(CSE)

COMPUTER SCIENCE AND ENGINEERING INSTRUCTIONS TO CANDIDATES

- Candidates should write their Hall Ticket Number only in the space provided at the top left hand corner of this page, on the leaflet attached to this booklet and also in the space provided on the OMR Response Sheet. BESIDES WRITING, THE CANDIDATE SHOULD ENSURE THAT THE APPROPRIATE CIRCLES PROVIDED FOR THE HALL TICKET NUMBERS ARE SHADED USING H.B. PENCIL ONLY ON THE OMR RESPONSE SHEET. DO NOT WRITE HALL TICKET NUMBER ANY WHERE ELSE.
- 2. Immediately on opening this Question Paper Booklet, check:
 - (a) Whether 200 multiple choice questions are printed (50 questions in Mathematics, 25 questions in Physics, 25 questions in Chemistry and 100 questions in Engineering)
 - (b) In case of any discrepancy immediately exchange the Question paper Booklet of same code by bringing the error to the notice of invigilator.
- 3. Use of Calculators, Mathematical Tables and Log books is not permitted.
- Candidate must ensure that he/she has received the Correct Question Booklet, corresponding to his/her branch of Engineering.
- 5. Candidate should ensure that the booklet Code and the Booklet Serial Number, as it appears on this page is entered at the appropriate place on the OMR Response Sheet by shading the appropriate circles provided therein using H.B. pencil only. Candidate should note that if they fail to enter the Booklet Serial Number and the Booklet Code on the OMR Response Sheet, their Answer Sheet will not be valued.
- 6. Candidate shall shade one of the circles 1, 2, 3 or 4 corresponding question on the OMR Response Sheet using H.B. Pencil only. Candidate should note that their OMR Response Sheet will be invalidated if the circles against the question are shaded using Black / Blue ink pen / Ball pen / any other pencil other than H.B. Pencil or if more than one circle is shaded against any question.
- One mark will be awarded for every correct answer. There are no negative marks.
- The OMR Response Sheet will not be valued if the candidate :
 - (a) Writes the Hall Ticket Number in any part of the OMR Response Sheet except in the space provided for the purpose.
 - (b) Writes any irrelevant matter including religious symbols, words, prayers or any communication whatsoever in any part of the OMR Response Sheet.
 - (c) Adopts any other malpractice.
- Rough work should be done only in the space provided in the Question Paper Booklet.
- No loose sheets or papers will be allowed in the examination hall.
- 11. Timings of Test: 10.00 A.M. to 1.00 P.M.
- 12. Candidate should ensure that he / she enters his / her name and appends signature on the Question paper booklet, leaflet attached to this question paper booklet and also on the OMR Response Sheet in the space provided. Candidate should ensure that the invigilator puts his signature on this question paper booklet, leaflet attached to the question paper booklet and also on the OMR Response Sheet.
- 13. Before leaving the examination hall candidate should return both the OMR Response Sheet and the leaflet attached to this question paper booklet to the invigilator. Failure to return any of the above shall be construed as malpractice in the examination. Question paper booklet may be retained by the candidate.
- 14. This booklet contains a total of 32 pages including Cover page and the pages for Rough Work.

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Vote: (1) Answer all questions.

- (2) Each question carries I mark. There are no negative marks.
- (3) Answer to the questions must be entered only on OMR Response Sheet provided separately by completely shading with H.B. Pencil, only one of the circles 1, 2, 3 or 4 provided against each question, and which is most appropriate to the question.
- (4) The OMR Response Sheet will be invalidated if the circle is shaded using ink / ball pen or if more than one circle is shaded against each question.

MATHEMATICS

If
$$A = \begin{bmatrix} 3 & 0 & 0 \\ 0 & 3 & 0 \\ 0 & 0 & 3 \end{bmatrix}$$
, then $A^4 =$

- (1) 3I
- (2) 9I
- (3) 271
- (4) 811

TM

If
$$A = \begin{bmatrix} 0 & 2 & 1 \\ -2 & 0 & -2 \\ -1 & x & 0 \end{bmatrix}$$
 is a skew symmetric matrix, then the value of x is

- (1) 1
- (2) 2
- (3) 3
- (4) 4

What is the number of all possible matrices with each entry as 0 or 1 if the order of matrices is 3×3

- (1) 64
- (2) 268
- (3) 512
- (4) 256

If
$$A = \begin{bmatrix} 1 & i & -i \\ i & -i & 1 \\ -i & 1 & i \end{bmatrix}$$
, then $|A| =$

- (1) 1
- (2)
- (3) 3
- (4) 4

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5. The solution of a system of linear equations $2x - y + 3z = 9$, $x + y + z = 6$, $x - y + z = 6$	7 = 2	2	i
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- (1) x = -1, y = -2, z = -3
- (2) x = 3, y = 2, z = 1
- (3) x = 2, y = 1, z = 3
- (4) x = 1, y = 2, z = 3

6. If
$$\frac{1}{x^2 + a^2} = \frac{A}{x + ai} + \frac{B}{x - ai}$$
 then A = ______, B = _____

- (1) $\frac{1}{2ai}$, $-\frac{1}{2ai}$ (2) $-\frac{1}{2ai}$, $\frac{1}{2ai}$ (3) $\frac{1}{ai}$, $-\frac{1}{ai}$ (4) $-\frac{1}{ai}$, $\frac{1}{ai}$

7. If
$$\frac{2x+4}{(x-1)^3} = \frac{A_1}{(x-1)} + \frac{A_2}{(x-1)^2} + \frac{A_3}{(x-1)^3}$$
 then $\sum_{i=1}^3 A_i$ is equal to

- (1) A,
- (2) 2A,
- (3) 4A,

8. The period of the function
$$f(x) = |\sin x|$$
 is

- (1) π
- (2) 2π

- (1) 1
- (2) 0
- (3) 2

- (2) $\frac{\sqrt{5}+1}{2}$
 - (3) $\frac{\sqrt{5}-1}{2}$

11. If
$$A+B+C = \pi$$
, then $\sin 2A + \sin 2B + \sin 2C =$

(1) 4 cosA sinB cosC

(2) 4 sinA cosB sinC

(3) 4 cosA cosB cosC

(4) 4 sinA sinB sinC

12. The principal solution of
$$Tanx = 0$$
 is

(1) $x = n\pi, n \in \mathbb{Z}$

(2) x=0

(3) $x=(2n+1) \pi/2, n \in \mathbb{Z}$

(4) $x = n\pi + \alpha, n \in \mathbb{Z}$

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1 4	The value	of lan-		+ lan ·	1.3) IS
1 .	I JIC TUILUC	OL LUII	1-		1-	,

- (2) $\frac{\pi}{2}$ (3) $\frac{\pi}{3}$

14. If the sides of a right angle triangle are in A.P., then the ratio of its sides is

- (1) 1:2:3
- (2) 2:3:4
- (3) 3:4:5
- (4) 4:5:6

15. The value of
$$r.r_1.r_2.r_3$$
 is

- (1) Δ^2
- (2) Δ⁻²

16.
$$\frac{1}{r1} + \frac{1}{r2} + \frac{1}{r3} =$$
(1) $\frac{1}{r}$
(2) $\frac{1}{2r}$
(3) $\frac{1}{R}$
(4) $\frac{1}{\Delta}$

- 17. If a=6, b=5, c=9, then the value of angle A is
- (1) $\cos^{-1}(2/9)$ (2) $\cos^{-1}(2/5)$ (3) $\cos^{-1}(7/9)$ (4) $\cos^{-1}(1/3)$

18. The polar form of complex number
$$1-i$$
 is

- (1) $\sqrt{2}e^{-i\pi/4}$ (2) $\sqrt{2}e^{i\pi/4}$ (3) $\sqrt{2}e^{i\pi/2}$

19. If
$$1, \omega, \omega^2$$
 be the cube roots of unity, then the value of $2^{\omega^3}.2^{\omega^5}.2^{\omega}$ is

- (1) w
- (2) ω^2
- (3) 1
- (4) 0

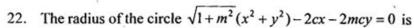
20. The intercept made on X-axis by the circle
$$x^2+y^2+2gx+2fy+c=0$$
 is

- (1) $\sqrt{g^2-c}$
- (2) $\sqrt{f^2-c}$ (3) $2.\sqrt{g^2-c}$ (4) $2.\sqrt{f^2-c}$

21. If one end of the diameter of the circle
$$x^2+y^2-5x-8y+13=0$$
 is (2, 7), then the other end of the diameter is

- (1) (3, 1)
- (2) (1,3)
- (3) (-3, -1) (4) (-1, -3)

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- (1) 2c
- (3) c/2
- (4) c

23. The parametric equations of the ellipse
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$
 are

- (1) $x = a \sec \theta, y = b \tan \theta$
- (2) $x = b \sin\theta, y = a \cos\theta$
- (3) $x = a \cos\theta, y = b \sin\theta$
- (4) $x = a \csc\theta, y = b \cot\theta$

24. The equation of the directrix of the parabola
$$2x^2 = -7y$$
 is

- (1) 8y+7=0
- (2) 8y-7=0
- (3) 7y+8=0
- (4) 8x-7=0

25. The condition for a straight line
$$y = mx + c$$
 to be a tangent to the hyperbola $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ is

- (1) c = a/m
- (2) $c^2 = a^2m^2 b^2$ (3) $c^2 = a^2m^2 + b^2$ (4) $c^2 = a/m$

26. Lt
$$\frac{\sqrt{5x-4}-\sqrt{x}}{x-1}$$
 is

- (1) 3
- (3) 4
- (4) 1

27.
$$\log i =$$

- (1) $\pi/2$
- (2) $\pi/4$

$$28. \quad \frac{d}{dx}[\log_7 X] =$$

- (1) $\frac{1}{x}$ (2) $X \log_7^e$ (3) $\frac{1}{x} \log_7^e$ (4) $\frac{1}{x} \log_7^e$

29.
$$\frac{d}{dx}[2\cosh x] =$$

- (1) $\frac{e^x + e^{-x}}{2}$ (2) $\frac{e^x e^{-x}}{2}$ (3) $e^x + e^{-x}$ (4) $e^x e^{-x}$

30.
$$\frac{d}{dx} \left[\cos^{-1} \left(\frac{1 - x^2}{1 + x^2} \right) \right] =$$

- (1) $\frac{1}{1+x^2}$ (2) $\frac{-1}{1+x^2}$ (3) $\frac{2}{1+x^2}$

31. If
$$x = at^2$$
, $y = 2at$, then $\frac{dy}{dx} =$

- (1) $\sqrt{\frac{y}{x}}$ (2) $\sqrt{\frac{x}{a}}$ (3) $\sqrt{\frac{a}{x}}$

32. The derivative of
$$e^x$$
 with respect to \sqrt{x} is

$$(1) \quad \frac{2\sqrt{x}}{e^x}$$



33. The equation of the normal to the curve
$$y = 5x^4$$
 at the point $(1, 5)$ is

- (1) x + 20y = 99 (2) x + 20y = 101 (3) x 20y = 99 (4) x 20y = 101

34. The angle between the curves
$$y^2 = 4x$$
 and $x^2 + y^2 = 5$ is

- (1) $\frac{\pi}{4}$
- (2) tan-1(2)
- (3) $tan^{-1}(3)$
- (4) $tan^{-1}(4)$

35. If
$$u = x^3y^3$$
 then $\frac{\partial^3 u}{\partial x^3} + \frac{\partial^3 u}{\partial y^3} =$

- (1) $6(x^3+y^3)$ (2) $6x^3y^3$
- (3) $6x^3$

36.
$$\int \csc x dx =$$

- (1) $\log(\csc x + \cot x) + C$
- (2) $\log(\cot x/2) + C$

(3) $\log (\tan x/2) + C$

(4) $-\csc x \cdot \cot x + C$

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37.
$$\int_0^{\frac{\pi}{2}} \cos^{11} x \, dx =$$

- (1) $\frac{256}{693}$ (2) $\frac{256\pi}{693}$ (3) $\frac{\pi}{4}$ (4) $\frac{128}{693}$

38.
$$\int f'(x) [f(x)]^n dx =$$

(1)
$$\frac{[f(x)]^{n-1}}{n-1} + C$$
 (2) $\frac{[f(x)]^{n+1}}{n+1} + C$ (3) $n[f(x)]^{n-1} + C$ (4) $(n+1)[f(x)]^{n+1} + C$

(2)
$$\frac{[f(x)]^{n+1}}{n+1} + C$$

(3)
$$n[f(x)]^{n-1} + C$$

(4)
$$(n+1)[f(x)]^{n+1} + C$$

$$39. \quad \int \frac{dx}{(x+7)\sqrt{x+6}} =$$

(1)
$$Tan^{-1}(\sqrt{x+6})+C$$

(2)
$$2Tan^{-1}(\sqrt{x+6})+C$$

(3)
$$Tan^{-1}(x+7)+C$$

(4)
$$2Tan^{-1}(x+7)+C$$
 TM

$$40. \quad \int \tan^{-1} x \, dx =$$

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

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

$$(3) \quad x^2.Tan^{-1}x + C$$

(4)
$$x.Tan^{-1}x - \log \sqrt{1+x^2} + C$$

$$41. \quad \int \frac{dx}{1+e^{-x}} =$$

(1)
$$\log (1+e^{-x}) + C$$

(3) $e^{-x} + C$

(2)
$$\log (1+e^x) + C$$

(4) $e^x + C$

(3)
$$e^{-x} + C$$

(4)
$$e^{x} + C$$

42.
$$\int_{-\frac{\pi}{2}}^{\frac{7}{2}} \sin|x| \, dx =$$

- (2) 1

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- 43. Area under the curve $f(x) = \sin x$ in $[0, \pi]$ is
 - (1) 4 sq. units
- (2) 2 sq. units
- (3) 6 sq. units
- (4) 8 sq. units

- 44. The order of $x^3 \frac{d^3 y}{dx^3} + 2x^2 \frac{d^2 y}{dx^2} 3y = x$ is
 - (1) 1
- (2) 4
- (3) 3
- (4) 2

- 45. The degree of $\left[\frac{d^2 y}{dx^2} + \left(\frac{dy}{dx} \right)^2 \right]^{\frac{3}{2}} = a \frac{d^2 y}{dx^2}$ is
 - (1) 4
- (2) 2
- (3) 1
- 46. The family of straight lines passing through the origin is represented by the differential equation
- (1) ydx + xdy = 0 (2) xdy ydx = 0 (3) xdx + ydy = 0 (4) xdx ydy = 0

TIM

- The differential equitation $\frac{dy}{dx} + \frac{ax + hy + g}{hx + by + f} = 0$ is called
 - (1) Homogeneous (2) Exact

- 48. The solution of differential equation $\frac{dy}{dx} = e^{-x^2} 2xy$ is
 - (1) $y \cdot e^{-x^2} = x + c$ (2) $y e^x = x + c$ (3) $y e^{x^2} = x + c$ (4) y = x + c

- 49. The complementary function of $(D^3+D^2+D+1)y = 10$ is
 - (1) $C_1 \cos x + C_2 \sin x + C_3 e^{-x}$
- (2) $C_1 \cos x + C_2 \sin x + C_3 e^x$
- (3) $C_1 + C_2 \cos x + C_3 \sin x$
- (4) $(C_1 + C_2x + C_3x^2)e^x$
- 50. Particular Integral of $(D-1)^4y = e^x$ is

 - (1) $x^4 e^x$ (2) $\frac{x^4}{24} e^{-x}$ (3) $\frac{x^4}{12} e^x$ (4) $\frac{x^4}{24} e^x$

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	PHYSICS
51.	Two quantities A and B are related by the relation $A/B = m$ where m is linear mass density and A is force. The dimensions of B will be
	(1) same as that of latent heat (2) same as that of pressure
	(3) same as that of work (4) same as that of momentum
52.	The dimensional formula of capacitance in terms of M, L, T and I is
	(1) $[ML^2T^2I^2]$ (2) $[ML^{-2}T^4I^2]$ (3) $[M^{-1}L^3T^3I]$ (4) $[M^{-1}L^{-2}T^4I^2]$
53.	If l, m and n are the direction cosines of a vector, then
	(1) $l+m+n=1$ (2) $l^2+m^2+n^2=1$ (3) $\frac{1}{l}+\frac{1}{m}+\frac{1}{n}=1$ (4) $lmn=1$
54.	The angle between i+j and j+k is (1) 0° . (2) 90° (3) 45° (4) 60°
55.	A particle is moving eastwards with a velocity of 5 ms ⁻¹ . In 10 seconds the velocity changes to 5 ms ⁻¹ northwards. The average acceleration in this time is
	(1) $\frac{1}{\sqrt{2}}$ ms ⁻² towards north-west (2) zero
	(3) $\frac{1}{2}$ ms ⁻² towards north (4) $\frac{1}{\sqrt{2}}$ ms ⁻² towards north-east
56.	The linear momentum of a particle varies with time t as $p = a+bt+ct^2$ which of the following is correct?
	1) Force varies with time in a quadratic manner.
	2) Force is time-dependent.

- - (3) The velocity of the particle is proportional to time.
 - (4) The displacement of the particle is proportional to t.
- 57. A shell of mass m moving with a velocity v suddenly explodes into two pieces. One part of mass m/4 remains stationary. The velocity of the other part is
 - (1) v
- (2) 2v
- (3) $3\nu/4$ (4) $4\nu/3$

58. The velocity of a freely falling body after 2s is

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	(1)	9.8 ms ⁻¹	(2)	10.2 ms ⁻¹	(3)	18.6 ms ⁻¹	(4)	19.6 ms ⁻¹	
59.	A lar	rge number of ground on which	bullets ar	re fired in all d bullets will sp	lirections read is	with the same	speed u	. The maximu	m area on
ē.	(1)	$\frac{\pi u^2}{g^2}$	(2)	$\frac{\pi u^4}{g^2}$	(3)	$\frac{\pi u^2}{g^4}$	(4)	$\frac{\pi u}{g^4}$	
50.	The the c	minimum stop coefficient of f	ping distriction b	tance for a car etween the ty	of mass	m, moving with he road is μ, v	th a spee vill be	d v along a lev	el road, if
	(1)	$\frac{v^2}{2\mu g}$	(2)	$\frac{v^2}{\mu g}$	(3)	$\frac{v^2}{4\mu g}$	(4)	$\frac{v}{2\mu g}$	
51.		en a bicycle is that it acts		7	i i o	-			
	(1)	In the backwa	ard direc	tion on the fro	ont wheel	and in the for	w ard dir	ection on the	rear wheel
	(2)	In the forwar	d direction	on on the fron	t wheel a	nd in the back	ward dir	ection on the	rear wheel
	(3)	In the backw	ard direc	tion on both t	he front a	and the rear w	heels		20
	(4)	In the forwar	d directi	on on both the	e front an	d the rear who	eels		•
62.	In a	perfectly inela	stic coll	ision, the two	bodies				90
	(1)	strike and ex	plode		(2)	explode with	out strik	ing	
	(3)	implode and	explode		(4)	combine and	move to	gether	
63.		er the action o	f a const	ant force, a pa	article is	experiencing	a consta	nt acceleratio	n, then the
	•	zero			(2)	positive			
	(3)				(4)	increasing u	niformly	with time	
			5.						3

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64.	Con	sider the follow	ing tw	o statements:			
	A:	Linear momen	itum c	of a system of pa	articles	is zero.	
	B:	Kinetic energy	ofa	system of partic	les is z	ero.	
	The						
	(1)	A implies B &	B imp	olies A	(2)	A does no	ot imply B & B does not imply
	(3)		90.55.975	es not imply A	(4)		ot imply B but B implies A
65.	An e	engine develops ht of 40 m? (Gi	10 kV	W of power. Ho = 10 ms ⁻²)	w muc	h time will	it take to lift a mass of 200 k
	(1)	4s	(2)	5s	(3)	8s	(4) 10s
66.	If a s		eriod (2)	T, and is cut int	o <i>n</i> equ	al parts, th	en the time period will be
		. Y.		\sqrt{n}	(-)		
67.	Whe	n temperature in	ncreas	es, the frequenc	yofat	uning fork	
	(1)	increases					
	(2·)	decreases					
						(4)	*
	(3)	remains same				0.0	
			crease	s depending on	the ma	terials	
	(3)		crease	s depending on	the ma	terials	e 0 9
68.	(3) (4)	increases or de				2	, its time period is

12.4

(1) 850 w-m^2 (2) 82.50 w-m^2 (3) 8.250 w-m^2 (4) 0.825 w-m^2

The total absorption in the hall should be

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70.	To absorb the sound in a hall which of the	ne followi	ng are used			
70.	(1) Glasses, stores	(2)	Carpets, curtai	ns		
	(3) Polished surfaces	(4)	Platforms			
71.	If N represents avagadro's number, then	the numb	er of molecules	in 6 gr	n of hydroge	n at NTP is
/1.		(3)	N	(4)	N/6	
	(1) 2N (2) 3N	(-)				
72.	The mean translational kinetic energy of	f a perfec	t gas molecule	at the t	emperature T	K is
	$(1) \frac{1}{2}kT \qquad \qquad (2) kT$				2kT TM	
73.		ich raises	100	apacity	,	U *
74.	During an adiabatic process, the pressuabsolute temperature. The ratio Cp/Cv	re of a ga for gas is	as is found to be	propo	rtional to the	cube of its
	(1) $\frac{3}{2}$ (2) $\frac{4}{3}$			(4)	$\frac{5}{3}$	* * *
75.	Cladding in the optical fiber is mainly	used to				*
	(1) to protect the fiber from mechan	ical stress	ses			
	(2) to protect the fiber from corrosic					. 5
	(3) to protect the fiber from mechan		gth			
	(4) to protect the fiber from electron					

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CHEMISTRY

76.	The	valency electro	nic co	nfiguration of I	Phospho	orous atom (At.)	No. 15) is			
		$3s^2 3p^3$		3s1 3p3 3d1		3s2 3p2 3d1		$3s^1 3p^2 3d^2$			
77.	And	element 'A' of A	t.No.12	2 combines with	h an ele	ment 'B' of At.N	0.17.7	The compound formed is			
	(1)	covalent AB	(2)	ionic AB ₂	(3)	covalent AB ₂	(4)	ionic AB			
78.	The	number of neut	rons p	resent in the ato	om of se	Ba ¹³⁷ is					
	(1)	56	(2)	137	(3)	193	(4)	81			
79.	Hyd	Hydrogen bonding in water molecule is responsible for									
	(1)	decrease in its	freezi	ng point	(2)	increase in its	degree	e of ionization			
	(3)	increase in its	boiling	point	(4)	decrease in its boiling point					
		National Control of the Control of t						TM .			
80.	In th	e HCl molecule	the bo	onding between	hydro	gen and chlorine	is	•			
		purely covalen				p <mark>olar c</mark> ovalent		complex coordinate			
81.	Pota	ssium metal and	d potas	sium ions							
		both react with			(2)	have the same	numbe	er of protons			
		both react with				have the same electronic configuration					
82.	stand	dard flask. 10 ml	of this	solution were p	ipetted or		lask ar oride	made upto 100 ml in a nd made up with distilled solution now is 0.25 M			
83.	Con	centration of a	.0 M s	olution of phos	sphoric	acid in water is					
	(1)	0.33 N	(2)	1.0 N	(3)	2.0 N	(4)	3.0 N			
84.	Whi	ch of the follow	ing is a	Lewis acid?				*			
		Ammonia	-		(2)	Berylium chlor	ide				
	(3)	Boron trifluori	ide		(4)	Magnesium ox					
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85.	Which of the following constitutes the com-	ponen	nts of a buffer solution?
05.	(1) Potassium chloride and potassium hyd	droxid	e
	(2) Sodium acetate and acetic acid		
	(3) Magnesium sulphate and sulphuric aci	id	
	(4) Calcium chloride and calcium acetate	:	20
86.	Which of the following is an electrolyte?		
17.00	(1) Acetic acid (2) Glucose		Urea (4) Pyridine
87.	Calculate the Standard emf of the cell, Co E^0 Cu/Cu ⁺² = (-) 0.34 V.		$\frac{1}{Cu^{+2}}$ Cu given that E ⁰ Cd/Cd ⁺² = 0.44V and
	(1) $(-)$ 1.0 V (2) 1.0 V	(3)	(-) 0.78 V (4) 0.78 V
00	A colution of nickel chloride was electroly	sed us	sing Platinum electrodes. After electrolysis,
88.	(1) nickel will be deposited on the anode	(2)	Cl. gas will be liberated at the cathode
	(1) nickel will be deposited on the anode	(4)	nickel will be deposited on the cathode
	(3) H ₂ gas will be liberated at the anode		
89.	Which of the following metals will underg	o oxid	lation fastest?
07.	(1) Cu (2) Li	(3)	Zinc (4) Iron
	Which of the following cannot be used for	the st	erilization of drinking water?
90.		(2)	Calcium Oxychloride
	(1) Ozone	(4)	
	(3) Potassium Chloride	(+)	Cinorine was
91.	A water sample showed it to contain 1.20 i	mg/litr	re of magnesium sulphate. Then, its hardness in
	terms of calcium carbonate equivalent is		(4) 2.40
	(1) 1.0 ppm (2) 1.20 ppm	(3)	0.60 ppm (4) 2.40 ppm
92	Soda used in the L-S process for softening	g of wa	ater is, Chemically.
12.	(1) sodium bicarbonate	(2)	sodium carbonate decahydrate
	(3) sodium carbonate	(4)	sodium hydroxide (40%)
	(3) Sodiali Caroonate	. ,	2 D
93	The process of cementation with zinc pow	vder is	known as
,,,	(1) sherardizing (2) zincing	(3)	metal cladding (4) electroplating
			77

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94.	Car	rosion of a metal is fastest in			8
	(1)	rain-water (2) acidulated wa	ter (3)	distilled water (4)	de-ionised water
95.	Wh	ich of the following is a thermoset po	lymer?		
	(1)	Polystyrene	(2)	PVC	
	(3)	Polythene	(4)	Urea-formaldehyde	resin
96.	Che	emically, neoprene is			9 30
	(1)	polyvinyl benzene	(2)	polyacetylene	
	(3)	polychloroprene	(4)	poly-1,3-butadiene	
97.	Vulc	canization involves heating of raw rubb	er with	1	
	(1)	selenium element		elemental sulphur	TM
. 2	(3)	a mixture of Se and elemental sulphu			m and sulphur dioxide
98.	Petr	ol largely contains			
	(1)	a mixture of unsaturated hydrocarbo	ns C,-	C ₈ .	
	(2)	a mixture of benzene, toluene and xy	lene		
	(3)	a mixture of saturated hydrocarbons	C ₁₂ - C	14	X 8 1
	(4)	a mixture of saturated hydrocarbons	C ₆ - C ₈		
99.	Whi	ch of the following gases is largely re-	sponsil	ole for acid-rain?	g ti e
	(1)	SO ₂ & NO ₂	(2)	CO, & water vapour	
	(3)	CO ₂ & N ₂	(4)	N ₂ & CO ₂	n 10
100.	BOD	Stands for		Pa	
	(1)	Biogenetic Oxygen Demand	(2)	Biometric Oxygen D	emand
	(3)	Biological Oxygen Demand	(4)	Biospecific Oxygen	Demand
					4 19 12 12 12 12 12 12 12 12 12 12 12 12 12

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101	. Wh	ich of the follow	ing is	the first integ	rated lo	gic family?		100	
	(1)	ECL	(2)	TTL	(3) RIL	(4)) MOS	
102	. Wh	at is the approxi	nate w	orst-case nois	se margi	n in TTL logic	c circuit?		
		400 mV		1 V	(3		(4)		
103	. Wh	ich of the follow	ing is t	he fastest into	egrated !	logic family?			
	(1)	ECL		TTL.	(3)		(4)	CMOS	
104	. Who	en is that the NA	ND log	gic gate can fu	nction a	s a NOT logic	c gate?		
	(1)	One input is se			(2)			e o no	
	(3)	Inputs are left of	open		(4)	Inputs are co	onnected	together	
105.	Wha gate	nt logic function i	s produ	iced when an	inverter	is added to eac	ch input a	and the output of	an AND
	(1)	NAND	(2)	XOR	(3)	OR	(4)	NOR	
106.	Wha	nt is the simplifie	d form	of the given	Boolear	expression: (X + Y +	XY)(X+Z)?	
		X+Y+Z		XY+YZ		X + YZ		XZ+Y	
107.	Give	the effective co	mbinat	tion for a Mas	ster slav	e flip-flop:			
	(1)	An SR flip-flop			B	An SR flip-f	lop and a	T flip-flop	
	(3)	A T flip-flop an	daDf	lip-flop	(4)			•	
108.	How	many flip-flops	are rec	uired to divid	le the in	nut frequency	by 64?		
	(1)		(2)		(3)		(4)	7	
109.	Whic	ch is the first mic	croproc	essor introdu	ced by t	he Intel Corp	oration?		
		2002	(2)			8008	*	8080	
110.	The 8	3086 microproce	essor ha	as a	bit	data bus and	a	bit address bu	ıs.
				8, 16		16, 16	(4)	16, 20	
:					17-A				(CSE)

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111. 80	086 has a	b	ytes queue.				9	
) 4	(2)	9	(3)	8	(4)	16	
112. Th	ne registers which	n are u	sed for the add	dress ca	alculations in	based in	ndexed addressing	mode
(1)) BP&SI	(2)	BP & DI	(3)	BX & SI	(4)	BX/BP & SI/DI	*
113. W	hich of the follow	ving ins	struction is use	d for ur	nconditional ju	ımp?		17211
(1)		(2)	JUMP		JZ		GO	
114. Ho	ow is the impleme	entatio	n of the contro	l sectio	n of Intel 808	6 micror	processor done?	
.(1)) Using micropro	ogram	ming		II or inter coc	o meréb	Hocessor done:	
(2)								
(3)		_		ming a	nd Hard-wired	d designs	•	
(4)		red con	trol in a randor	n mann	ier	1 design	TM	
115 Цо				=-		0		
	w many condition						×	
(1)	6	(2)	8	(3)	10	(4)	16	
16. Wh	at address instruc	ctions a	re used by a St	ack?				
(1)			One	(3)	Two	. (4)	Three	
17. Wh	ich is the address	ing mo	de where the o	perand	is specified w	ithin the	instruction?	•
(1)	Direct		Indirect	(3)	Immediate	(4)	Register	
18. EDI	RAM indicates						¥	
(1)	Extended DRAN	м	<u> </u>	(2)	Enhanced DR	ANA		
	Electronic DRA			120	Electrical DR			
	a		10		ð.			
	ich of the followin		hes better with	DMA	I/O?			
(1)	High Speed RAM	М		(2)	Printer	e i	*	
(3)	ALU		P 8	(4)	Disk			

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120.	Whic	ch of the followi	ng is r	not a form of mer	nory	?			
	(1)	Translation lool			(2)	Instruction ope	code		129
	(3)	Instruction cach	ne		(4)	Instruction reg	gister		0.40
121.	Whic			n advantage of vi	irtual	memory?			
	(1)	Processes can b							
	(2)	Programs large	r than	the physical men	nory s	size can be run			
	(3)	Faster access to	mem	ory on an averag	e		d		•
	(4)	Linker can assig	n addre	esses independent	of who	ere the program w	ill be lo	aded in physic	cal memory.
ungraar	22120			1		- interloging?			
122.				n advantage of m	lemoi	y interfacing:			
	(1)	A large memor							
	(2)	A non-volalite						TM	
	(3)	The cost of the		7.27					(4
	(4)	Effective speed	1 OI th	e memory is incr	Casco			- 2	
123.	Whi	ch of the followi	ng dev	vices should be g	iven l	nigher priority in	n assign	ning interrup	ts?
. 20.	(1)	Printer		Floppy disk	(3)	Keyboard	(4)	Hard disk	1
124.		address	sing m	ode permits relo	cation	without any ch	nange to	o the code.	
7.77000	(1)	Base register	Ü	•	(2)	Indexed regist			H
	(3)	Relative			(4)	Indirect		9	히 히
	37 57					12			
125.	Betv	ween what compo	onents	of a Computer de	oes ar	I/O processor c	ontrol t	the flow of in	formation?
	(1)	I/O devices and			(2)	I/O devices an	d Main	memory	
	(3)	Two I/O device	s		(4)	Main memory	and Ca	ache memory	y
126.	Wha	at 'C' command	which	is used to free th	e allo	cated memory?			
		Dispose		Free		Deallocate	(4)	Refresh	
		V 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	100		50.50				
127.	. In or	rder to realize dy ch header file sh	namic	memory allocati e included?	on by	using functions	like m	alloc, calloc	and realloc,
		string.h	(2)		(3)	stdio.h	(4)	stdlib.h	
					19-A		25		(CSE)

				*				Set Code	eT.
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12	8. W	nat does 'stderr'	in C lan	guage stands	for?				
	(1)	Standard erro	or stream	ıs	(2)	Standard erro	r types		
	(3)	Standard erro	or defini	tions	(4)			# 0	
								52	
12		at is the output	of the fo	llowing 'C' co	ode?				7.1
	mai	in()							
		{	16					404	
		static char						100	
		char * b =		The Control of the Co					
		printf("\n9	%d %d",	sizeof(a), size	of(b));	12			
	- 10 20:00	}							
	(1)	a = 7, b = 2	(2)	a = 2, b = 7	(3)	a = 7, b = 6	(4)	a = 7, b = 8	
130	. Wha	at is the purpose	rewind	() function in (79				
	(1)	file pointer re				ne file			
	(2)	file pointer re				io ine		TIVI	
	(3)	file pointer re				e line			
	(4)	file pointer re		_				**************************************	
								12	
131	. The	total number of	nodes in	n a binary tree	with 'r	n' leaves is	0		
	(1)			2n	(3)	2n-1	(4)	2n-2	
132	A tre	e is special cas	e of a or	anh which co	oniata o			c .	4
152	(1)		(2)					of cycles.	
	(1)		(2)	L	(3)	2	(4)	more than 2	
133.	A he	ap allows a ver	v efficie	nt implementa	tion of	î a		19	
		Stack	(2) (Priority queue	(4)	Tree	
	` ′	**	(-)	((5)	Thomas queue	(+)	nec	
134.	If the	postorder trav	ersing of	f a tree results	in C F	EDBJIHGA	A; then	the preorder tra	aversal
			(2)	ABCDEEGHII	(3)	ABCDEFHGIJ	(4)	ARCDEECHI	
	. ,		(-)	_ CDLA GIIIS	(3)	· BCDEFIOD,	(+)	ADCDI EUIII	
				9 9	20-A				(007)
					-/·				(CSE)

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135	Whi	ch data structure	allow	s deletion at bot	h ends	of the list but	insertio	on at only one end?
	(1)	Input-restricted			(2)		cted dec	que
	(3)	Priority queue			(4)	Circular queu	ie .	
136		layer is	not p	resent in the TC	P/IP re	eference mode	el.	
	(1)	Transport	(2)	Session	(3)	Internet	(4)	Application
137.		is the P	rotoco	ol Data Unit (PD	U) us	ed at the netwo	ork laye	r of the OSI model.
	(1)	114	(2)	Frame	(3)	Packet	(4)	Bits
138.	Whi	ch layer in the C	SI ref	erence model ta	kes th	e responsibilit	y of flow	w control?
		Application lay			(2)	Transport lay	er	
		Network layer			(4)	Session layer	r	250 12
139.	the j	are the packets over WA	N.	es that operate a		Switches		SI model for forwarding Routers
140	W/h	at does SMTP sta	and for	r?				
140.	(1)			ansfer protocol	(2)	Standard ma	il transf	er protocol
	(3)	Simple mail tr			(4)	Simple mess	sage trai	nsfer protocol
141.	Idei 110	ntity the class of 00110.0111000	the IP 0.000	address given in)			
	(1)	Α	(2)	В	(3)	C	(4)	D
142	Wh	ich of the follow	ing st	atement is typica	ally FA	LSE about Etl	hernets?	
	(1)	Fthernets use	circui	t switching to se	nd me	ssages		
	(2)	Ethernets are	sed in	providing phys	ical ad	dress		
	(3)	Ethernet protoc	ols use	a collision-detecti	on met	hod to ensure th	at messa	ges are transmitted properly.
	(4)	Networks con	nected	by Ethernets ar	re limit	ted in length to	a few h	nundred meters.
					21-A			(CSE)

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143.		acts as security	buffer between a	comp	any's private netw	vork a	nd all external i	networks.
	(1)	Firewall		(2)				
	(3)	Disaster recovery p	lan	(4)	Virus checker			¥ 8
144.	Hov	w many bytes are used	by the Class 'B'	IP add	lresses to represe	nt the	Host and Netw	ork IDs?
			2,3		2,2		3,1	
145.		protocol is	used for remote	login	purpose.			
	(1)			(3)		(4)	SMTP	
146.	Wha	at is meant by a Proce	ss?		2			
	(1)	A program written in	n high level langu	iage ai	nd stored on the di	isk		
	(2)	A program is execut					TM	12:
	(3)	A job stored in the s	econdary memor	y				
	(4)							
								277
147.	A co	mputer system canno	ot boot if the	00 00	is not available	on it.		
	(1)	Loader		(2)	Linker			
	(3)	Interpreter		(4)	Operating Syste	m	. 6	
		4						
148.	Wha	t is the use of Job Con	ntrol Language (.	ICL) s	tatements?		12	
	(1)	Allocate the CPU to						
	(2)	Read the input from	one device to an	other o	levice			
	(3)	Inform the OS, the s	tart and end of a j	ob in a	abatch			
	(4)	For managing the mo	emory					6
149.	Whi	ch strategy allows the	processes that ar	re logi	cally runnable to	be ter	nporarily suspe	ended?
	(1)	Shortest Job First	•	(2)	First come First			
	(3)	Non-preemptive sch	eduling	(4)	Round Robin			

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150.		algorit	hm ex	ecutes the short	rtest job	first that has er	ntered t	he que	eue of job	s.
		FIFO		SJF	(3)	Round Robin		(4)	LIFO	
	г	mentation of th	a fila r	victom can he t	emnora	rily avoided by				15
151.		Thrashing	e me s	ystem can be i		CPU schedulii				
	(1) (3)	Compaction		0	200	I/O devices sc		g		9
	(3)	Compaction			(- /			_		
152.	Wha	it is a page fault								
	(1)	An error that o	occurs	while a progra	m acces	ses a page in the	e memo	ry		
	(2)	and the same of the same				ilable in the me	mory	B)		
	(3)				ogram		*			
	(4)	An error which	h is pa	ge specific	7.1			-		
153.	Bela	dy's Anomaly i	s a beh	aviour of	pa	ge replacement	algorit	hm.		
		Optimal		LRU		Circular FIFO		FIFO	r\/I	
154.	Wha	at is the special :	softwa	re used to crea				1 20		
	(1)	Device driver	(2)	Spooler	(3)	Linker	(4)	Load	ler	
155.	Whi	ch of the follow	ing de	vices has the h	ighest a	ccess time?				
	(1)	Floppy Disk	Ü	*	(2)	Cache memor	у			
	(3)	****	lemory		(4)	Main memory	•			
156.	Rela	ational database	is a gr	oup of						
	(1)	Fields	(2)	Records	(3)	Tables	(4)	Pack	ages	
						4				
157.	The	best way to clas	ssify th	ne data models	is by th	e degree of		<u></u> .		
	(1)	difficulty	(2)	abstraction	(3)	knowledge	(4)	unifi	cation	
				*					6)	- 2 - 1
158.	Hier	rarchical databa	se is n	ot efficient wh	en hand	ling				
	(1)	security			(2)	large amounts				
	(3)	large number	of tran	sactions	(4)	1:M relations	hips			¥
					. 12 1	21		7		(CS
	(1) Hier (1)	difficulty rarchical databa security	(2) se is n	abstraction ot efficient wh	(3) en hand (2)	knowledge ling large amounts	of data		cation	(

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. Wh	ich of the fol	lowing is	a Date functi	on in SOI	.?			
				(2)		3		
(3)	SYSTEM_I	DATE		(4)				
. Wh	at needs to be	created are work	if Kishan is we	orking wi	th an employ	ee table a	nd wants to fi	nd out how
(1)	Create a ne	w table		(2)	Create a ne	w query		
(3)	Create a ne	w form		(4)	Utilize the	database	wizard	
. A n	ormal form	which is	sufficient fo	r the con	sideration of	f a relati	onal database	e design is
(1)	BCNF	(2)	5 NF	(3)	4 NF	(4)	3 NF	
Whi	ich of the foll	owing ty	pe of JOIN is	not used i	in SQL?			
(1)	Inner join			(3)	Equi-join	(4)		oin
Abb	reviate SQL:	1	1.	i e	Do	0		
(1)	Systematic (Query La	nguage	(2)	Structured (uery Lar	iguage	
(3)	Structural Q	uery Lan	guage	(4)	Simple Que	ry Langua	age	
Wha	it is the comm	and used	in SQL to rer	nove row	(s) from a giv	ven table	?	
(1)	DELETE	(2)	DROP	(3)	ERASE			*
Whe	re is the 'HA	VING' cl	ause of SOL u	sed for au	erving?			0
				-	, .			
(2)	Used for col	umns rat	her than rows		20 80 80			
(3)	Used for gro	ups rath	er than rows					
(4)	Used for row	vs rather	than groups					
If du	plicate rows a	re to be a	voided in the q	ueried out	put using a S	ELECT s	tatement, wha	t qualifier
(1)	DEFINITE	(2)	DISTINCT	(3).	DISJOINT	(4)	UNIQUE	
			*	24-A	6.5			(CSE)
	(1) (3) Wh man (1) (3) A n (1) Whi (1) (3) Wha (1) Wha (1) (2) (3) (4) If dup shoules	(1) SYSDATE (3) SYSTEM I (3) SYSTEM I (4) What needs to be many employees (1) Create a need (3) Create a need (3) Create a need (4) Expensive SQL: (1) BCNF (1) BCNF Which of the following the second (3) Structural Q What is the commod (1) DELETE Where is the 'HAN' (1) Used for row (2) Used for cold (3) Used for row (4) Used for row (5) Used for row (6) Used for row (7) Used for row (8) Used for row (9) Used for row (1) Us	(1) SYSDATE (3) SYSTEM DATE 1. What needs to be created many employees are work (1) Create a new table (3) Create a new form 1. A normal form which is (1) BCNF (2) 1. Which of the following ty (1) Inner join (2) 1. Abbreviate SQL: (1) Systematic Query Lan (3) Structural Query Lan (4) Used for rows rather (5) Used for columns rat (6) Used for groups rather (7) Used for rows rather (8) Used for rows rather (9) Used for rows rather (1) Used for rows rather (2) Used for rows rather (3) Used for rows rather	(1) SYSDATE (3) SYSTEM_DATE 2. What needs to be created if Kishan is we many employees are working in India? (1) Create a new table (3) Create a new form A normal form which is sufficient form. (1) BCNF (2) 5 NF Which of the following type of JOIN is (1) Inner join (2) Outer join Abbreviate SQL: (1) Systematic Query Language (3) Structural Query Language (3) Structural Query Language What is the command used in SQL to rerect (1) DELETE (2) DROP Where is the 'HAVING' clause of SQL ured (1) Used for rows rather than columns (2) Used for columns rather than rows (3) Used for groups rather than rows (4) Used for rows rather than groups If duplicate rows are to be avoided in the question of the should be used	(1) SYSDATE (2) (3) SYSTEM DATE (4) What needs to be created if Kishan is working with many employees are working in India? (1) Create a new table (2) (3) Create a new form (4) A normal form which is sufficient for the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the following type of JOIN is not used in the condition of the cond	(3) SYSTEM_DATE (4) CURRENT 1. What needs to be created if Kishan is working with an employ many employees are working in India? (1) Create a new table (2) Create a new (3) Create a new form (4) Utilize the consideration of (4) (1) BCNF (2) 5 NF (3) 4 NF (2) Which of the following type of JOIN is not used in SQL? (1) Inner join (2) Outer join (3) Equi-join (3) Structural Query Language (4) Simple Query Language (4) Simple Query Language (5) DELETE (2) DROP (3) ERASE Where is the 'HAVING' clause of SQL used for querying? (1) Used for rows rather than columns (2) Used for columns rather than rows (3) Used for groups rather than groups If duplicate rows are to be avoided in the queried output using a Should be used (1) DEFINITE (2) DISTINCT (3) DISJOINT	(1) SYSDATE (2) SYS_DATE (3) SYSTEM_DATE (4) CURRENT_DATE What needs to be created if Kishan is working with an employee table a many employees are working in India? (1) Create a new table (2) Create a new query (3) Create a new form (4) Utilize the database of the consideration of a relative form the consideration of a relative form the following type of JOIN is not used in SQL? (1) Inner join (2) Outer join (3) Equi-join (4) Abbreviate SQL: (1) Systematic Query Language (3) Structural Query Language (4) Simple Query Language What is the command used in SQL to remove row(s) from a given table (1) DELETE (2) DROP (3) ERASE (4) Where is the 'HAVING' clause of SQL used for querying? (1) Used for rows rather than columns (2) Used for groups rather than rows (3) Used for groups rather than rows (4) Used for rows rather than groups If duplicate rows are to be avoided in the queried output using a SELECT should be used (1) DEFINITE (2) DISTINCT (3) DISJOINT (4)	(1) SYSDATE (2) SYS_DATE (3) SYSTEM_DATE (4) CURRENT_DATE What needs to be created if Kishan is working with an employee table and wants to fi many employees are working in India? (1) Create a new table (2) Create a new query (3) Create a new form (4) Utilize the database wizard A normal form which is sufficient for the consideration of a relational database (1) BCNF (2) 5 NF (3) 4 NF (4) 3 NF Which of the following type of JOIN is not used in SQL? (1) Inner join (2) Outer join (3) Equi-join (4) Non Equi-join Abbreviate SQL: (1) Systematic Query Language (3) Structural Query Language (4) Simple Query Language What is the command used in SQL to remove row(s) from a given table? (1) DELETE (2) DROP (3) ERASE (4) REMOVE Where is the 'HAVING' clause of SQL used for querying? (1) Used for rows rather than columns (2) Used for groups rather than rows (3) Used for groups rather than rows (4) Used for rows are to be avoided in the queried output using a SELECT statement, wha should be used (1) DEFINITE (2) DISTINCT (3) DISJOINT (4) UNIQUE

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167.		ect one equivale	100		77	50	= 'HYD':		
	(1) (2)	SELECTEM	P_NAM	E FROM EMPLO	PLOYE	WHERE PL	ACE IN ('HYD');	
	(3) (4)	•	_	E IN EMPLO				');	
168.	In S	QL what com	mand is t	used to get sort	ted outp	ut of a given o	luery	6	
	(1)	GROUPBY	(2)	ORDER BY	(3)	SORTBY	(4)	ARRANGEBY	7
169.	Mul	ti-valued depe	ndencies	s should	be	e eliminated.			
	(1)	Never	(2)	Rarely	(3)	Always	(4)	Frequency	
170.		OP statement in	The state of the s					TM .	
		DML stateme			IU		ent (4)	TCL statement	
1/1.		storage Dynamic					(4)	Mutable	
	(-)	Dynamic	(-)				, ,		
172.		feature	is not a	t all supported	by the	C++ compile	r.		
	(1)	Operate over	loading	e 13	(2)	Exception ha	_		
	(3)	Reflection	¥3		(4)	Namespaces			
173.		keywo	rd suppo	orts dynamic n	nethod r	esolution in C	C++.		
	(1)	Abstract			(2)	Virtual			
	(3)	Dynamic			(4)	Typeid			
174.	Whi	ch of the follo	wing sho	ould be used to	access	an array elem	ent in C+	-+?	
	(1)	Dot operator			(2)	Member nan			
	(3)	An index num			(4)	Function nar	ne		
				ŭ	25-A				(CSE)

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175. W	at is meant by o	perato	r overloading	in C++?				
(1)	It is creating i	new op	erations					
(2)	It is creating a	new fu	nctions .					2 3
(3)	It is giving ne	w mea	nings to exist	ting C++	operators			20
(4)	It is loading n							
176. W	nat is meant by C	C++ pu	re virtual fun	ction?				
(1)	A function wh			cuon.				
(2)	A function wh							
(3)	A function wh				228			
(4)	A function wh				400			1. 14,
. ,				Pidir				
177. In C	++ what does re	edirect	ion perform.	2.7				
(1)	It redirects a f		-	a stream			TM	
(2)	It redirects a s	tream	from a file to	a conso	le 📗	9	•	
(3)	It redirects a							
(4)	It redirects the			-				
178 To v	vhich class of st	ream d	loes 'cout' ob	iect in C	t + helong to?			
(1)	stringstream	(2)	istream	(3)		(4)	ifotroom	
(1)	sangsacan	(2)	isucani	(3)	Osucam	(4)	ifstream	
179. Whi	ch of the follow	ing is	used by an ol	bject to re	efer to itself?			
(1)	this	(2)	itself	(3)	self	(4)	own	
180. In C	++ when no acc	cess sp	ecifier is exp	olicitly m	entioned for th	e base	class,	is the
	ult inheritance t							
(1)	Public	(2)	Private .	(3)	Internal	(4)	Protected	
181. In C	++, name mang	ling is	used to suppo	ort the fe	ature called		- 2	e e
	Overloading				Data Hiding	(4)	Abstraction	
	2 /			26-A				(CSE)

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82	Whi	ch of the following	operator	s in C++	cannot	be overload	led?			
.02.	(1)	Assignment		=	(2)			==		
	(3)	Scope resolution		::	(4)		-	->		
183.		cannot be	declare	d as a te	mplate i	n C++			94	
	(1)	Classes	3		(2)		unctions			
	(3)	Global functions			(4)	Macros	9	81		
184.	Whi	ch of the following I	nheritar	nce mech	nanisms	is not suppo	rted in Ja	iva		
	(1)	Single level			(2)	Multiple le	evel			
	(3)	Multi level ·			(4)	All the abo	ove			
185	If cl	ass X is friend of clas	s V and	if class \	Y is frien	d of class Z	, which o	f the follow	ing is correct?	
100.	(1)	class X is friend of class Y and if class Y is friend of class Z, which of the following is con Class X is friend of Class Z								
	(2)	Class Z is friend of	10.0							
	(3)									
	(4)	Class Y is a mutual friend to Class X and Class Y								
			135			77				
186.	Wha	at is the output of the	followi	ng given	Java co	de:				
	public class Ecet {									
		<pre>public static void main (string[] args) {</pre>								
		new Ecet().go("hello", 1);								
		new Ecet().go("hell	o", "wo	rd", 2);				15		
		}								
		public void go (string y, int x) {								
		System.out.print(y[y.length - 1] + " ");							(4)	
		}		· .	5 2					
*		}								
	(1)	h he (2) hello	world	(3)	world wor	ld (4)) compila	tion fails	
		3			9.5					
						2		# P	(CCC	
					27-A				(CSE	

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- 187. Which one of the following statements is TRUE?
 - (1) At once, more than two threads may possibly end up in deadlock.
 - (2) The JVM implementation guarantees that multiple threads cannot enter into a deadlocked state.
 - (3) Deadlocked threads release once their sleep() method's sleep duration has expired.
 - (4) Deadlocking can occur only when the wait(), notify(), and notifyAll() methods are used incorrectly.
- 188. Fill up the blank with one of the following statements for the given Java code which allows Ecet class to compile:

```
class Navigation{
public enum Direction {North, South, East, West}
}
public class Ecet{
```

(1) Direction d = North;

hig lea

- (2) Navigation.Direction d = Navigation.Direction.North;
- (3) Direction d = Direction. North;
- (4) Navigation.Direction d = North;
- 189. What is the output of the given Java code below?

```
interface TestA { String to String();}
public class Test {
public static void main (String[] args) {
   System.out.println(new TestA() {
   public String to String() { return "test";}
});
}
```

- (1) test
- (2) null
- (3) An exception is thrown at runtime
- (4) Compilation fails because of an error in line 1

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190. Given the following Java code, _____ can directly access and change the value of the
     variable name?
          package exam;
          class Ecet {
          public String name = "hello";
          }
                                                (2) only the Ecet class
     (1) any class
                                               (4) any class that extends Ecet
          any class in the exam package
     (3)
191. What is the output of the following Java code?
          public class EcetString1 {
          public static void main(String[] args) {
          String str = "420";
          str+=42;
          System.out.print(str);
                                                                             TIM
     (1) 42
192. Given the following Java code below, what is the output?
           int a = 0;
           int b = 10;
           do {
           b--;
           ++a;
           } while (a<5);
           symtem.out.print(+a "," +b);
      (1) 5,6
                           (2) 5,5
193. What is a Web Browser?
      (1) A compiler which compiles high level language programs
      (2) A compiler which compiles low level language programs
    (3) An interpreter which helps to view and navigate through web pages
      (4) A loader program which connects to the operating system
                                                                                            (CSE)
                                               29-A
```

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194.	Wh	ich of the follo	owing is	not a Web Bro	wer?					
	(1)	Mozilla Fire			(2)	Apple Safari		4		
	(3)	Google Chro			(4)	You Tube				
	. ,	•			. ,					
195.	Whi	ich protocol is	used to	connect to Inte	ernet?					
	(1)	НТТР	(2)	FTP	(3)	ICMP	(4)	IP .		
196.	Whi	ich HTML tag	is used f	for indicating lo	ong quot	tations?	79	30		
	(1)	title	(2)	blockquote	(3)	label	(4)	style		
107	W/h	ah af tha falla	wing et	tamente is cor	rect abo	ut VPScript?				
197.	Which of the following statements is correct about VBScript? (1) It is an application-specific programming language like LISP									
	(1)		•		uning ta	inguage like Lie) I			
	(2)									
	(3)	It is not a Web Browser firendly language								
	(4)	It is not an ac	ctive scri	pting language	=			TM		
100	3371.	-LAZD		<i>y.</i>		Colo Colombia	20060	no string within another		
198.		the end of the			positio	n of the occurrer	ice of C	ne string within another,		
		InStr	(2)	String	(3)	InStrRev	(4)	StrComp		
100	W/b;	ch of the follo	wing is	an ASP object?				9 5		
199.			,			ProvincerCon	(1)	Content Linking		
12	(1)	AdRotator	(2)	Server	(3)	BrowserCap	(4)	Content Linking		
200.	Whi	ch of the follo	wing is a	an ASP compor	nent?	5		* .		
	(1)	Response	(2)	Request	(3)	Application	(4)	Content Rotator		