

# **ENTRANCE EXAM PDF**

## **OF**

# **MASTER OF COMPUTER APPLICATION**



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**YEAR: 2020**

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## ENTRANCE EXAMINATION – 2020 - 21

## SET – D

Roll No. ....

Signature of Invigilator

Time: 1 Hour 30 Minutes

Total Marks: 100

Instructions to Candidates

1. Do not write your name or put any other mark of identification anywhere in the OMR Answer Sheet. IF ANY MARK OF IDENTIFICATIONS IS DISCOVERED ANYWHERE IN OMR RESPONSE SHEET, the OMR sheet will be cancelled, and will not be evaluated.
2. This Question Booklet contains the cover page and a total of 100 Multiple Choice Questions of One mark each.
3. Space for rough work has been provided at the beginning and end. Available space on each page may also be used for rough work.
4. There is negative marking in Multiple Choice Questions. For each wrong answer, 0.25 marks will be deducted.
5. USE/POSSESSION OF ELECTRONIC GADGETS LIKE MOBILE PHONE, iPhone, iPad, pager ETC. is strictly PROHIBITED.
6. Candidate should check the serial order of questions at the beginning of the test. If any question is found missing in the serial order, it should be immediately brought to the notice of the Invigilator. No pages should be torn out from this question booklet.
7. Answers must be marked in the OMR Response sheet which is provided separately. OMR Response sheet must be handed over to the invigilator before you leave the seat.
8. The OMR Response sheet should not be folded or wrinkled. The folded or wrinkled OMR/Response Sheet will not be evaluated.
9. Write your Roll Number in the appropriate space (above) and on the OMR Response Sheet. Any other details, if asked for, should be written only in the space provided.
10. There are four options to each question marked A, B, C and D. Select one of the most appropriate options and fill up the corresponding oval/circle in the OMR Response Sheet provided to you. The correct procedure for filling up the OMR Answer Sheet is mentioned below.

CORRECT METHOD			
<input type="radio"/> A	<input checked="" type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D

WRONG METHODS							
<input checked="" type="checkbox"/> A	<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> D	<input checked="" type="checkbox"/> A	<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> D
<input checked="" type="checkbox"/> A	<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> D	<input checked="" type="checkbox"/> A	<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> D

1. If A stands for ADD, B for SUBTRACT, C for MULTIPLY and D for DIVIDE then which of the following stands for  $2A3B4D2$ ? 2+3-4\div 2  
5-2  
3.

A. 3

B. 2

C. 4

D. 5

(1)

2. Bantu is the brother of Chetna, who has another brother Arun. Deepak is the husband of Chetna, Arun is the son of Rita. Thus Rita is the..... of Deepak? Rita

A. Aunt

B. Mother

C. Sister-in-Law

D. Mother-in-Law

(1)

3. When two coins are tossed simultaneously, what are the chances of getting at least one tail?

A.  $\frac{3}{4}$

B.  $\frac{1}{5}$

C.  $\frac{4}{5}$

D.  $\frac{1}{4}$

(1)

(H,H) (H,T) (T,H) (T,T)

4. Ms. Forest likes to let her students choose who their partners will be; however, no pair of students may work together more than seven class periods in a row. Adam and Baxter have studied together seven class periods in a row. Carter and Dennis have worked together three class periods in a row. Carter does not want to work with Adam. Who should be assigned to work with Baxter?

A. Forest

B. Baxter

C. Carter

D. Adam

(1)

Adam - Baxter - 7  
Carter - Dennis - 3  
A B C D

[3]

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5. Handsome: Beautiful : Husband : ?

- A. Women  
C. Girl

- B. Wife  
D. She

(1)

6. Decode the functional arithmetic operators hidden between digits, given that

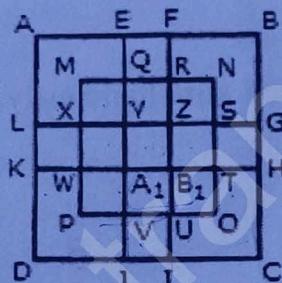
$5611 = 9$ ,  $3713 = 6$  and  $4212 = 3$ . Evaluate, what will be the value of  $8777$ ?  
 $11-2 \quad 10-4 \quad 6-3 \quad 15-14 = 1$

- A. 1  
C. 4

(1)

- B. 3  
D. 5

7. What is the total number of squares in the given figure below?



$$\begin{array}{rcl} 5 \times 5 & = & 25 \\ 4 \times 4 & = & 16 \\ 3 \times 3 & = & 9 \\ 2 \times 2 & = & 4 \\ 1 \times 1 & = & 1 \\ \hline & & 55 \\ & - & 12 \\ \hline & & 43 \end{array}$$

14

- A. 18  
C. 25

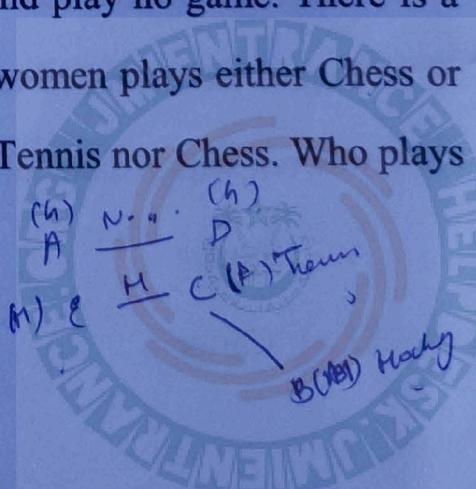
- B. 19  
D. 27

8. In a group of five person A, B, C, D and E one plays Tennis, one plays Chess and one Hockey. A and D are unmarried women and play no game. There is a couple among them where E is husband of C. No women plays either Chess or Hockey. B is the brother of C and he neither plays Tennis nor Chess. Who plays Hockey here?

- A. A  
C. C

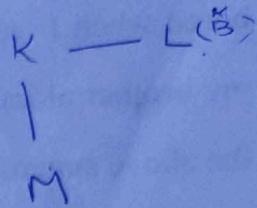
(2)

- B. B  
D. E



[4]

9. If L is the brother of K and K is the friend of M then the inference 'L is the friend of M' is ... .



- A. true       B. false  
 C. probably false or true      D. not possible

10. If education is given by the government free of charge then

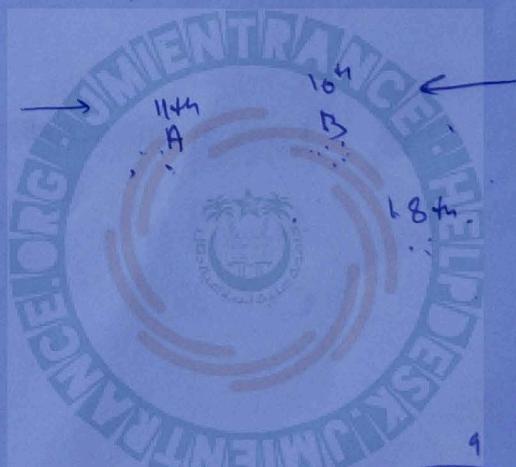
- (i) it will help in universalization of education in the country, and  
(ii) there will be budgetary deficit creating some new problems.

- A. Argument (i) is strong  
B. only argument (ii) is strong  
C. both the arguments are strong  
D. neither (i) nor (ii) is strong



11. In a row A is in the 11<sup>th</sup> position from the left and B is in the 10<sup>th</sup> position from the right. If A and B interchange, then A becomes 18<sup>th</sup> from the left. How many persons are there in the row other than A and B?

- A. 27       B. 26  
 C. 25      D. 24



12. Examine the following statements: {I watch TV only if I am bored. I am never bored when I have my brother's company. Whenever I go to the theatre, I take my brother along.} Which of the following conclusion is valid in the context of the above statements?

- A. If I am bored, I watch TV.
- B. If I am bored, I Seek my brother's company .
- C. If I am not with my brother, then I watch TV.
- D. If I am not bored, I do not watch TV.

13. The total of the ages of Amar , Akbar and Anthony is 80 years. What was the total of their ages three years ago ?

- A. 71 years
- B. 72 years
- C. 74 years
- D. 77 years

14. In a family, each daughter has the same number of brothers as she has sisters and each son has twice as many sisters as he has brothers. How many sons are there in the family?

- A. 2
- B. 3
- C. 4
- D. 5

15. Look at this series: 8, 22, 8, 28, 8, ... What number should come next?

- A. 9
- B. 29
- C. 32
- D. 34

[6]

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16.

17.

18.

19.

M54 SE

16. Which word does NOT belong with the others?

- |               |          |
|---------------|----------|
| A. inch       | B. ounce |
| C. centimeter | D. yard  |

17. If in a code language COME is coded as XLN V, then the code for CAT will be... A. P B. Q C. R D. S

- A. XZG      B. CMW  
C. YMN      D. XWG

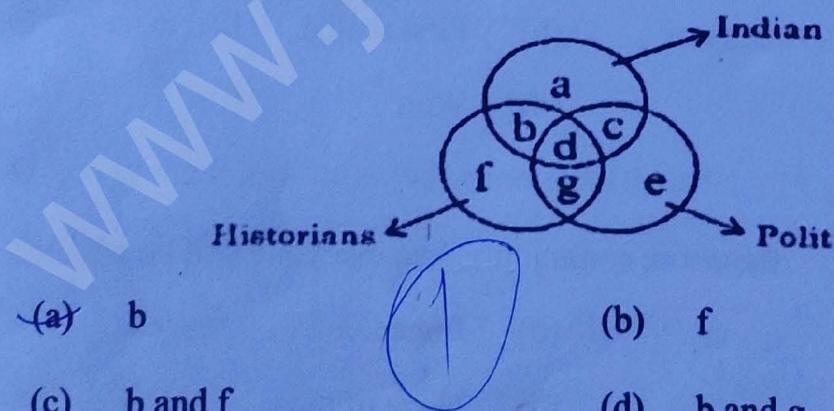


18. If + means  $\div$ ,  $\times$  means  $-$ ,  $-$  means  $\times$  &  $\div$  means  $+$ , then  $38 + 19 - 16 \times 17 \div 3 = ?$

- A. 16      B. 19  
C. 18      D. 12

$$38 \div 19 \times 16 - 17 \div 3 \\ 2 \times 16 - 5 \cdot 6 \\ 32 -$$

19. Which of the following represents 'Indians and historians but not politicians' based on the Venn diagram here?



[7]

20. Which of the following is a correct expression by English grammar?
- A. He is sleeping for two hours.
  - B. We had gone to the movies last night.
  - C. I have seen him yesterday.
  - D. Neither of the boys has returned.
21. The musicians delivered a rousing performance ... they had rehearsed often.
- A. Though
  - B. As
  - C. Once
  - D. Lest
22. Grain is malted by first soaking it in water, then allowing it to sprout, and finally drying it .... stop the sprouting.
- (a) in order to
  - (b) to order to
  - (c) into order to
  - (d) with order to
23. Mount Everest, the highest elevation in the world, ..... in 1953 by members of an expedition including Sir Edmund Hillary and Tenzing Norgay.
- (a) Scaled
  - (b) First scaled
  - (c) Climbed
  - (d) Won
24. The new law will ..... the entire community, and everyone will be affected.
- (a) Impact
  - (b) Impede
  - (c) Impress
  - (d) None of these

[8]



30. Which of the following is the antonym of ANONYMOUS?

  - (a) Desperate
  - (b) Expert
  - (c) Known
  - (d) Written

31. Which one of the following statements is false?

  - A.  $\emptyset$  is a relation.
  - B. The cardinality of  $\{\emptyset, \{\emptyset\}\}$  is 2
  - C. The set of Natural numbers and Integers are equinumerous.
  - D. An irreflexive relation is neither symmetric nor transitive relation.

32. In how many ways can the letters of the word 'LOADING' be arranged in such a way that the vowels always come together?

  - A. 360
  - B. 480
  - C. 720
  - D. 524

$$\begin{matrix} 3 & 1 & 3 & 1 & 3 & 1 & 3 \\ \underline{Y} & \underline{Z} & \underline{X} & \underline{Z} & \underline{X} & \underline{Z} & \underline{1} \end{matrix}$$

33. What will the value of  $f(x) = (\sin 3x + \sin x) \sin x + (\cos 3x - \cos x) \cos x$ ?

  - A. 0
  - B. 1
  - C. -1
  - D. 2

$$\begin{matrix} (\sin 90^\circ + \sin 30^\circ) \sin 30^\circ + (\cos 90^\circ - \cos 30^\circ) \cos 30^\circ \\ (1 + \frac{1}{2}) \frac{1}{2} + (0 - \frac{\sqrt{3}}{2}) \frac{\sqrt{3}}{2} \\ \frac{3}{2} \times \frac{1}{2} + -\frac{3}{4} \\ \frac{3}{4} - \frac{3}{4} = 0 \end{matrix}$$

34. The relation represented by  $R = \{(1, 1), (2, 2), (3, 3), (1, 3), (3, 2), (1, 2)\}$  on the set  $A = \{1, 2, 3\}$  is ..... relation.

  - A. A reflexive and symmetric but not transitive
  - B. A reflexive and transitive but not symmetric
  - C. A symmetric and transitive but not reflexive
  - D. An equivalence

[10]

35. Which of the following indicates the first step of mathematical induction for the mathematical statement  $n + 1 > n$ ?

- A.  $2 > 1$       B.  $2 > 0$   
C.  $1 < 2$       D.  $0 < 2$

36. What will be the next permutation in lexicographic order after 362541?

- A. 364125      B. 41 2563  
C. 361425      D. 361420

37. Which of the following expresses the given complex number  $(1 - i)^4$  in the form  $(a + bi)$ ?

- A.  $1 - 4i$       B.  $-4i$   
C.  $-4$       D.  $1$

38. In how many ways can the letters of the word 'LEADER' be arranged?

- A. 72      B. 144  
~~C.~~ 360      D. 720

$$\frac{6!}{2!} \times 5 \times 4 \times 3 \times 2$$

39. Objective of linear programming for an objective function is to.....

- A. maximize or minimize      B. subset or proper set modelling  
C. row or column modeling      D. adjacent modeling

[11]

40. The differential equation  $2 \frac{dy}{dx} + x^2y = 2x+3$ ,  $y(0)=5$  will be.....

- A. linear
- B. nonlinear
- C. linear with fixed constants
- D. undeterminable to be linear or nonlinear

45.

2/3pt

41. The order of the differential equation corresponding to the family of curves

$y = c(x - c)^2$ ,  $c$  is constant is.....

- A. 1
- B. 2
- C. 3
- D. 4

46.

42. Area bounded by the curve  $y = \sin x$  and the x-axis between  $x = 0$  and  $x = 2\pi$  is ..... sq units.

- A. 2
- B. 0
- C. 3
- D. 4

47.

43. The area of the region bounded by the curve  $y = 1/x$ , the x-axis and between  $x = 1$  to  $x = 6$  is ..... sq units.

- A.  $\log_e 5$
- B. 0
- C.  $\log_e 6$
- D.  $\log_e 7$

48.

44.  $\int \frac{\sin x + \cos x}{\sqrt{1+\sin 2x}} dx$ ,  $\frac{3\pi}{4} < x < \frac{7\pi}{4}$  is equal to

- A.  $\log |\sin x + \cos x|$
- B.  $x$
- C.  $\log |x|$
- D.  $-x$

49.



[12]

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M54 S

45. The equation of the normal to the curve  $y = \sin x$  at  $(0, 0)$  is.....

- A.  $x = 0$       B.  $y = 0$   
C.  $x + y = 0$       D.  $x - y = 0$

46. The curves  $y = ae^{-x}$  and  $y = be^x$  are orthogonal if.....

- A.  $a = b$       B.  $a = -b$   
C.  $ab = -1$       D.  $ab = 1$

47. If  $|a^\rightarrow| = 4$  and  $-3 \leq \lambda \leq 2$  then the range of  $|\lambda a^\rightarrow|$  is ...

- A.  $[0, 8]$       B.  $[-12, 8]$   
C.  $[0, 12]$       D.  $[8, 12]$

48. The distance of point  $(2, 5, 7)$  from the x-axis is ...

- A. 2      B.  $\sqrt{74}$   
C.  $\sqrt{29}$       D.  $\sqrt{53}$

$$\begin{aligned} & (\sqrt{(2)^2 + (5)^2 + (7)^2}) \\ & \sqrt{4 + 25 + 49} \\ & \sqrt{78} \end{aligned}$$

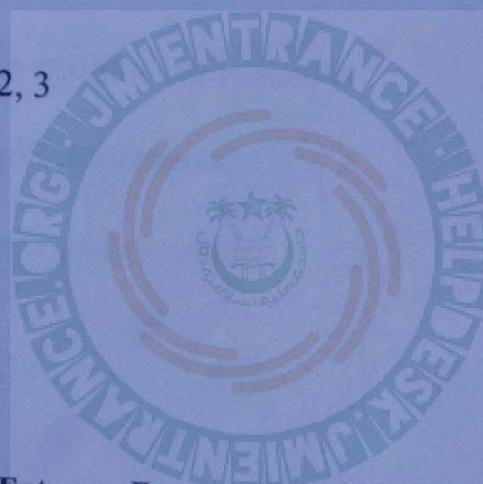
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49. Three balls are drawn from a bag containing 2 red and 5 black balls, if the random variable  $X$  represents the number of red balls drawn, then  $X$  can take values ...

- A.  $0, 1, 2$   
C. 0



- B.  $0, 1, 2, 3$   
D. 1, 2



[13]

M54 SET – D

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50. A black and a red die are rolled together. What is the conditional probability of obtaining the sum 8, given that the red die resulted in a number less than 4?

A.  $\frac{1}{3}$

C.  $\frac{1}{9}$

B.	$\frac{1}{4}$
D.	$\frac{1}{2}$

51. What will be the mean and variance for the first  $n$  natural numbers?

A.  $(n+1)/2$  and  $(n^2-1)/12$

C.  $(n+1)/2$  and  $(n^2-1)/12$

B.  $n(n+1)/2$  and  $(n^2+1)/12$

D.  $n(n+1)/2$  and  $(n^2-1)/12$

52. The mean and standard deviation of marks obtained by 50 students of a class in three subjects physics, mathematics and chemistry are as follows:

Subject	Mathematics	Physics	Chemistry
Mean	42	32	40.9
Standard Deviation	12	15	20

Which of the subjects show the highest and lowest variabilities respectively?

A. Mathematics, Physics

B. Chemistry, Mathematics

C. Mathematics, Chemistry

D. Chemistry, Physics

ity of

53. What will the following evaluate to?

$$\lim_{x \rightarrow 4} \left( \frac{4x+3}{x-2} \right) \quad \frac{4x+3}{x-2} \rightarrow \frac{19}{2}$$

- A. 19/2      B. 13/2  
C. 11/3      D. 7/5

(1)

54. What will be the limiting value of the  $f(x) = |x| - 5$  when  $x \rightarrow 5$ ?

- A. 0      B. 1  
C. -1      D. -2



55. The distance between  $P(x_1, y_1)$  and  $Q(x_2, y_2)$  is given by  $|x_2 - x_1|$  when  $PQ$  is ...

- A. parallel to the y-axis      B. parallel to the x-axis  
C. perpendicular to x-axis      D. perpendicular to y-axis

.....

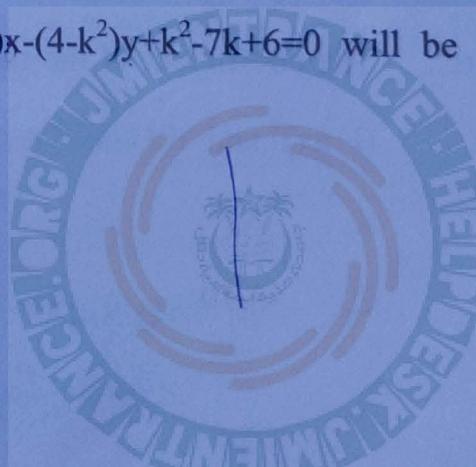
56. What is the value of  $x$  for which the points  $(x, -1)$ ,  $(2, 1)$  and  $(4, 5)$  are collinear?

- A. 1      B. 2  
C. -1      D. 0

$$\begin{aligned} & A \quad B \quad C \\ & \sqrt{(2-x)^2 + (1+1)^2} = \sqrt{(4-x)^2 + (5-1)^2} \\ & \sqrt{(2-x)^2 + 4} = \sqrt{(4-x)^2 + 16} \\ & 4 - 4x + x^2 + 4 = 16 - 8x + x^2 \\ & 8 = 4x \quad \text{or} \quad x = 2 \end{aligned}$$

57. For which value of  $k$ , the line given by  $(k-3)x - (4-k^2)y + k^2 - 7k + 6 = 0$  will be parallel to the x-axis?

- A. 2      B. 3  
C. -3      D. 0



[15]

$(100)(2)^5$  ~~2x1x2x2x2x2~~

$\frac{102}{102}$   
 $\frac{1}{4}$

58. What will the value of  $(102)^5$ ?
- A. 11040808032      B. 11040806032  
C. 11040606032      D. 11040606034
59. What will be an approximation of  $(0.99)^5$  using the first three terms of its expansion?
- A. 0.954      B. 0.952  
C. 0.951      D. 0.953
60. What is the number of non-zero integral solutions of the equation  $f \mid 1-i \mid^x = 2^x$ ?
- A. 1      B. -1  
C. 0      D. 2
61. If six out ten points in a plane are collinear, then the number of triangles formed by joining these points will be...100.
- A.  $<$       B.  $\geq$   
C.  $\leq$       D.  $=$
62. The coefficient of the middle term in the binomial expansion in powers of x of  $(1+ax)^4$  and of  $(1-ax)^6$  is the same, if a is equal to...
- A.  $-5/3$       B.  $3/5$   
C.  $-3/10$       D.  $1/4$

63. Three houses are available in a locality. Three persons apply for the houses. Each applies for one house without consulting others. The probability that all the three apply for the same house is . . .

A.  $\frac{5}{9}$

B.  $\frac{1}{9}$

$\frac{1}{9}$

C.  $\frac{8}{9}$

D.  $\frac{2}{9}$

64. The statement  $p \rightarrow (q \rightarrow p)$  is equivalent to...

A.  $p \rightarrow (p \rightarrow q)$

B.  $p \rightarrow (\sim p \vee q)$

C. F

D. T

65. For  $y = \sin x + \cos x - 5a$ , what is the value of  $\frac{dy}{dx}$  ?

A.  $\cos x - \sin x$

B.  $\cos x + \sin x - 5$

C.  $\sin x - \sec x$

D.  $\sin x + \cos x + 5$

66. Which of the following functions show that the statement, 'if a function is continuous at  $x=0$  then it is differentiable at  $x=0$ ' is false?

A.  $f(x) = x^{4/3}$

B.  $f(x) = x^{1/3}$

C.  $f(x) = x^{-1/3}$

D.  $f(x) = x^3$

67. The equation of the circle with centre  $(0, 2)$  and radius 2 is ...

A.  $x^2 + y^2 - 2y = 0$

B.  $x^2 + y^2 + 4y = 0$

C.  $x^2 + y^2 - 3y = 0$

D.  $x^2 + y^2 - 4y = 0$

$0 + 4 - 6$

[17]

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68. For  $a, b \in R$  define  $a = b$  to mean that  $|x| = |Y|$ . If  $[x]$  is an equivalence relation in  $R$  then the equivalence relation for [17] is.....
- A.  $\{..., -11, -7, 0, 7, 11, ...\}$       B.  $\{2, 4, 9, 11, 15, ...\}$   
 C.  $\{-17, 17\}$       D.  $\{5, 25, 125, ...\}$
69. The sets A and B have same cardinality if and only if there is ..... correspondence from A to B.
- A. One-to-one      B. One-to-many  
 C. Many-to-many      D. Many-to-one
70. Let the sequence be  $1 \times 2, 3 \times 2^2, 5 \times 2^3, 7 \times 2^4, 9 \times 2^5, \dots$  then this sequence is ...
- A. An arithmetic sequence      B. A geometric progression  
 C. Airthmetico-geometric progression      D. Harmonic progression
71. How many ways can 8 prizes be given away to 7 students, if each student is eligible for all the prizes?
- A. 40325      B. 40320  
 C. 40520      D. 40720
72. Which amount of postage can be formed using just 4-cent and 11-cent stamps?
- A. 2      B. 5  
 C. 30      D. 10

73. How many bytes are required to encode 2000 bits of data?

A. 1

B. 2

C. 3

D. 8

74. The value of  $[1/2] [5/2]$  is .....

A. 1

B. 2

C. 3

D. 0.5

75. How many five-digit numbers can be made from the digits 1 to 7 if repetition is allowed?

A. 16807

B. 54629

C. 23467

D. 32354

76. What is the base case for the inequality  $7^n > n^3$ , where  $n = 3$ ?

A.  $652 > 189$

B.  $42 < 132$

C. 343 > 27

D.  $42 \geq 431$

77. The product of complex numbers (4,3) and (5,-6) is ?

A. (18,3)

B. (18,-3)

C. (38.9)

D (38-9)

78. An object moved in a circular path of radius 21 metre such that it made an angle of  $30^\circ$ . What is the distance covered by the object?
- A. 11      B. 21  
C. 31      D. 41
79. If A and B are matrices, then which from the following is true?
- A.  $A + B \neq B + A$       B.  $(A')' \neq A$   
C.  $AB \neq BA$       D.  $A - B = B - A$
80. Under what conditions can an attribute of a binary relationship type be migrated to become an attribute of one of the participating entity types?
- A. When the relationship type is 1:1 or 1:N  
B. When the relationship type is N:1 or 1:N  
C. When the relationship type is 1:1 or N:1  
D. When the relationship type is N:1 or N:N
81. Which primitive operations are directly performed by computer hardware?
- A. Testing & Zeroing      B. Testing & Flipping  
C. Testing, Flipping & Zeroing      D. Arithmetic Operations
82. Which of the following is not a computer brand?
- A. IBM      B. COMPAQ  
C. HP      D. BSNL

[20]

M54 SET - D

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83. Typical speed of current fastest super computers is measured in . . . .

- A. Petaflops
- B. GigaHertz
- C. M I P S
- D. Megahertz

84. Which of the following is not an operating system?

- A. UNIX
- B. DOS
- C. LINUX
- D. H P

85. Which of the following refers to the foremost operation, initiated while starting a computer system ?

- A. Booting
- B. POST
- C. Padding
- D. BIOS

86. The pair byte and nibble comprise of ..... bit(s) respectively.

- A. 8 and 4
- B. 4 and 6
- C. 8 and 6
- D. 4 and 8

87. In which number system, can the binary number 1011011111000101 be the most easily converted to?

- A. Decimal
- B. Hexadecimal
- C. Octal
- D. Roman

88. Which of the following is true for  $(p \wedge q) \rightarrow (p \vee q)$ ?
- A. Tautology
  - B. Contingency
  - C. Contradiction
  - D. Negation

89. One of the most distinguishing features of computer systems is ... .....
- A. Speed
  - B. Virtual Expandability
  - C. Storage
  - D. Precision

90. What is the name of the data metric used to refer to the size  $10^{24}$ ?
- A.  Yotta
  - B. Zetta
  - C. Exa
  - D. Giga
- $\frac{24}{3} = 8$   
 $10^3 \times 10^3 \times 10^3 \times 10^3 \times 10^3$   
 $10^3 \times 10^3 \times 10^3 \times 10^3 \times 10^3$   
B K M G T P E ② Y

91. Which of the following is not a phase during the communication via circuit switching?

- A. Data Transfer
- B. Circuit Disconnect
- C. Tunneling
- D. Booting

92. Suppose you find some technical problems with the mail account user@example.com. Who should you try to contact in order to solve them?

- A. postmaster@example.com
- B. Rfc822@example.com
- C. Dns822@example.com
- D. Cybercrime Cell

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93. Parallel Virtual Machine (PYM) refers to a .....
- A. Software tool
  - B. Workstation
  - C. Super Computer
  - D. Loader

94. Which type of the following languages, is directly understood by the computer without translation program ?

- A. Middle Level Language
- B. High Level Language
- C. Assembly Language
- D. Machine Language

(D)

95. Which of the following is not related to internet?

- A. Bridge
- B. Router
- C. DNS
- D. Printer

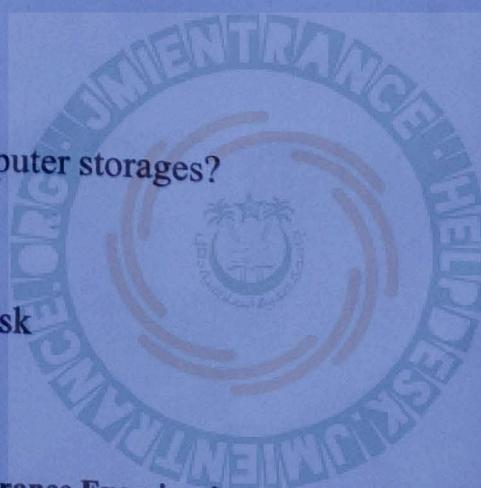
(D)

96. Which of the following is true about operating systems?

- A. An operating system is not an algorithm.
- B. An operating system is an application software.
- C. An operating system is hardware component.
- D. An operating system is a typical firmware.

97. Which, of the following is the fastest among the computer storages?

- A. Registers
- B. RAM
- C. CD
- D. Flash Disk



[23]

M54 SET - D

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98. Ctrl, Shift and Alt keyboard keys are called \_\_\_\_\_ keys.

- A. Modifier
- B. Adjustment
- C. Function
- D. compiler

99. Which of the following terms is used to describe a hardware- or software-based device that protects networks from outside threats?

- A. NIC
- B. ~~Gateway~~
- C. Firewall
- D. VDU

100. Which is not among the frontier technologies of computer system?

- A. IOT
- B. Data Mining
- C. Cloud Computing
- D. COBOL

