Animation path specifications	
		All of the given	
55)	The be	est hidden surface removal algorithm is ?	c
	a.	Depth buffer	
	b.	Area subdivision	
	c.	Depends on the application	
	d.	painters	
56)	Engine	eering drawing commonly applies ?	a
	a.	orthographic projection	
	b.	oblique projection	
	c.	perspective projection	
	d.	none of the above	
57)	Back f	face removal is an example of ?	c
	a.	combination of both	
	b.	image space method	
	c.	object space method	
	d.	none of the above	
58)	Obliqu	ne projection with an angle of 45 degree to the horizontal plane is called as	b
	a.	Cabinet projection	
	b.	Cavalier projection	
	c.	Isometric projection	
	d.	None of these	

59)	A transformation that slants the shape of objects is called the	b
	a. reflection	
	b. shear transformation	
	c. translation	
	d. none of these	
60)	The region code of a point is 1001. The point is in theregion of	b
	window.	
	a. Top right	
	b. Top left	
	c. Bottom left	
	d. Bottom right	
61)	The equation for describing surface of 3D plane are	a
	a. $Ax + By + Cz + D = 0$	
	b. $Ax + By + Cz = 0$	
	c. $Ax + By + D = 0$	
	d. $Ax + By + Cz + D = 1$	
62)	The Bezier curve obtained from the four control points is called a	b
	a. Square Bezier curve	
	b. Cubic Bezier curve	
	c. Hectare Bezier curve	
	d. Rectangle Bezier curve	
63)	The shape of a Bezier curve primarily depends upon the	a
	a. Position of control points	
	b. Distance of control points	
	c. Position of control panel	
	d. None of these	
64)	More the control points of a Bezier curve, quality of the curve	a
	a. Higher	
	b. Lower	
	c. Bad	
	d. None of these	
65)	is a flexible strip that is used to produce smooth curve using a set of point	a
	a. Spline	
	b. Scan-line method	
	c. Depth-sorting method	
	d. None of these	
66)	The equation for describing surface of 3D plane are	a
	a. $Ax + By + Cz + D = 0$	
	b. $Ax + By + Cz = 0$	
	c. $Ax + By + D = 0$	
	d. $Ax + By + Cz + D = 1$	

67)	The array are used with scan line coherence algorithm are	С
	a. For intensity value	
	b. For depth value	
	c. Both a & b	
	d. None of these	
68)	The painter algorithm were developed on	a
	a. 1972 by Newell	
	b. 1972 by Evans	
	c. 1974 by Cat mull	
	d. None of these	
69)	The painter algorithm are also called	С
	a. Depth sort algorithm	
	b. Priority algorithm	
	c. Both a & b	
	d. None of these	
70)	The painter algorithm are based on the property of	b
	a. Polygon	
	b. Frame buffer	
	c. Depth buffer	
	d. None of these	
71)	What is x-shear?	d
	a. $x'=x+shx.y$, $y'=y$	
	b. $x'=x+shx. x, y'=y$	
	c. $y'=x+shx.y$, $x'=x$	
	d. $y'=y+shy. x$, $x'=x$	
72)	What is y-shear?	a
	a. $x'=x+shx. y, y'=y$	
	b. $x'=x+shx$. $x', y'=y$	
	c. $y'=x+shx. y$, $x'=x$	
	d. $y'=y+shy. x$, $x'=x$	
73)	How many steps required for composite transformation	c
	a. One	
	b. Two	
	c. Three	
	d. None of the above	
74)	The scan line coherence algorithm was developed by	d
	a. Wylie	
	b. Evans	
	c. Cat mull	
	d. Both a & b	

75)	What is true for an rotate an object about an arbitrary point?	b
	a. Rotate it about the origin, Translate point to the origin	
	b. Translate point to the origin, Rotate it about the origin, translate the	
	center of rotation back where it belonge	
	c. Translate point to the origin, Scale it about the origin, translate the center	r
	of rotation back where it belonge	
	d. None of the above	
76)	A many sided figure is termed as	b
	a. Square	
	b. Polygon	
	c. Rectangle	
	d. None	
77)	Ray-tracing is an extension of	b
	a. Ray calling	
	b. Ray casting	
	c. Ray sampling	
	d. Ray coherence	
78)	Scan lines are used to scan from	a
	a. Top to bottom	
	b. Bottom to top	
	c. Both a & b	
	d. None of these	
79)	In displaying a clipped picture the efficient method is ?	D
	a. Clipping against the window and then applying the window	
	transformation	
	b. Applying window transformation and then clipping against the view port	
	c. Both A and B have the same efficiency	
	d. Efficiency depends on whether the window is an aligned rectangle or not	
	d. Efficiency depends on whether the window is an anglied rectangle of not	
80)	The anti - aliasing technique which allows shift of 1/4,1/2 and 3/4 of a pixel	d
00)	diameter enabling a closer path of a line is?	u
	a. Filtering	
	b. Pixel phasing	
	c. Sampling technique	
	d. Intensity compensation	
81)	The amount of light emitted by the phosphor coating depends on the?	a
	a. Number of electrons striking the screen	
	b. Speed of electrons striking the screen	
	c. Distance from the cathode to the screen	
1	d. None of above	- 1

82)	Lower	persistence phosphorus is used in	a
	a.	Animation	
	b.	Simple object	
	c.	Complex object	
	d.	All of these	
83)	Highe	r persistence phosphorus needs refresh rate	a
	a.	Lower	
	b.	Higher	
	c.	Medium	
	d.	None of these	
84)	Phosp	horus are of various types depending on	c
	a.	Color	
	b.	Persistence	
	c.	both a & b	
	d.	none of these	
85)	The su	ubtractive color model use the concept of	a
	a.	Printing ink	
	b.	Light to display color	
	c.	Printing line	
	d.	None of these	
86)	A fast	and simple method for rendering an object with polygon surface is	С
	a.	Constant-intensity shading	
	b.	Flat shading	
	c.	Both a & b	
	d.	None of these	
87)	The ba	asic parameter to curved attributes are?	d
	a.	Width	
	b.	Color	
	c.	Type	
	d.	All of above	
88)	Raster	curves of various widths can be displayed using?	d
	a.	Horizontal and vertical spans	
	b.	Vertical spans	
	c.	Horizontal spans	
	d.	Horizontal or vertical spans	
89)	If the	magnitude of the curve slope is lesser than 1, then?	b
	a.	We can plot horizontal spans	
	b.	We can plot vertical spans	
	c.	Both A & B	
L	d.	None of above	

90)	If the slope magnitude is 1, then circles, ellipse and other curves will appear?	С
ĺ	a. Rough	
	b. Big	
	c. Thinnest	
	d. Thick	
91)	One of the method for displaying thick curves is?	b
71)		
	a. Curve cap	
	b. Curve slope	
	c. Curve width	
	d. None of above	
92)	The function of the pixel mask is?	a
	a. To display dashes and inter dash spaces according to the slope	
	b. To display curved attributes	
	c. To display the thick curves	
	d. None of above	
93)	The curves displayed with a rectangular pen will be?	a
, ,	a. Thicker and magnitude slope is 1	
	b. Thicker and magnitude slope >1	
	c. Thinner	
0.4	d. None of above	
94)	Choose the correct representation of Hyperbola?	a
	$a.\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$	
	$b.\frac{y^2}{a^2} - \frac{x^2}{b^2} = 1$	
	$c. \frac{a^2}{x^2} - \frac{b^2}{y^2} = 1$	
	$c. \frac{1}{x^2} - \frac{1}{y^2} = 1$	
	d. None of these	
95)	is a flexible strip that is used to produce smooth curve using a set of point.	a
	a. Spline	
	b. Scan-line Method	
	c. Depth Sorting Method	
96)	d. None of above The types of spline curve are	С
90)	a. Open spline	
	b. Closed spline	
	c. Both a & b	
	d. None of these	
97)	Which of following the light or reflection types	d
	a) Specular	
	b) Diffuse	
	c) Ambient	
	d) All of the above	

98)	Phong shading algorithm interpo	olates the Phong shading algorithm interpolates the	a
	normals and compute lighting d	uring	
	a) rasterization		
	b) Vectorization		
	c) Segmentation		
	d) Transition		
99)	Final illumination of a point (Ve	ertex)	d
	a) Ambient		
	b) Diffuse		
	c) Specular		
	d) None of these		
100)	Gouraud Shading can be done u	sing	b
	a) Goolge		
	b) OpenGL		
	c) Raster		
	d) None of the above		

	Question Bank of CA-8.5 Optimization Algorithms(254805)	A N
	CA-6.5 Optimization Algorithms(254605)	S
1.	Operations Research was known as an ability to win a war without really going in to a A. Battlefield B. Fighting C. War D. Both A andB	D
2.	Who defined Operations Research as an aid for the executive in marketing his decisions by providing him with the quantitative information based on the scientific method of analysis? A. C. Kitte B. H.M. Wagner C. E.L. Arnoff D. None of the above	A
3.	Which of the following is not required in LPP formulation? A. Write the hole problem B. Defining the decision variable C. Writing constraints D. Applying nonnegative constraints	A
4.	Which of the following use for LP to find optimal use of A. Money B. Manpower C. Machine D. All the above	D
5.	Operations Research helps in refining the of the result but doesn't give a perfect solution. A. Clarity B. Quality C. Both A and B D. Decisions	В
6.	Identify the Phases and Processes of Operations Research Study i. Observe the problem ii. Analysis and defining the problem iii. Developing model iv. Collecting data v. Coming up with solution vi. Qualifying the model and solution vii. Implement the solution A. i, ii, iii, iv, v, vii B. i, ii, iii, iv, vi, vii C. i, ii, iii, iv, v, vi, vii D. i, ii, iv, v, vii	С

	Which of the following techniques or tools of Operations Research?	D
7.	A. Queuing Theory	D
	B. Inventory Control Models	
	C. Network analysis	
	D. All of the above	
8.	Which of the following typical Applications/Scope of Operations Research	D
ο.	A. Finance, Budgeting and Investments	D
	B. Purchasing, Procurement and Exploration	
	C. Production Management	
	D. All of the above	
9.	Which of the following techniques or tools of Operations Research?	D
	A. Replacement Problems	
	B. Sequencing	
	C. Integer Programming	
	D. All of the above	
10.	Which of the following techniques or tools of Operations Research?	D
	A. Assignment Problems	
	B. Transportation Problems	
	C. Decision Theory and Games Theory.	
	D. All of the above	
11.	Which of the following techniques or tools of Operations Research?	D
	A. Dynamic Programming	
	B. Simulation	
	C. Symbolic Logic	
	D. All of the above	
12.	Which of the following techniques or tools of Operations Research?	D
	A. Symbolic Logic	
	B. Goal-programming	
	C. Markov Analysis	
	D. All of the above	
13.	Which are not advantages of Operations Research?	D
	A. Better Decision	
	B. Better System	
	C. Better Control	
	D. None of the above	
14.	Which is not Personnel Management operational research role?	D
	A. Selection of suitable personnel.	
	B. Assignment of jobs.	
	C. Skills balancing.	
i	D. All of the above	

15.	Which is not Marketing operational research role?	С
10.	i. Product selection, timing, etc.	
	ii. Advertising media, budget allocation.	
	iii. Number of salesman required.	
	iv. Selection of product mix.	
	A. Only i	
	B. Both i , ii	
	C. All i, ii ,iii , iv	
	D. None of the above	
16.	Graphical methods contain how many special cases?	D
	A. One	
	B. Two	
	C. Three	
	D. Four	
17.	Who is father of operation research	A
1 / .	A. Philip M. Morse	A
	B. J.F. McCloskey	
	C. F.N. Trefethen	
	D. P.F. Adams	
18.	Operations Research (OR), is a used for	С
	A. Operations	
	B. Research	
	C. Decision – Making	
	D. None of the above	
19.	Operation research having how many principles?	C
	A. Four	
	B. Five	
	C. Seven	
	D. None of the above	
20.	In which year term Operations Research was invented	A
	A. 1940	
	B. 1950	
	C. 1978	
	D. 1960	
21.	Maximum P: 20x + 35y	С
	Subject to: $x + 2y \ge 34$	
	$3x + 4y \ge 90$	
	Where $x, y \ge 0$	
	A. Multiple Optimal Solutions	
	B. Infeasible Solution	
	C. Unbounded Solution	
	D. None of the above	

22.	In simp	olex method, if constraint is of type less than equal to than we add	A
	A.	Slack Variable	
	B.	Surplus Variable	
	C.	Artificial Variable	
	D.	None of the above	
23.	Each L	PP is connected with another LPP is called	В
	A.	Primal	
	B.	Dual	
	C.	Non-linear programming	
	D.	None of the above	
24.	Operati	ions Research approach is	В
	A.	Multi-disciplinary	
	B.	Scientific	
	C.	Initiative	
	D.	All of the above	
25.	Decisio	on variables are	D
	A.	Scientific	
	B.	Initiative	
	C.	Multi-disciplinary	
	D.	None of the above	
26.	The qu	antitative approach to decision analysis is	В
	A.	Logical approach	
	B.	Rational approach	
	C.	Scientific approach	
	D.	All of the above	
27.		s being considered as one of the most versatile management tools?	В
		Electronic Computers	
		Linear Programming	
		Computer Programming None of the above	
28.		imized objective function having function	A
_0.		Profit	A
		Active	
		Passive	
		None of the above	
29.		solved which kind of resource allocation problems?	D
		Production planning & scheduling	
	В. С.	Assignment Problem Game theory	
		All of the above	

30.	The following primal having how many dual constraints	Α
50.	Maximum P: 12x + 13y	A
	Subject to: $5x + 2y \le 140$	
	$3x + 6y \le 190$	
	where $x, y \ge 0$	
	A. Two	
	B. Three	
	C. Four	
	D. None of the above	
31.	The following primal having how many dual constraints	A
51.	Minimum P: 15x + 13y	7.
	Subject to: $5x + 12y \ge 60$	
	$30x + 60y \ge 90$	
	$x + 2y \le 40$	
	where $x, y \ge 0$	
	A. Two	
	B. Three	
	C. Four	
	D. None of the above	
32.		Α
52.	A. Yes	A
	B. No	
33.	What is dual of any primal who's having objective function Minimize?	A
55.	A. Maximize	A
	B. Minimize	
	C. Both A & B	
	D. None of the above	
34	Maximum P: 2x + 3y	D
	Subject to: $6x + 2y \le 12$	
	$4x + 2y \le 16$	
	Where $x, y \ge 0$	
	A. Multiple Optimal Solutions	
	B. Infeasible Solution	
	C. Unbounded Solution	
2.5	D. Redundant Constraint	D
35.	LPP infeasible solution goes to	D
	A. First Quadrant	
	B. First and Second Quadrant	
	C. Second Quadrant	
26	D. None of the above	
36.	· · · · · · · · · · · · · · · · · · ·	
	A. Negativity Constraint	
	B. Basic Constraint	
	C. Non-negativity Constraint	
	D. Common Constraint	

37.	The ob	jective function Minimized $C = 2x + y$ with respect to the feasible region at which	D
57.		gives minimum cost?	
	-	(3,2)	
		(5,0)	
		(2,4)	
		(0,7)	
38.		ear function in LPP having	C
		Decision variable	
		Constraints	
		Objective Function	
		Nonnegative constraints	
39.		um P: 2x + 3y	В
		to: $6x + 2y \le 12$	
	a arejee	4x + 2y >= 16	
	Where	$x,y \ge 0$	
		Multiple Optimal Solutions	
		Infeasible Solution	
		Unbounded Solution	
40	1	Redundant Constraint	
40.		plex method key column is also called	A
		Pivot Column	
		Plan Column	
		Both A & B	
	D.	None of the above	
41.	In simp	plex method key row is also called	В
	_	Plan row	
	B.	Pivot row	
	C.	Both A & B	
	D.	None of the above	
12	T1 1.	in the formation Manifester ID 22 or the middle of the facility and the fa	D
42.		jective function Maximized $P = 3x + 4y$ with respect to the feasible region at which	ע
		gives maximum Profit?	
		(0,2)	
		(3,0)	
		(4,2)	
12		(2,4)	<u>C</u>
43.		ction of key row and key column is also called	C
		Pivot Element	
		Key Element	
		Both A & B	
	D.	None of the above	
44.	In two	phase method phase the phase1 start with	В
		If solution is feasible	
		If solution is infeasible	
		If solution is unbounded	
		None of the above	
1			

45.	Variabl	es are unrestricted in nature means what?	C
		Variable values are positive	
	В.	Variable values are negative	
		Both A & B	
		None of the above	
46.		degenerate solution in transportation problem?	A
		Number of stone square less than required stone square	
		Number of stone square greater than required stone square	
		Number of water square less than required water square	
		Number of water square greater than required water square	
		mization cases, are assigned to the artificial variables as their coefficients	B
	in the o	bjective function	
	A.	+m	
	B.	-m	
	C.	0	
		None of the above	
40			~
48.		s unbalanced transportation problem?	C
		Total number of stone square less than total number water square	
		Total number of water square less than total number stone square	
		Total supply is not equal to total demand	
40		None of the above	•
49.		sportation Problem, the initial solution can be generated how many ways	C
		One	
		Two	
		Three	
50		None of the above	~
50.		rpose of the stepping-stone method is to	C
		Develop the initial solution to the transportation problem.	
		Determine whether a given solution is feasible or not.	
		Assist one in moving from an initial feasible solution to the optimal solution.	
		Identify the relevant costs in a transportation problem	
		otal supply is equal to total demand in a transportation problem, the problem is said	В
	to be 1.		
		Degenerate	
		Balanced	
		Unbalanced	
		None of the above	_
52.		method is used for solving LPP in a finite number of stages?	D
	A.	1 6	
	В.	1	
		M method	
	D.	Simplex method	
53.	What is	LCM ?	В
		LabelChange Method	
		Least Cost Method	
		LimittedChange Method	
		None of the above	
1			

54.	Which	of the following is a not special case in transportation problem?	D
	A.	Unbalanced transportation problem	
	B.	Maximized transportation problem	
	C.	Prohibited routes transportation problem	
	D.	None of the above	
55.	Which	of the following is a special case in transportation problem?	C
	A.	Modified Distribution Method	
	B.	Stepping stone	
	C.	Maximization Objective	
	D.	Travelling salesman	
56.	In VAN	M to a profit maximization problem, row and column penalties are determined by:	C
	A.	Finding the largest unit cost in each row or column.	
	B.	Finding the smallest unit cost in each row or column.	
	C.	Finding the difference between the two lowest unit costs in each row and column.	
	D.	Finding the difference between the two highest unit costs in each row and column.	
57.	What is	s the size of matrix in assignment problems?	C
		A. m x n	
		B. n x m	
		C. n x n	
		D. None of the above	
58.	What is	s CPA?	D
	A.	Critical Power Analysis.	
	B.	Critical Payment Analysis.	
	C.	Critical Path Algorithm	
	D.	Critical Path Analysis	
59.		ork not contain more than one critical path exist?	B
		Yes	
		No	
60.	PERT 1	ffsd	B
	A.	(a+4m+b)/3	
	B.	(a+4m+b)/6	
	C.	(a+4c+2b)/d	
	D.	None of the above	
61.		CM requires that we start allocating units to shipping routes in the:	C
		Lower right corner of the table.	
		Upper right corner of the table.	
	C.	Highest costly cell of the table.	
	D.	Upper left-hand corner of the table.	
62.	Which	of the following is not used to come up with a solution to the transportation	D
	probler	n?	
	A.	MODI method	
	B.	northwest corner method	
	C.	stepping-stone method	

63.		of the following is a float time	A
	A.	Total Float	
		Frequency Float	
	C.	Activity Float	
		Parallel Float	
64.	Which	of the following is a zero-sum game?	B
	A.	Prisoners' dilemma	
	B.	Chess	
	C.	A cartel member's decision regarding whether or not to cheat	
	D.	All of the above	
65.	To rep	resent event in a network diagram used.	В
	A.	Arrows	
	B.	Circles	
	C.	Squares	
		Rectangles	
66.		mon assumption about the players in a game is that	D
		neither player knows the payoff matrix.	
		the players have different information about the payoff matrix.	
		only one of the players pursues a rational strategy.	
		the specific identity of the players is irrelevant to the play of the game.	
67.		ro-sum game,	Α
07.		what one player wins, the other loses.	11
		the sum of each player's winnings if the game is played many times must be zero.	
		the game is fair—each person has an equal chance of winning.	
	l l	long-run profits must be zero.	
68.		of the following is not game type?	D
06.		Nonzero-sum game.	ע
	l l	<u> </u>	
		zero-sum game Both A & B	
	D.	None of the above	
69.		the father of game theory?	A
		John von Neumann	
	B.	Emile Borel	
	C.	Kenneth Binmore	
	D.	None of the above	
70	In gam	e theory negative values in playoff matrix indicate?	C
70.		Having loss to one of the player	C
		Having again to one of the player	
		Both A & B	
		None of the above	
71		s row Dominance?	
71.	l l		A
	Α.	If all the elements of a Row-i < = Row-j, then the Row-i is dominated by the Row-i and it is removed from the matrix	
		j and it is removed from the matrix.	
1	В.	If all the elements of a Row-i> = Row-j, then the Row-i is dominated by the Row-	
		j and it is removed from the matrix.	
	C.	If all the elements of a Row-i< = Row-j, then the Row-j is dominated by the Row-	
	_	j and it is removed from the matrix.	
	D.	None of the above	

72.	Zero sum game has to be a game.	C
	A. Single player	
	B. Two player	
	C. Multiplayer	
	D. Three player	
73.	How many types of zero sum game?	
	A. One	
	B. Two	
	C. Three	
	D. None of the above	
74.	Check from following which playoff matrix having saddle point?	A
	A. $\begin{bmatrix} 3 & 2 \\ 4 & 5 \end{bmatrix}$ B. $\begin{bmatrix} 5 & 2 \\ 7 & 9 \end{bmatrix}$ C. $\begin{bmatrix} 6 & 9 \\ 13 & 5 \end{bmatrix}$ D. $\begin{bmatrix} 10 & 2 \\ -4 & 5 \end{bmatrix}$	
75.	Check from following which playoff matrix having column dominance?	C
	A. $\begin{bmatrix} 13 - 2 \\ 14 & 15 \end{bmatrix}$ B. $\begin{bmatrix} 50 & 20 \\ 70 & 90 \end{bmatrix}$ C. $\begin{bmatrix} -6 & 19 \\ 5 & 12 \end{bmatrix}$ D. $\begin{bmatrix} 20 & 25 \\ 25 & 10 \end{bmatrix}$	
	<u> </u>	
76.	Which is not of type mixed strategy game?	D
	A. 2 x 2	
	B. 2 x n	
	C. m x n	
	D. None of the above	
77.	Which is the method used to solve mixed strategy game?	D
	A. Algebraic Method	
	B. Sub game Method	
	C. Graphical Method	
	D. None of the above	
78.	If the payoff matrix of the type "m x n" size then which methods not used to solve	A
	A. Algebraic Method	
	B. Sub game Method	
	C. Dominance Method	
	D. Simplex Method	
79.	If the payoff matrix of the type "2 x n or m x 2" size then which methods used to solve	C
	A. Big Omega Method	
	B. Pickup Method	
	C. Sub game Method	
	D. None of the above	
80.	Each participant in game is called	A
	A. Player	
	B. Strategy	
	C. Payoff	
	D. Game	
81.	What is first step to solve problem of mixed strategy game?	В
	A. Finding sub games	
	B. Finding Saddle point	
	C. Finding row and column dominance	
	D. None of the above	

82.	A play	of the game occurs when each player has chosen	В
o <u>-</u> .		Player	
		Strategy	
		Both A & B	
		None of the above	
83.	A gam	e with two players, where a gain of one player equals the loss to the other is known	C
		Multiple person zero sum game	
		One person zero sum game	
		Two person zero sum game	
		Three player	
84.		e theory which following problem cannot solved using graphical method?	C
		2 x n	
	B.	m x 2	
	C.	m x n	
		None of the above	
85.	In gam	e theory which following problem can be solved using graphical method?	A
		2 x n	
	B.	3 x 4	
	C.	m x n	
	D.	All of the above	
86.	What i	s column Dominance?	В
	A.	If all the elements of a Column-i < = Column-j, then the Column-i is dominated by	
		the Column-j and it is removed from the matrix.	
	В.	If all the elements of a Column-i> = Column-j, then the Column-i is dominated by	
		the Column-j and it is removed from the matrix.	
	C.	If all the elements of a Column-i < = Column-j, then the Column-j is dominated by	
		the Column-j and it is removed from the matrix.	
	D.	None of the above	
87.	PERT	analysis is based on	D
		optimistic time	
		pessimistic time	
		most likely time	
		all the above.	
88.	In whice	ch phase is optimization done and how does that phase also checks for optimality	C
	conditi		
	A.	Phase III	
	B.	Phase I	
	C.	Phase II	
	D.	None of the above	
89.		of these statements about the stepping-stone method is best?	A
		Only squares containing assigned shipments can be used to trace a path back to an	
		empty square.	
	В.	An improvement index that is a net positive means that the initial solution can be	
		improved.	
	C.	A dummy source and destination must be added if the number of rows plus	
		columns minus 1 is not equal to the number of filled squares.	
	D.	Only empty squares can be used to trace a path back to a square containing an	
	•	assigned shipment.	
	i .	υ · r · · ·	1

A. Maximize B. Minimize C. Both A & B D. None of the above 11. The difference between the maximum time available and the actual time needed to perform an activity is known as A. Free float B. Independent float C. Total float D. Half float 22. Which of the following is a special case in assignment problem? A. Modified Distribution Method B. Stepping stone C. Prohibited routes D. Travelling salesman 23. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 24. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 25. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 26. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 77. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
B. Minimize C. Both A & B D. None of the above 91. The difference between the maximum time available and the actual time needed to perform an activity is known as A. Free float B. Independent float C. Total float D. Half float 92. Which of the following is a special case in assignment problem? A. Modified Distribution Method B. Stepping stone C. Prohibited routes D. Travelling salesman 93. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 94. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 95. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems D. All of the above 96. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 97. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.	90.		В
C. Both A & B D. None of the above 91. The difference between the maximum time available and the actual time needed to perform an activity is known as A. Free float B. Independent float C. Total float D. Half float 92. Which of the following is a special case in assignment problem? A. Modified Distribution Method B. Stepping stone C. Prohibited routes D. Travelling salesman 93. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 94. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 95. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 96. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. O7. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
D. None of the above P1. The difference between the maximum time available and the actual time needed to perform an activity is known as		B. Minimize	
P1. The difference between the maximum time available and the actual time needed to perform an activity is known as			
perform an activity is known as			
A. Free float B. Independent float C. Total float D. Half float 22. Which of the following is a special case in assignment problem? A. Modified Distribution Method B. Stepping stone C. Prohibited routes D. Travelling salesman 23. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 24. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 25. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 26. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			C
B. Independent float C. Total float D. Half float B. Stepping stone C. Prohibited routes D. Travelling salesman D. Travelling salesman D. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above D. None of the above D. Malgebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n D. Malgebraic Method used to solve which type of payoff matrix A. 2 nalgebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n D. All of the queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above D. All of the above The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. C. first-in, first-out.			
C. Total float D. Half float D. A. Modified Distribution Method B. Stepping stone C. Prohibited routes D. Travelling salesman D. Travelling salesman B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above D. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n D. Malgebraic Method used to solve which type of payoff matrix A. 2 x 1 B. 2 x n C. m x 2 D. m x n D. Malgebraic Method used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems D. All of the above D. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
D. Half float D. Which of the following is a special case in assignment problem? A. Modified Distribution Method B. Stepping stone C. Prohibited routes D. Travelling salesman D. Travelling salesman B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above D. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n D. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above D. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. D. difference of the waiting cost and service cost. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.		•	
22. Which of the following is a special case in assignment problem? A. Modified Distribution Method B. Stepping stone C. Prohibited routes D. Travelling salesman 23. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 24. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 25. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 26. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 27. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
A. Modified Distribution Method B. Stepping stone C. Prohibited routes D. Travelling salesman 93. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 94. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 95. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 96. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.		D. Half float	
B. Stepping stone C. Prohibited routes D. Travelling salesman 33. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 34. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 35. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 36. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 37. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.	92.		D
C. Prohibited routes D. Travelling salesman 93. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 94. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 95. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 96. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 97. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
D. Travelling salesman 33. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 34. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 35. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 36. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 37. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
93. What is VAM? A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 94. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 95. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 96. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 97. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
A. Variable Assignment Method B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 94. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 95. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 96. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 97. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.		D. Travelling salesman	
B. Vogel's approximation method Prohibited routes C. Both A& B D. None of the above 24. An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 25. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 26. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 27. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.	93.		В
C. Both A& B D. None of the above An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
D. None of the above An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n 25. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 26. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 27. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
An Algebraic Method used to solve which type of payoff matrix A. 2 x 2 B. 2 x n C. m x 2 D. m x n The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
A. 2 x 2 B. 2 x n C. m x 2 D. m x n O5. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above O6. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. O7. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.		D. None of the above	
B. 2 x n C. m x 2 D. m x n 95. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 96. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 97. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.	94.	An Algebraic Method used to solve which type of payoff matrix	A
C. m x 2 D. m x n 95. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above 96. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 97. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.		A. 2 x 2	
D. m x n D. m x n The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
P5. The queuing theory is used to A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above P6. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. P7. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.		C. m x 2	
A. Analyze computer B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
B. Telecommunication systems / Traffic systems C. Logistic/ Manufacturing systems. D. All of the above The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.	95.		D
C. Logistic/ Manufacturing systems. D. All of the above 76. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 77. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
D. All of the above 96. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 97. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
76. The total cost of a queuing system is typically calculated as the A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 77. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
A. waiting cost. B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 77. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			-
B. service cost. C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. 77. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.	96.		C
C. sum of waiting cost and service cost. D. difference of the waiting cost and service cost. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.			
D. difference of the waiting cost and service cost. 7. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.		B. service cost.	
77. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.		C. sum of waiting cost and service cost.	
77. The case in which a customer joins a queue but then leaves before being served is called A. balking. B. reneging. C. first-in, first-out.		D. difference of the waiting cost and service cost.	
called A. balking. B. reneging. C. first-in, first-out.	97.		A
B. reneging. C. first-in, first-out.			
C. first-in, first-out.		A. balking.	
C. first-in, first-out.		B. reneging.	
		D. finite queue length.	

98.	Which	are elements of Queuing System	D
	i.	Arrival/Input Process	
	ii.	Waiting Process	
	iii.	Queuing/Service Discipline	
	iv.	Customer Behaviors	
	v.	Service Facility/ Mechanism	
	vi.	System Output	
		A. i iii, iv, v, vi	
		B. i, ii, iv, vi	
		C. i, ii, iii, iv, vi	
		D. i, ii, iii, iv, v, vi	
99.	What i	s SIRO	B
	A.	Scientific in Research Order (SIRO)	
	В.	Service in Random Order (SIRO)	
	C.	Scientific in Research Operation (SIRO)	
	D.	None of the above	
100.	In mos	t basic queuing models, the size of the arrival population is assumed to be	A
		·	
	A.	infinite	
	B.	finite	
	C.	constant	
	D.	all of the above	

	Question Bank of	ANG
	CA 1.3 Programming using C(254103)	ANS
1)	C Language developed at? A. AT & T's Bell Laboratories of USA in 1972 B. AT & T's Bell Laboratories of USA in 1970 C. Sun Microsystems in 1973 D. Cambridge University in 1972	A
2)	For 16-bit compiler allowable range for integer constants is? A3.4e38 to 3.4e38 B32767 to 32768 C32768 to 32767 D32668 to 3266	С
3)	C programs are converted into machine language with the help of A. An Editor B. A compiler C. An operating system D. None of the above	В
4)	A C variable cannot start with A. An alphabet B. A number C. A special symbol other than underscore D. both (b) and (c)	D
5)	Which of the following is allowed in a C Arithmetic instruction A. [] B.{} C. () D. None of the above	С
6)	Which of the following shows the correct hierarchy of arithmetic operations in C A./+*- B.*-/+ C.+-/* D.*/+-	D
7)	What is an array? A. An array is a collection of variables that are of the dissimilar data type. B. An array is a collection of variables that are of the same data type. C. An array is not a collection of variables that are of the same data type. D. None of the above.	В
8)	9. What is right way to Initialization array? A. intnum[6] = { 2, 4, 12, 5, 45, 5 }; B. intn{} = { 2, 4, 12, 5, 45, 5 }; C. intn{6} = { 2, 4, 12 }; D. intn(6) = { 2, 4, 12, 5, 45, 5 };	A

	An array elements are always stored in memory locations.	
	A. Sequential	
9)	B. Random	A
,	C. Sequential and Random	
	D. None of the above	
	What is the right way to access value of structure variable book{ price, page }?	
	A. printf("%d%d", book.price, book.page);	
10)	B. printf("%d%d", price.book, page.book);	A
10)	C. printf("%d%d", price::book, page::book);	
	D. printf("%d%d", price->book, page->book);	
	Which keyword can be used for coming out of recursion?	
	A. break	
	B. return	В
11)	C. exit	D
	D. Both (a) and (b)	
	D. Dotti (a) and (b)	
	Bitwise operators can operate upon?	
	A. double and chars	_
12)	B. floats and doubles	D
	C. ints and floats	
	D. ints and chars	
	What is C Tokens?	
	A. The smallest individual units of c program	
13)	B. The basic element recognized by the compiler	D
	C. The largest individual units of program	
	D. A & B Both	
	What is Keywords?	
	A. Keywords have some predefine meanings and these meanings can be changed.	
	B. Keywords have some unknown meanings and these meanings cannot be	
14)	changed.	С
_ ′	C. Keywords have some predefine meanings and these meanings cannot be	
	changed.	
	D. None of the above	
	What is constant?	
	A. Constants have fixed values that do not change during the execution of a	
	program	
15)	B. Constants have fixed values that change during the execution of a program	A
- /	C. Constants have unknown values that may be change during the execution of a	
	program	
	D. None of the above	
	Which is the right way to declare constant in C?	
	A. int constant var =10;	_
16)	B. intconstvar = 10;	D
	C. constintvar = 10;	
	D. B & C Both	

	Which operators are known as Ternary Operator?	
	A. ::, ?	
17)	B.?,:	В
	C.?;;;	
	D. None of the above	
	In switch statement, each case instance value must be?	
	A. Constant	
18)	B. Variable	A
- /	C. Special Symbol	
	D. None of the above	
	What is the work of break keyword?	
	A. Halt execution of program	
19)	B. Restart execution of program	C
17)	C. Exit from loop or switch statement	
	D. None of the above	
	For the below definition what is the data type of 'PI'	
	#define PI 3.141	
	A - Its float	
20)	B - Its double	C
	C - There is no type associated with PI, as it's just a text substitution	
	D - Syntax error, semi colon is missing with the definition of PI	
	The statement printf("%c", 100); will print?	
	A. prints 100	С
21)	B. print garbage	C
	C. prints ASCII equivalent of 100	
	D. None of the above	
	The memory allocation function modifies the previous allocated	
	space.	
22)	A. calloc	D
/	B. free	
	C. malloc	
	D. realloc	
	The following code 'for(;;)' represents an infinite loop. It can be terminated	
	by.	
		A
23)	A. break	71
	B. exit(0)	
	C. abort()	
	D. All of the mentioned	
	Which is the correct syntax to declare constant pointer?	
	A. int *constconstPtr;	D
24)	B. *int constant constPtr;	ע
	C. constint *constPtr;	
	D. A and C both	

	What will be the output of the following program ?	
	void main()	
	{	
	int $a = 2$;	
	switch(a)	
	{	
	case 1:	
	printf("goodbye"); break;	
	case 2:	A
25)	continue;	A
	case 3:	
	printf("bye");	
	}	
	A)error	
	B)goodbye	
	C)bye	
	D)byegoodby	
	What is the use of getchar()?	
	· · · · · · · · · · · · · · · · · · ·	
20	A. The next input character each time it is called	С
26)	B. EOF when it encounters end of file.	
	C. Both a & b	
	D. None of the mentioned	
	Which operator connects the structure name to its member name?	
	a) –	С
27)	b) <-	C
	c).	
	d) Both <- and . What will be output if you will compile and execute the following c code?	
	what will be output if you will complie and execute the following c code:	
	void main()	
	{	
	if(printf("cquestionbank"))	
	printf("I know c");	
20)	else	С
28)	printf("I know c++");	_
	}	
	A) I know c	
	B) I know c++	
	C) cquestionbankI know c	
	D) cquestionbankI know c++	

	What will be output if you will compile and execute the following c code?	
	#define message "union is power of c"	
	void main()	
	{	
	clrscr();	
	printf("%s",message);	A
29)	getch();	A
	}	
	A) union is power of c	
	B) union is Power of c	
	C) Compiler error	
	D) None of these	
	Bitwise operators can operate upon?	
	bitwise operators can operate upon.	
	A. double and chars	
20)	B. floats and doubles	D
30)	C. ints and floats	D
	D. ints and chars	
	D. Into the Chart	
	What will be the output of the following C code?	
	#include <stdio.h></stdio.h>	
	void main()	
	{	
	char *s = "hello";	
24)	char *p = s;	В
31)	printf("%p\t%p", p, s);	Ь
	}	
	,	
	A) Different address is printed	
	B) Same address is printed	
	C) Run time error	
	D) Nothing	

	What is the output of the following code?	
	main()	
	{	
	$\inf_{x \to 5} x = 5;$	
	if(x=5)	
	{	
	if(x=5) break;	
	printf("Hello");	A
	}	
	printf("Hi");	
	}	
	A - Compile error	
	B - Hi	
	C - HelloHi	
	D - Compiler warning	
	What is the built in library function to adjust the allocated dynamic memory	
	size.	
	A - malloc	В
	B - calloc	
	C - realloc	
	D –resize	
	What will be the output of the following C and 2	
	What will be the output of the following C code? #include <stdio.h></stdio.h>	
	void main()	
	$\begin{cases} 1 & \text{int } x = 5; \end{cases}$	
	if (true);	
	printf("hello");	
	}	В
34)		Ь
	A) It will display hello	
	B) It will throw an error	
	C) Nothing will be displayed	
	D) Compiler dependent	
	Which keyword can be used for coming out of recursion?	
35)	A) break	В
33)	B) return	
	C) exit	
	D) both break and return	

	A character variable can at a time store ?	
36)	A. 1 character	A
30)	B. 8 charactCr	
	C. 254 character	
	D. None of above	
	Which of the following is false in C?	
	A Varyyanda cannot ha usad as yanishla namas	
37)	A. Keywords cannot be used as variable names	Α
	B. Variable names can contain a digit C. Variable names do not contain a blank space	
	D. Capital letters can be used in variable names	
	The single character input/output functions are ?	
	A.scanf() and printf()	
38)	B.getchar() and printf()	В
30)	C.scanf() and putchar()	
	D.getchar() and putchar()	
	In which header file Null macro is defined?	
	in which header the rain macro is defined.	
20)	A. stdio.h	A
39)	B. iostream.h	71
	C. string.h	
	D. pre-processor	
	Null macro is ?	
40)	A. A macro with name Null	В
40)	B. A macro which represents Null pointer	
	C. A macro defined with no name	
	D. None of Above	
	How many times CppBuzz.com is printed?	
	int main()	
	{	
	a = 0;	
	while(a++);	
	{	
	printf("CppBuzz.com");	
41)	printi (Cppbuzz.com),	В
	return 0;	
	n court o,	
	J	
	(A) 0 time	
	(B) 1 time	
	(C) Compilation Error	
	(D) Infinite times	
L	(D) minute times	

	How many times CppBuzz.com is printed on console?	
	int main()	
	{	
	a = 0;	
	while(a++)	
	s willie(a++)	
	printf("CppBuzz.com");	
42)	prind(CppBuzz.com),	A
	return 0;	
	100000	
	(A) Nothing is printed on screen	
	(B) 0 time	
	(C) 1 time	
	(D) Infinite times	
	When C Language was invented?	
	(A) 1970	
		В
	(B) 1972	2
	(C) 1978 (D) 1979	
	(D) 1979	
	Name the function whose definition can be substituted at a place where its	
	function call is made	
1/1/11	a) friends function	В
	b) inline function	
	c) volatile function	
	d) external function	
	What is the following is invalid header file in C?	
	(A) math.h	В
	(B) mathio.h	Ь
	(C) string.h	
	(D) ctype.h	
	Libray function getch() belongs to which header file?	
	(A) stdio.h	В
_	(B) conio.h	D
	(C) stdlib.h	
	(D) stdlibio.h	
	Library function pow() belongs to which header file?	
	(A) mathio.h	В
47)	(B) math.h	ט
	(C) square.h	
	(D) stdio.h	
	Is it possible to run program without main() function?	В
	(A) Yes	D
1	(B) No	

	What is sizeof() in C?	
	(A) Operator	D
49)	(B) Function	В
	(C) Macro	
	(D) None of these	
	What is the output of following code?	
	int main()	
	_	
	int a = 5;	
	int b = 10;	
	int c = a+b; $ printf("%i",c);$	В
30)	$\mathcal{V}_{\mathcal{V}}$	
	J	
	(A) 0	
	(B) 15	
	(C) Undefined i	
	(D) Any other Compiler Error	
	Which of the following ways are correct to include header file in C program?	
	(A) #include <stdio.h></stdio.h>	D
51)	(B) #include"stdio.h"	D
	(C) # stdio.h	
	(D) Both A & B	
	Will compiler produce any compilation error if same header file is included two times?	
52)	two times:	В
32)	(A) Yes	
	(B) No	
	How does the string is stored in the memory?	
	A) Contiguous	
53)	B) Non-contiguous	A
	C) Null	
	D) sequence	
	What is the output of the following code?	
	#include "stdio.h"	
	int a = 20;	
	int main()	
	int a = 10;	
	printf("%d", a);	С
	return 0;	
	<u> </u>	
	(A) 20	
	(B) Ambiguity Error	
	(C) 10	
	(D) 0	

```
What is the output of the following code?
    #include "stdio.h"
    int main()
       int a = 10, b = 20;
       if(a=b)
         printf("Easy");
      else
                                                                                            A
55)
         printf("Hard");
       return 0;
    (A) Easy
    (B) Hard
    (C) EasyHard
    (D) Error in program
    Does this program get compiled successfully?
    #include stdio.h
    int main()
            printf("CppBuzz.com");
            return 0;
                                                                                            В
56)
    (A) Yes
    (B) No
    (C) Depend on processor
    (D) Error in program
    The format identifier '%i' is also used for _____ data type.
    A) char
                                                                                            В
57) B) int
    C) float
    D) double
    Which of the following is a logical AND operator?
    A) !
                                                                                            В
58) B) &&
    C) |
    D) &
```

Prototype of a function means	
A. Name of Function	_
B. Output of Function	C
C. Declaration of Function	
D. Input of a Function	
Name the loop that executes at least once.	
A. For 60) p. 16	C
´ D. 11	
C. do-while	
D. while	
What is a null pointer?	
a. Null pointer is a pointer which is pointing to nothing	D
b. Null pointer points the base address of segment	D
c. Pointer which is initialized with NULL value is considered as NULL point	ter.
d. All of the above	
C language was invented in which laboratories.?	
A) Uniliver Labs	
62) B) IBM Labs	C
C) AT&T Bell Labs	
D) Verizon Labs	
Each statement in a C program should end with.?	
A) Semicolon;	Α.
(63) B) Colon:	A
C) Period . (dot symbol)	
D) None of the above.	
Types of Integers are.?	
A) short	
64) B) int	D
C) long	
D) All the above	
Which of the following cannot be a structure member?	
a) Another structure	
65) b) Function	В
c) Array	
d) None of the mentioned	
Which of the following correctly shows the hierarchy of arithmetic operation	ns in
C?	
66) A. / + * -	D
B. * - / +	
C. + - / *	
D. / * + -	

	What characters are allowed in a C function name identifier?	В
	A) Alphabets, Numbers, %, \$, _	
67)	B) Alphabets, Numbers, Underscore (_)	
0.,	C) Alphabets, Numbers, dollar \$	
	D) Alphabets, Numbers, %	
	Arguments passed to a function in C language are called arguments.	
	A) Formal arguments	D
68)	B) Actual Arguments	В
	C) Definite Arguments	
	D) Ideal Arguments	
	Arguments received by a function in C language are called arguments.	
	A) Definite arguments	D
69)	B) Formal arguments	В
	C) Actual arguments	
	D) Ideal arguments	
	Choose a non Library C function below.	
	A) printf()	
70)	B) scanf()	D
	C) fprintf()	
	D) printf2()	
	What is the dimension of the C array int ary[10][5].?	
	A) 1	
71)	B) 2	В
	C) 5	
	D) 10	
	What is the dimension of the below C Array.	
	int ary[]={1,3,5,7};	
72)	A) 1	A
12)	B) 2	
	C) 3	
	D) 5	
	Array of Arrays is also called.	
	A) Multi Data Array	С
73)	B) Multi Size Array	
	C) Multi Dimensional Array	
	D) Multi Byte Array	
	What is the minimum number of functions to be present in a C Program.	
	A) 1	A
74)	B) 2	A
	C) 3	
	D) 4	
75)	How do you accept a Multi Word Input in C Language.	
	A) SCANF	С
	B) GETS	
	C) GETC	
	D) FINDS	

	Processor Directive in C language starts with.?	
	A) \$ symbol (DOLLAR)	D
76)	B) @ symbol (At The Rate)	D
	C) & symbol (Ampersand)	
	D) # symbol (HASH)	
	What is the abbreviation of C STDIO in stdio.h.?	
	A) Standard Input Output	
77)	B) String Terminating Operations Input Output	A
'''	C) Store Input Output	
	D) None of the above	
	,	
	If the two strings are identical, then strcmp() function returns	
70)	A) -1	С
/8)	B) 1	C
	C) 0	
	D) Yes	
	A pointer pointing to a memory location of the variable even after deletion of	
	the variable is known as	
79)	A for maintan	В
1,7)	A. far pointer	
	B. dangling pointer	
	C. null pointer	
	D. void pointer	
	Which standard library function will you use to find the last occurance of a	
	character in a string in C?	
	e e e e e e e e e e e e e e e e e e e	
80)	A) strnchar()	D
	B) strchar()	
	C) strrchar()	
	D) strrchr()	
	What is the output of this program?	
	#include <iostream></iostream>	
	using namespace std;	
	int main()	
	(_
81)	printf("value is = $\%$ d", (10 ++));	C
- /	return 0;	
1	 }	
1	a) 10	
1	b) 11	
1	c) Compile time error	
	d) run time error	
	In C Programming strcmp() function is used for	
02)	A. Convert String to Char	С
82)	B. Copy two Strings	
	C. Compare two Strings	
	D. None of these	
	p. r. one or more	DTO

	T	
	In C Programming '\a' is used for	
	A. Form feed	D
83)	B. Line Brake	D
	C. Select All	
	D. Alarm	
	Which of the following function sets first n characters of a string to a given	
	character?	
		В
84)	A.strinit()	Б
	B.strnset()	
	C.strset()	
	D.strcset()	
	How will you free the allocated memory ?	
85)	A. remove(var-name);	В
03)	B. free(var-name);	
	C. delete(var-name);	
	D. dalloc(var-name);	
	What will happen if in a C program you assign a value to an array element	
	whose subscript exceeds the size of array?	
86)	A. The element will be set to 0.	C
00)	B. The compiler would report an error.	
	C. The program may crash if some important data gets overwritten.	
	D. The array size would appropriately grow.	
	What is the maximum length of a C String.	
	A) 32 characters	D
87)	B) 64 characters	D
	C) 256 characters	
	D) None of the above	
	C programming : Match the following:	
	a. calloc() i. Frees previously allocated space.	
	b. free() ii. Modifiespreviouslyallocated space.	
	c. malloc() iii. Allocates spacefor array.	
88)	d. realloc() iv. Allocates requested size of space.	A
00)		
	A. a-iii, b-i, c –iv, d -ii	
	B. a-iii, b-ii, c –i, d -iv	
	C. a-iii, b-iv, c –i, d -ii	
	D. a-iv, b-ii, c –iii, d -i	
	A pointer pointing to a memory location of the variable even after deletion of	
	the variable is known as	
89)	A. far pointer	В
	B. dangling pointer	
	C. null pointer	
	D. void pointer	
	ש. voia pointei	

	TT - 21 2 - 4	
	How will you print \n on the screen?	
	A)printf("\n");	D
90)	B)echo "\\n";	Ъ
	C)printf('\n');	
	D)printf("\\n");	
	The Default Parameter Passing Mechanism is called as	
	A. Call by Value	
91)	B. Call by Reference	A
	C. Call by Address	
	D. Call by Name	
	Which operator connects the structure name to its member name?	
	a) –	
02)	b) <-	C
92)		
	c).	
	d) Both <- and .	
	Array index always start from (C programming)	
93)	a. 0	A
73)	b. 1	
	c. 2	
	d. 3	
	C programming: Which is not a storage class?	
	a. Auto	В
94)	b. Struct	В
	c. Typedef	
	d. Static	
	What is printed when the sample code is executed?	
	$\inf_{x \to x} y[4] = \{6, 7, 8, 9\};$	
	int *ptr = y + 2;	
	printf("%d\n", ptr[1]);	D
95)		Б
	A) 6	
	B) 7	
	C) 8	
	D) 9	
	Which of the following operator can be used to access value at address stored	
	in a pointer variable?	
96)	A. *	A
	B. #	
	C. &&	
	D. @	
	22. Which one of the following sentences is true?	
	A. The body of a while loop is executed at least once.	
07)		В
9/)	B. The body of a do while loop is executed at least once.	
	C. The body of a do while loop is executed zero or more times.	
	D. A for loop can never be used in place of a while loop.	

98)	perror() function used to? A. Work same as printf() B. prints the error message specified by the compiler C. prints the garbage value assigned by the compiler D. None of the above	В
99)	signed and unsigned representation is available for.? A) short, int, long, char	С
100	C programming: To use the function tolower(), which of the following header file should be used a. string.h b. conio.h c. ctype.h d. None of the mentioned	С
