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DIPLOMA - COMMON ENTRANCE TEST-2017

CC	COURSE	DAY: SUNDAY DATE: 02-07-2017	
CD	COMPUTER SCIENCE	TIME: 10.00 a.m. to 1.00 p.m.	

i	MAXIMUM MARKS	TOTAL DURATION	MAXIMUM TIME FOR ANSWERING
	180	200 MINUTES	180 MINUTES

MENTION YOUR	QUESTION BOOKLET DETAILS				
DIPLOMA CET NUMBER	VERSION CODE	SERIAL NUMBER			
	B - 1	208938			

DOs:

- Check whether the Diploma CET No. has been entered and shaded in the respective circles on the OMR answer sheet
- 2. This Question Booklet is issued to you by the invigilator after the 2nd Bell i.e., after 09.50 a.m.
- 3. The Serial Number of this question booklet should be entered on the OMR answer sheet and the respective circles should also be shaded completely.
- 4. The Version Code of this question booklet should be entered on the OMR answer sheet and the respective circles should also be shaded completely.
- 5. Compulsorily sign at the bottom portion of the OMR answer sheet in the space provided.

DON'Ts:

- 1. THE TIMING AND MARKS PRINTED ON THE OMR ANSWER SHEET SHOULD NOT BE DAMAGED/MUTHATED/SPOILED.
- 2. The 3rd Bell rings at 10.00 a.m., till then;
 - Do not remove the paper seal / polythene bag of this question booklet.
 - Do not look inside this question booklet.
 - Do not start answering on the OMR answer sheet.

IMPORTANT INSTRUCTIONS TO CANDIDATES

- 1. This question booklet contains 180 (items) questions and each question will have one statement and four answers. (Four different options / responses.)
- 2. After the 3rd Bell is rung at 10.00 a.m., remove the paper seal / polythene bag of this question booklet and check that this booklet does not have any unprinted or torn or missing pages or items etc., if so, get it replaced by a complete test booklet. Read each item and start answering on the OMR answer sheet.
- 3. During the subsequent 180 minutes:
 - · Read each question (item) carefully.
 - Choose one correct answer from out of the four available responses (options / choices) given under each question / item. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **only one response** for each item.
 - Completely darken / shade the relevant circle with a BLUE OR BLACK INK BALL POINT PEN
 against the question number on the OMR answer sheet.

Correct	Method	of	shading	the	circle	on	the	OMR	answer	sheet	is- as	shown	below:
	,				A		D(1	<u>) </u>					

- 4. Use the space provided on each page of the question booklet for Rough Work. Do not use the OMR answer sheet for the same.
- 5. After the last Bell is rung at 1.00 p.m., stop marking on the OMR answer sheet and affix your left hand thumb impression on the OMR answer sheet as per the instructions.
- 6. Handover the OMR ANSWER SHEET to the room invigilator as it is.
- 7. After separating the top sheet (KEA copy), the invigilator will return the bottom sheet replica (Candidate's copy) to you to carry home for self-evaluation.
- 8. Preserve the replica of the OMR answer sheet for a minimum period of **ONE year**.



APPLIED SCIENCE

- 1. The equation of motion of a body for distance travelled ' S_n ' in the 'nth' second is given by
 - (A) $S_n = u + \frac{a}{2}(2n-1)$
- (B) $S_n = u \frac{a}{2}(2n-1)$
- (C) $S_n = u + \frac{a}{2}(2n+1)$
- (D) $S_n = u \frac{a}{2}(2n+1)$
- 2. A bullet of mass 0.01 kg is fired with a velocity of 960 ms⁻¹ from a rifle of mass 3 kg, the velocity of recoil of rifle is
 - (A) -320 ms^{-1}

(B) $-0.32 \,\mathrm{ms}^{-1}$

(C) $-3.2 \,\mathrm{ms}^{-1}$

- (D) -32 ms^{-1}
- 3. One of the following is not a scalar quantity:
 - (A) Mass

(B) Density

(C) Force

- (D) Speed
- 4. If a body fixed about a point rotates in clockwise direction, the moment of force is measured as
 - (A) Positive

(B) Negative

(C) Zero

- (D) Equal
- 5. The resultant magnitude of two forces P and Q acting in same line and in same direction is
 - (A) P Q

(B) P + Q

(C) Q - P

(D) $\frac{P}{Q}$

6.	The	resultant magnitude of two for	ces 6 N and	18 N acting at right angles to each other is
	(A)	100 N	(B)	10 N
	(C)	48 N	(D)	14 N
7.		value of resultant magnitude e between the two forces is	of two for	rees acting at a point is maximum, when the
	(A)	0°	(B)	90°
	(C)	180°	(D)	45°
8.	Rise	of liquid in a capillary tube is	due to	
	(A)	Energy	(B)	Viscosity
	(C)	Surface tension	(D)	Pressure
9.	The	ratio of volume stress to volun	ne strain is	ealled
	(A)	Bulk modulus	(B)	Young's modulus
	(C)	Rigidity modulus	(D)	Poisson's ratio
10.	The	reciprocal of bulk modulus of	elasticity is	scalled
	(A)	Compressibility	(B)	Rigidity
	(C)	Plasticity	(D)	Modulus of elasticity
11.	The	force of cohesion is maximum	in	
	(A)	Solids	(B)	Gases
	(C)	Liquids	(D)	Plasma
		Spa	ice For Roi	igh Work

12.	The	value of surface tension is 80 dyna	e/em. W	/hat will be its value in Nm ⁻¹ ?
	(A)	$8 \times 10^2 \text{ Nm}^{-1}$	(B)	80 Nm ⁻¹
	(C)	$8 \times 10^{-2} \text{ Nm}^{-1}$	(D)	$8 \times 10^3 \text{ Nm}^{-1}$
13.		sure at the bottom of a container h) m is	aving b	pase area of 10 m ² filled with water to a height
	(A)	$9.8 \times 10^4 \mathrm{Pa}$	(B)	$980 \times 10^4 \mathrm{Pa}$
	(C)	$9.8 \times 10^{-4} \text{ Pa}$	(D)	$980 \times 10^{-4} \text{Pa}$
14.	100	$^{\circ}C$ when expressed in absolute sea	ıle is	
	(A)	100 K	(B)	0 K
	(C)	273 K	(D)	373 K
15.	Gas	law which gives the relation between	een pre:	ssure and volume changes is
	(A)	Boyle's law	(B)	Charles' law
	(C)	Gay-Lussac's law	(D)	Hooke's law
16.	Amo	ount of heat required to raise the te	mperat	ure of one gram of water through 1 °C is
	(A)	Heat capacity	(B)	Conductivity
	(C)	Calorie	(D)	Joule
17.	An e	example of longitudinal wave is		

(B) Waves on the surface of water

(D) Electromagnetic waves

(A). Sound waves

(C) Light waves

18. The relation between velocity of sound v, and absolute temperature T is

(A) $v \propto T$

(B) $v \propto \frac{1}{T}$

(C) $v \propto \sqrt{T}$

(D) $v \propto T^2$

19. The distance between a node and the next antinode in a stationary wave is equal to

(A) one wavelength

(B) half wavelength

(C) twice wavelength

(D) one fourth wavelength

20. Damage caused by marching military columns to the suspension bridge is due to

(A) Echo

(B) Resonance

(C) Beats

(D) Interference

21. During forced vibrations, if the forced frequency is F_1 and natural frequency is F_2 , the body resonates if

 $(A) \quad F_1 > F_2$

(B) $F_2 > F_1$

(C) $F_1 = 2.5 F_2$

(D) $F_1 = F_2$

22. The fundamental frequency of transverse vibrations of the stretched string is inversely proportional to

(A) tension

(B) length of string

(C) square root of tension

(D) square root of length of string

23. Minimum length of a hall to produce an echo is

(A) 50 m

(B) 34 m

(C) 25 m

(D) 17 m

24. The property of light that Huygen's wave theory could explain is

(A) Polarisation

(B) Photoelectric effect

(C) Interference

(D) Compton effect

25. The spectrum of black body radiation is successfully explained by

- (A) Newton's corpuscular theory of light
- (B) Huygen's wave theory of light
- (C) Maxwell's electromagnetic theory of light
- (D) Planck's quantum theory of light

26. For constructive interference of light, the path difference should be

(A) $\frac{2n\lambda}{2}$

(B) $(2n+1)\frac{\lambda}{2}$

(C) $(2n+1)\frac{\lambda}{3}$

(D) $(2n+1)\frac{\lambda}{4}$

27. Two very close objects are just resolved if the central maximum of one object is on

- (A) central maximum of another
- (B) first minimum of another
- (C) beyond second minimum of another
- (D) between central maximum and first minimum of another

28. The light is incident at polarising angle θ_p and the angle of refraction is r, then

(A) $\theta_p + r = 0^\circ$

(B) $\theta_p + r = 90^\circ$

(C) $\theta_p + r = 180^\circ$

(D) $\theta_{p} + r = 360^{\circ}$

29.	Mini	imum energy required to remove	an electi	on from the metal surface is called					
	(A)	Kinetic energy	(B)	Potential energy					
	(C)	Work function	(D)	Energy function					
30.		When the size of the scattering particle is small, the intensity of scattered light is inversely proportional to							
	(A)	fourth power of wavelength	(B)	square of wavelength					
	(C)	square root of wavelength	(D)	cube of wavelength					
31.	Tim	Time for which an atom stays in metastable state is of the order of							
	(A)	Seconds	(B)	Milli-seconds					
	(C)	Micro-seconds	(D)	Nano-seconds					
32.	If an	f an element emits β -ray then its atomic number							
	(A)	increases by one	(B)	decreases by one					
	(C)	remains same	(D)	decreases by two					
33.	lf th	If the concentration of H^+ ions is more than 10^{-7} gm ion per litre, the solution is							
	(A)	Base	(B)	Acid					
	(C)	Neutral	(D)	Both Acid and Base					
34.	A ga	nlvanic cell is one in which							
	(A)	chemical energy produce electr	ie energy	y					
	(B)	electric energy produce chemical energy							
	(C)) chemical energy will not produce electric energy							
	(D)	(D) electric energy will not produce chemical energy							
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35.	The	S.I. unit of Coefficient of Viscosity	IS	
	(A)	Poise	(B)	NSm ⁻²
	(C)	$NS^{-1}m^2$	(D)	NS ⁻¹ m ⁻²
36.	The	prefix used for 10^{+9} is		
	(A)	Mega	(B)	Tera
	(C)	Giga	(D)	Hecta
37.	The	physical quantity which has the din	rensio	nal formula [ML ⁰ T ⁻²] is
	(A)	Force	(B)	Surface tension
	(C)	Viscosity	(D)	Work
38.	The	least count of slide callipers is give	n hv	
704	(A)	1 MSD + 1 VSD	(B)	I MSD×1 VSD
	(C)	I MSD – I VSD	(D)	IMSD IVSD
		•		
39.	The	product of force and time is		
	(A)	Momentum	(B)	Moment
	(C)	Impulse	(D)	Acceleration
40.	The	change in position of a particle in a	partic	
	(A)	Speed	(B)	Displacement
	(C)	Velocity	(D)	Acceleration

PART - B

APPLIED MATHEMATICS

- 41. The sine of the angle between the vectors (2i 2j + k) and 2i + j + 2k is
 - $(A) \quad \frac{\sqrt{65}}{3}$

(B) $\frac{\sqrt{65}}{\sqrt{3}}$

(C) $\frac{\sqrt{65}}{9}$

- (D) $\sqrt{65}$
- 42. If $x \sin^2 45 = \frac{\tan^2 45 + \cot^2 30}{\sin^2 45 + \cos^2 45}$ then the value of x is
 - $(A) \quad 4$

(B) 2

(C) 6

- (D) 8
- 43. The value of $\frac{4}{3}\sec^2\frac{\pi}{3} \csc^2\frac{\pi}{6} + \frac{3}{4}\tan^2\frac{\pi}{4} 2\sin^2\frac{\pi}{3}$ is
 - (A) $-\frac{11}{12}$

(B) $\frac{53}{12}$

(C) $\frac{7}{12}$

(D) $-\frac{7}{12}$

44. The value of

$$\frac{\sin(90-0)}{\cos(360-\theta)} + \frac{\sec\left(\frac{3\pi}{2} + \theta\right)}{\csc(\pi + \theta)} + \frac{\tan(180-\theta)}{\tan(-\theta)}$$
 is

(A) 1

(B) -1

(C) 3

- (D) 2
- **45.** The value of cosec 43 cot 43 cot 47 cos 47
 - (A) 1

 $(B) \quad 0$

(C) -1

(D) 2

46. The value of $\frac{\tan 69^{\circ} + \tan 66^{\circ}}{1 - \tan 69^{\circ} \tan 66^{\circ}}$

(A) 1

(B) -1

(C) = 0

(D) ∞

47. If $\tan \frac{A}{2} = x$ then $\sin A + \tan A$ is

 $(A) \quad \frac{4x}{1-x^2}$

(B) $\frac{4x}{1+x^2}$

 $(C) \quad \frac{4x}{1+x^4}$

(D) $\frac{4x}{1-x^4}$

48. The value of $\sin 70^{\circ} - \sin 50^{\circ} - \sin 10^{\circ}$ is

(A) 1

(B) (

 $(C)^{\perp} -1$

(D) $\frac{1}{2}$

49. $\sin^{-1} x$ is also equal to

(A) $\csc^{-1}\left(\frac{1}{x}\right)$

(B) cosec x

(C) $cosec^{-1} x$

(D) $\frac{1}{\sin x}$

50. Centroid divides the median in the ratio

(A) 2:1

(B) 1:2

(C) = 1:1

(D) 1:4

51. The co-ordinates of a point which divides the line join of the points (a + b, a - b) and (a - b, a + b) in the ratio 2:3 is

(A) $\frac{5a+5b}{5}, \frac{5a-5b}{5}$

(B) $\frac{a+b}{5}, \frac{a-b}{5}$

(C) $\frac{5a+b}{5}, \frac{5a-b}{5}$

(D) $\frac{5a-b}{5}, \frac{a+5b}{5}$

52. The equation of straight line whose intercepts are 3 and 5 on the axes is

(A)
$$5x - 3y = 15$$

(B)
$$5x + 3y = 15$$

(C)
$$5x + 3y = 1$$

(D)
$$15x + 15y = 1$$

53. The angle between the lines whose slopes are $\sqrt{3}$ and $\frac{1}{\sqrt{3}}$ respectively is

(A)
$$\frac{\pi}{6}$$

(B)
$$\frac{\pi}{3}$$

$$(C) \frac{\pi}{4}$$

(D)
$$\frac{\pi}{2}$$

54. The equation of the straight line passing through (2, 3) and x intercept is twice its y intercept is

(A)
$$x + 2y = 8$$

(B)
$$x - 2y = 8$$

(C)
$$x + y = 4$$

(D)
$$2x + 2y = 8$$

55. The equation to the line passing through the point (-6, 7) and parallel to the line joining (3, 4) and (6, -8) is

(A)
$$4x + y + 31 = 0$$

(B)
$$x + 4y - 1 = 0$$

(C)
$$y - 4y + 1 = 0$$

(D)
$$4x + y + 17 = 0$$

56. $\lim_{\theta \to \pi/2} (\sec \theta - \tan \theta)$ is equal to

$$(A) \quad 0$$

$$(B) \quad 1$$

(C)
$$\frac{\pi}{2}$$

57. $\lim_{x \to 4} \frac{x-4}{3-\sqrt{13-x}}$ is equal to

 $(A) \quad 3$

(B) 9

(C) 6

(D) = 0

58. If $y = (1 + \log x)^s$, then $\frac{dy}{dx}$ is

 $(A) = 5(\log x)^4$

(B) $\frac{5}{x}(1+\log x)^4$

(C) $5(1 + \log x)^4$

(D) $5x^4 \log x$

59. If $y = \cos^{-1} t$ and $y = \sin^{-1} t$, then $\frac{dy}{dx}$ is

(A) -1

(B)

(C) $\frac{1}{2\sqrt{1-t^2}}$

(D) $\frac{2}{\sqrt{1-t^2}}$

60. If $y = x \log y$, then $\frac{dy}{dx}$ is

 $(A) = \frac{\log x^{x}}{x - y}$

(B) $\frac{\log y^{x}}{x-y}$

(C) $\frac{\log y^{y}}{x-y}$

(D) $\frac{\log y^y}{y-x}$

61. If $y = \frac{x+1}{x+2}$, then $\frac{dy}{dx}$ is

 $(A) \quad \frac{1}{(x+2)^2}$

(B) $\frac{2x+3}{(x+2)^2}$

(C) $-\frac{1}{(x+2)^2}$

(D) $\frac{2x-3}{(x+2)^2}$

62. The equation of tangent to the curve $y^2 = 4x$ at (1, 2) is

(A) x + y - 3 = 0

(B) x - y + 1 = 0

 $(C) \quad 2x - y = 0$

(D) 2x + y - 4 = 0

Space For Rough Work

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63. The maximum value of $7 - 8x - 2x^2$ is

(A) 15

(B) -4

(C) -2

(D) - 31

64. The value of $\int \log 2x \, dx$ is

(A) $x \log 2x + x + C$

(B) $x \log 2x - x + C$

(C) $\frac{1}{2x} + C$

(D) $\frac{1}{x}$ + C

65. The value of $\int \sec^4 x \cdot \tan x \, dx$

 $(A) \quad \frac{\sec^4 x}{4} + C$

(B) $4 \sec^4 x + C$

(C) $3 \sec^2 x + C$

(D) $\frac{\tan^4 x}{4} + C$

66. The value of $\int x \log x \, dx$ is

(A) $\frac{x^2}{2} \log x - \frac{x^2}{2} + C$

(B) $\frac{x^2}{2} \log x + \frac{x^2}{2} + C$

(C) $\frac{x^2}{2} \log x - \frac{x^2}{4} + C$

(D) $\frac{x^2}{2} \log x + \frac{x^2}{4} + C$

67. $\int_{0}^{\pi/4} \tan^2 x \, dx \text{ is equal to}$

 $(A) \quad \frac{\pi}{4} - 1$

(B) $1-\frac{\pi}{4}$

 $(C) = \frac{\pi^2}{16}$

(D) $\frac{\pi^2}{16} - 1$

68. The value of $\int_{0}^{1} x \sqrt{1 - x^2} \, dx$ is

(A)
$$-\frac{1}{3}$$

(D)
$$\frac{1}{3}$$

69. The volume generated by revolving the line y = x + 1 about the x-axis between the ordinates x = 0 and x = 2

(A)
$$\frac{26 \pi}{3}$$
 units

(B)
$$\frac{10 \pi}{3}$$
 units

(C)
$$\frac{26}{3}$$
 units

70. The degree and order of the differential equation $\frac{d^2y}{dx^2} = \left[1 + \left(\frac{dy}{dx}\right)^2\right]^{1/3}$ are

71. The solution of differential equation $\frac{dy}{dx} + y \tan x = \sec x$ is

(A)
$$y \sec x = \tan x + C$$

(B)
$$y \sin x = \sec x + C$$

(C)
$$\log(\sec x) = \tan x + C$$

(D)
$$y \sec x = -\cot x + C$$

72. The value of x if $\begin{vmatrix} 1 & 2 & 3 \\ 2 & x & 3 \\ 3 & 4 & 3 \end{vmatrix} = 0$ is

 $(A) \quad 0$

(B) -3

(C) 3

(D) 18

73. The value of x, if 4x + y = 7, 3y + 4z = 5 and 3z + 5x = 2 is

(A) = 0

(B) 1

(C) 3

(D) -1

74. If $A = \begin{bmatrix} 2 & -1 \\ 3 & -4 \end{bmatrix}$, then A^{-1} is

 $(A) \quad -\frac{1}{5} \begin{bmatrix} -4 & -3 \\ 1 & 2 \end{bmatrix}$

 $(B) \quad -\frac{1}{5} \begin{bmatrix} -4 & 1 \\ -3 & 2 \end{bmatrix}$

(C) $-\frac{1}{11}\begin{bmatrix} -4 & -3\\ 1 & 2 \end{bmatrix}$

 $(D) \quad -\frac{1}{11} \begin{bmatrix} -4 & 1 \\ -3 & 2 \end{bmatrix}$

75. The characteristic equation of the matrix $A = \begin{bmatrix} 2 & -1 \\ 5 & -6 \end{bmatrix}$ is

(A) $A^2 + 8A - 71 = 0$

(B) $A^2 + 4A - 171 = 0$

(C) $A^2 + 4A + 7I = 0$

(D) $A^2 + 4A - 71 = 0$

76. If
$$\begin{bmatrix} 2 & 3 \\ 1 & 2 \end{bmatrix} + A = \begin{bmatrix} 5 & 1 \\ 3 & 2 \end{bmatrix}$$
, then A is

(A)
$$\begin{bmatrix} 3 & 2 \\ -2 & 0 \end{bmatrix}$$

(B)
$$\begin{bmatrix} 3 & -2 \\ 2 & 0 \end{bmatrix}$$

(C)
$$\begin{bmatrix} -2 & 3 \\ 2 & 0 \end{bmatrix}$$

(D)
$$\begin{bmatrix} 0 & 3 \\ -2 & 2 \end{bmatrix}$$

77. The middle term of the expansion of
$$\left(x^2 - \frac{2}{x}\right)^{24}$$
 is

(A)
$$^{-24}C_{10}2^{10}x^{12}$$

(B)
$$^{-24}C_{11}2^{12}x^{12}$$

(C)
$$^{-24}C_{13}2^{10}x^{10}$$

(D)
$$^{-24}C_{12}2^{12}x^{12}$$

78. The term independent of
$$x \ln \left(x^2 - \frac{4}{3x}\right)^9$$
 is

$$(A) {}^{9}C_{6}(4)^{6}$$

(B)
$${}^{9}C_{6}(3)^{-6}$$

(C)
$${}^{9}C_{6}\left(\frac{4}{3}\right)^{6}$$

(D)
$${}^{9}C_{6}\left(\frac{3}{4}\right)^{6}$$

79. If
$$3i - 2j + k$$
, $i - 3j + 5k$, $2i + j - 4k$ are the sides of a triangle, then the triangle is

- (A) Right angled triangle
- (B) Equilateral triangle

(C) Isosceles triangle

(D) Isosceles right angled triangle

80. If
$$\overrightarrow{a} = (2, -1, 4)$$
 and $\overrightarrow{b} = (2, -3, 4)$, then projection of \overrightarrow{a} on \overrightarrow{b} is

(A)
$$\frac{23}{\sqrt{21}}$$

(B)
$$\frac{23}{\sqrt{29}}$$

(C)
$$\frac{-23}{\sqrt{29}}$$

(D)
$$\frac{-23}{\sqrt{21}}$$

PART-C

COMPUTER SCIENCE

It consists of 81 to 180 questions:

81.	The loading of operating system from hard disk to main memory is called								
	(A)	Restart	(B)	Booting					
	(C)	Start	(D)	Shut down					
82.	dpi s	stands for							
	(A)	dots per ink	(B)	data per inch					
	(C)	dots per inch	(D)	data per ink					
83.	The	output of AND gate is HIGH when							
	(A)	Any input is HIGH	(B)	All inputs are HIGH					
	(C)	All inputs are LOW	(D)	Any input is LOW					
84.	The	simplified form of $(\bar{A} + B)(A + B)$	is						
	(A)	À	(B)	A + B					
	(C)	В	(D)	ĀB					
85.	Whi	ch law states $A(B + C) = AB + AC$?						
	(A)	Commutative	(B)	Distributive					
	(C)	Associative	(D)	Demorgan					
86.	Muli	tiplexer has							
	(A)	•							
	(B)	One input line and several output							
	(C)	One input line and one output line							
	(D)	Many input lines and many output	lines						
87.	Anl	oit counter has minimum flip	flops.						
	(A)	n – 1	(B)	n^2					
	(C)	n	(D)	2 ⁿ					

88.	A 'C	" variable cannot start with _	•					
	(A)	2	(B)	Z				
	(C)	alphabet	(D)	none of these				
89.	The	symbol for Bitwise AND open	rator is					
	(A)	&&	(B)	&				
	(C)	AND	(D)	None of these				
90.	The	one and only ternary operator	available in	ı C is				
	(A)	Increment operator	(B)	Decrement operator				
	(C)	Conditional operator	(D)	Assignment				
91.	The	only special character allowed	1 in construc	cting variable name in C is				
	(A)	Hyphen	(B)	Underscore				
	(C)	Caret	(D)	Colon				
92.	Whi	ch of the following is not a C	language ke	eyword?				
	(A)	union	(B)	void				
	(C)	new	(D)	default				
93.	The compiler will give error if you try to access array element at position 14 in a 10 element size array.							
	(A)	true	(B)	false				
	(C)	cannot say	(D)	none of these				
94.	Арс	ointer is declared by using a st	atement suc	ch as				
	(A)	int *P;	(B)	point;				
	(C)	point *P;	(D)	int P;				

95.	The	structure member operator is		
	(A)	period (·)	(B)	s
	(C)	&	(D)	>
96.	How	many structure variables of a give	n type	can be used in a program?
	(A)	0	(B)	• 1
	(C)	as many as you like	(D)	as many as elements in the structure
97.		re are memory management	ent fu	unctions for allocating and freeing memory
	(A)	2	(B)	3
	(C)	.4	(D)	5
98.	If fo	pen () fails it returns		
	(A)	1	(B)	-1
	(C)	NULL	(D)	the file pointer
99.	Each	string ends with a special characte	r	•
	(A)	\ n	(B)	44
	(C)	\ o	(D)	END
100.	The	following function finds the length	of a st	tring:
	(A)	strlen()	(B)	len()
	(C)	strlength()	(D)	length()
101.	Shor	thand notation for $a = a + 2$ is	·	
	(A)	a = +2	(B)	$\mathbf{a} += 2$
	(C)	a++	(D)	all of the above

102.	Byd	efault,	_ is the return type of	a C fu	unction.
	(A)	int		(B)	float
	(C)	void		(D)	double
103.	In _	notatio	1, the operator appear	s befor	re the operands.
	(A)	infix		(B)	postfix
	(C)	prefix		(D)	suffix
104.	If A	=3, B=4 and	1C = 5 the value of A	ABC*+	- is
	(A)	23		(B)	60
	(C)	27		(D)	35
105.	Tryii	ng to push an	element into a stack (that is	full leads to
	(A)	overtlow		(B)	underflow
	(C)	full		(D)	null
106.	A da		here elements can be	added	or removed at either end but not in the middle
	(A)	linked list		(B)	stack
	(C)	queue	,	(D)	dequeue
107.	The end i		which allows deleti	ons at	both ends of the list but insertion at only one
	(A)	input-restric	ted dequeue	(B)	output-restricted dequeue
	(C)	priority que	le	(D)	none of these
108.	NUL	.L pointer is u	ised to tell		
	(A)	end of linked	d list	(B)	empty pointer field of a structure
	(C)	the variable	list is empty	(D)	none of these

109.	Each	node of a doubly linked list has		
	(A)	two fields	(B)	one field
	(C)	three fields	(D)	four fields
110.		rictly binary tree of depth 'd' and a ry tree.	ll of v	vhose leaves are at level 'd' is called
	(A)	complete	(B)	incomplete
	(C)	almost complete	(D)	B-tree
111.	The	binary tree traversed in post order is	s	
	(A)	left, root, right	(B)	left, right, root
	(C)	root, left, right	(D)	right, left, root
112.	Α	node in a tree is the first node	in hic	erarchical arrangement of nodes.
	(A)	root	(B)	leaf
	(C)	non-leaf	(D)	child
113.		address of a station on the same i	netwoi	k can be accessable by bridge.
	(A)	Port	(B)	Physical
	(C)	Logical	(D)	Virtual
114.		internetworking device operate	es at tr	ansport layer.
	(A)	Repeater	(B)	Bridge
	(C).	Router	(D)	Gateway
115.	The	signal is in the form of wave	in fib	er optics.
	(A)	Light	(B)	Infrared
	(C)	Low frequency	(D)	radio

116.	Micr	owaves are		
	(A)	Bidirectional	(B)	Unidirectional
	(C)	Omnidirectional	(D)	None of these
117.	The	conductors in co-axial cable will be	ave	
	(A)	Same diameter	(B)	Equal resistance
	(C)	A common axis	(D)	None of these
118.	Copp	per wire is an example of me	edia.	
	(A)	Group	(B)	Guided
	(C)	Unguided	(D)	Ungroup
119.		is used to configure VLAN.		
	(A)	Software	(B)	Hardware
	(C)	Mindware	(D)	Thinwire
120.	Repo	eater works or operates only in the		layer.
	(A)	Transport	(B)	Physical
	(C)	Network	(D)	None of these
121.	The	backbone is just one switch in a	1	backbone.
	(A)	Ring	(B)	Bus
	(C)	Star	· (D)	None of these
122.	We	do not send entire frame and then b	look fo	r a in CSMA/CD.
	(A)	Delay	(B)	Collision
	(C)	Station	(D)	Signat
		Space I	For Ro	ugh Work

123.	Whe	re does the default parameter is place	eed by	the user in C++ function?	
	(A)	Leftmost	(B)	Rightmost	
	(C)	Middle	(D)	Anywhere	
124.	cout	is a			
	(A)	operator	(B)	function	
	(C)	object	(D)	macro	
125.	The	concept that determines what metho	d to ii	nvoke during runtime.	
	(A)	Data hiding	(B)	Dynamic loading	
	(C)	Dynamic binding	(D)	Dynamic typing	
126.	Rega	arding constructor	•		
	(A)	A constructor has return type			
	(B)	A constructor cannot be overloade	d	•	
	(C)	A constructor has a different name	than	the class in which it is present	
	(D)	A constructor has the same name a	s the	class in which it is present	
127.	Whe	never an object goes out of scope,			
	(A)	the default constructor of the object	et is ca	illed.	
	(B)	the parameterized destructor is call	led.		
	(C)	copy constructor is called.			
	(D)	the destructor of the object is calle	d.		
128.	The	operator cannot be overloaded			
	(A)	+	(B)	++	
	(C)	::	(D)	<<	
129.	Oper	ator overloading is			,
	(A)	Creating new operators in C++			
	(B)	Giving new meaning to existing C	++ op	erators	
	(C)	To load C++ operators to memory			
	(D)	To bring other language operators	to C+	+	
				·	

130.	Mult	Multiple inheritance is						
	(A)	Deriving a single class from one b	ase cla	ass.				
	(B)	Deriving more than one class from one base class.						
	(C)	Deriving one class from more than one base class.						
	(D)	Combination of more than one inh	eritan	ce type.				
131.		se class has constructor with argur tructor.	nents	then it is for the derived class to have				
	(A)	Optional	(B)	Mandatory				
	(C)	Error	(D)	Compiler dependent				
132.	A pr	otected member of the base class is	acces	sed in				
	(A)	Only in same class	(B)	same class and derived class				
	(C)	Outside the class	(D)	Only in derived class				
133.	write	e () is a member function of						
	(A)	istream	(B)	ostream				
	(C)	stream	(D)	file				
134.	The	function used to change the location	ns of t	he get position				
	(A)	tellg()	(B)	seekg()				
	(C)	sg()	(D)	tg()				
135.	The	correct syntax to close a file is						
	(A)	infile : close()	(B)	infile \$ close()				
	(C)	infile · close()	(D)	infile? close()				

B-1

_	[0] in command the arguments i							
(A)		•						
(B)		n was in	voked.					
(C)	(C) Count of arguments.							
(D)	None of these.							
The	function template is							
(A)	Creating a function without have	zing to sp	pecify the exact type					
(B)	Creating a function with having	g a exact	type.					
(C)	Creating a class without having	to speci	fy the exact type.					
(D)	None of these.							
Byd	lefault the variable declared insid	le the inte	erface					
(A)	public, final and static	(B)	private, final and static					
(C)	protected, final and static	(D)	friendly, final and static					
A pa	ackage is a collection of	•						
(A)	editing tools	(B)	classes					
(C)	interfaces	(D)	classes and interfaces					
The	use of protected keyword to a me	ember in	a class will restrict its visibility as					
(A)	Visible only in the class and its	subclass	in the same package.					
(B)								
(C)								
(D)	Visible only in the class where	it is decla	ared.					
The	thread can be killed by using the	method _	·					
(A)	kill()	(B)	dead()					
(C)	exit()	(D)	stop()					
	(B) (C) (D) The (A) (B) (C) (D) A pa (A) (C) The (A) (B) (C) (D) The (A) (B) (C) (D)	(B) The name by which the program (C) Count of arguments. (D) None of these. The function template is (A) Creating a function without having (B) Creating a function with having (C) Creating a class without having (D) None of these. By default the variable declared insid (A) public, final and static (C) protected, final and static (C) protected, final and static A package is a collection of (A) editing tools (C) interfaces The use of protected keyword to a me (A) Visible only in the class and its (B) Visible only inside the same pa (C) Visible in all classes in the sam (D) Visible only in the class where The thread can be killed by using the (A) kill()	(B) The name by which the program was in (C) Count of arguments. (D) None of these. The function template is (A) Creating a function without having to specify (B) Creating a function with having a exact (C) Creating a class without having to specify (D) None of these. By default the variable declared inside the integration of (A) public, final and static (B) (C) protected, final and static (D) A package is a collection of (A) editing tools (B) (C) interfaces (D) The use of protected keyword to a member in (A) Visible only in the class and its subclass (B) Visible only inside the same package. (C) Visible in all classes in the same package (D) Visible only in the class where it is declarated the class where it is					

142.	The	method is r	not used to implen	nent ir	nterthread communication.	
	(A)	notify()		(B)	notifyall()	
	(C)	yield()		(D)	wait()	
143.		is a technique econdary memory	• .	cess te	mporarily from main memory and place them	
	(A)	Swapping		(B)	Fragmentation	
	(C)	Thrashing		(D)	dispatch	
144.		scheduler select	ts process from jo	b queu	ie.	
	(A)	Short term		(B)	Long term	
	(C)	Medium term		(D)	None of these	
145.	The interval from the time of submission of a process to the time of completion is known as					
	(A)	turnaround time		(B)	throughput	
	(C)	waiting time		(D)	response time	
146.	In _	scheduling	algorithm, the pro	ocesse:	s are permanently assigned to the queue.	
	(A)	multilevel queuc	2	(B)	multilevel feedback queue	
	(C)	RR		(D)	SJF	
147.	The	base register is als	so known as	re	egister.	
	(A)	limit		(B)	relocation	
	(C)	stack		(D)	instruction	
			Space F	or Rot	igh Work	

148.		register specifies the length of t	the seg	ment.	
	(A)	Relocation	(B)	Limit	
	(C)	Base	(D)	Instruction	
149.		ting of memory between partition ontiguous area is called	due to	scattering of the free space into a number of	
	(A)	internal fragmentation	(B)	external fragmentation	
	(C)	compaction	(D)	paging	
150.	In m	emory allocation, allocating smalle	est hole	e that is big enough to the requesting process is	
	(A)	Best fit	(B)	Worst fit	
	(C)	First fit	(D)	Last fit	
151.		pose that a process is in BLOCK ice is completed it goes to the		ate waiting for some I/O service. When the	
	(A)	Running	(B)	Ready	
	(C)	Suspend	(D)	Dead	
152.		maps logical address to physical	addres	SS.	
	(A)	Cache	(B)	CPU	
	(C)	MMU	(D)	RAM	
153.	The	tables in SQL are also called as	in	Relational algebra.	
	(A)	Attributes	(B)	Tuple	
	(C)	Domain	(D)	Relation	
	Space For Rough Work				

		Space I	for Ro	ugh Work
	(C)	bool	(D)	cookies
	(A)	state	(B)	resource
160.		HP, the state information on a clier		
	(A) (C)	,	(D)	1
15//	(A)			undef
159.	The	uninitialized variables in PHP have	ė	value.
	(C)	break()	(D)	terminate()
	(A)		(B)	die()
158.		Script execution in PHP is termina		
	(C)	Generalization	(D)	Serialization
·	(A)	Aggregation	(B)	Specialization
157.	The	special form of association is called	d	
	(C)	select	(D)	drop
		delete	(B)	insert
156.		is an example for DDL comma		incont
156		is an assumate for DDI commo	d	
	(C)	Schema	(D)	Domain
	(A)	Relation	(B)	Table
155.		_ is the structure of the database.		
	(C)	Max	(D)	Select
		Min	(B)	Avg
154.		1. A.	(D)	•

161.		function stremp returnsnd string.	in PHP,	if the first string alphabetically precedes the
	(A)	-1	(B)	ф
	(C)	1	(D)	NIL
162.	РНР	stores the environment variables	& their	values in the
	(A)	\$_SERVER	(B)	\$_ENV
	(C)	\$Key	(D)	\$value
163.	****	function is used to specify car	se-insens	itive pattern matches in PHP.
	(A)	ereg	(B)	preg
	(C)	eregi	(D)	eregignore
164.		is used to display superscript	in XML.	
	(A)	msub	(B)	msup
	(C)	super	(D)	sub
165.	In,X	ML, method returns the na	ime of the	e attribute.
	(A)	getValue	(B)	getData
	(C)	getName	(D)	getLength
166.		is not an entity in XML.		
	(A)	<	(B)	>
	(C)	&	(D)	&eq
67.		keyword specifies that the attri	bute mus	t be in the document.
	(A)	#FIXED	(B)	#VARIABLE
	(C)	#IMPLIED	, ,	#REQUIRED
		Chana	Ear Dans	sh Wault

168.	The	most used layout of a keyboard is		
	(A)	QWERTY	(B)	SULTRY
	(C)	AZERTY	(D)	DVORAK
169.	The	physical form of output is known as		
	(A)	Hard copy	(B)	Soft copy
	(C)	Hardware	(D)	Software
170.	À ple	otter is a device.		
	(A)	Input	(B)	Storage
	(C)	Output	(D)	All of these
171.	Whic	ch of the following is not a magnetic	e disk	?
	(A)	Floppy disk	(B)	Hard disk
	(C)	Optical disk	(D)	Zip disk
172.	The	time taken by the read/write head to	move	onto the desired track is called
	(A)	latency time	(B)	seek time
	(C)	response time	(D)	access time
173.		_ retains stored information as long	as the	e power supply is on.
	(A)	static RAM	(B)	dynamic RAM
	(C)	ROM	(D)	EPROM

174.		are the basic components of the second generation computers.						
	(A)	Vacuum tubes	(B)	Microprocessor				
	(C)	Transistors	(D)	IC				
175.	Full	form of PDA is						
	(A)	Personal Digital Assistant	(B)	Private Digital Assistant				
	(C)	Personal Data Assistant	(D)	Personal Discrete Assistant				
176.	RAN	A is a memory.						
	(A)	volatile	(B)	non-volatile				
	(C)	permanent	(D)	versatile				
177.		looks like photocopier machin	e.					
	(A)	Hand held scanner	(B)	Flat bed scanner				
	(C)	Bar code reader	(D)	Light pen				
178.		_ printer is an example for impa	ct printer					
	(A)	Inkjet	(B)	Dot matrix				
	(C)	Laser	(D)	All of these				
179.		characteristic of the computer ness and lack of concentration is		ells that the computer does not suffer from				
	(A)	Versatility	(B)	Reliability				
	(C)	Diligence	(D)	Accuracy				
180.	VGA	A stands for						
	(A)	Video Graphics Array	(B)	Versatile Graphics Array				
	(C)	Vast Graphics Array	(D)	All of these				
		<u> </u>						

