	SET CODE: T2
HALL TICKET NO.	BOOKLET SL. NO. 505030
NAME OF THE CANDIDATE	BOOKLET CODE: B
SIGNATURE OF THE CANDIDATE	INVIGILATOR'S SIGNATURE

(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 BALL POINT PEN (BLUE/BLACK) ONLY ON
 THE OMR RESPONSE SHEET. DO NOT WRITE HALL TICKET NUMBER ANY WHERE ELSE.
- Immediately on opening this Question Paper Booklet, eheck:
 - (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.
- Use of Calculators, Mathematical Tables and Log books is not permitted.
- 4. 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 Ball Point Pen (Blue/Black) 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 Ball Point Pen (Blue/Black) only. Candidate should note that their OMR Response Sheet will be invalidated if the eircles against the question are shaded using pencil or if more than one circle is shaded against any question.
- 7. One mark will be awarded for every correct answer. There are no negative marks.
- 8. 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.
- 9. Rough work should be done only in the space provided in the Question Paper Booklet.
- 10. 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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SPACE FOR ROUGH WORK

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Note: (1) Answer all questions.

Each question carries 1 mark. There are no negative marks.

Answer to the questions must be entered only on OMR Response Sheet provided separately by completely shading with Ball Point Pen (Blue/Black), only one of the circles 1, 2, 3 or 4 provided against each question, and which is most appropriate to the question.

The OMR Response Sheet will be invalidated if the circle is shaded using pencil or if more than

one circle is shaded against each question.

MATHEMATICS

1.
$$\int \left(\frac{x+2}{x+1}\right) dx =$$

(1)
$$x \log (x+1) + c$$

(2)
$$x \log (x+1) + 2 \log (x+1) + c$$

(4) $\frac{1}{z} \log (x+1) + c$

(3)
$$x + \log(x+1) + c$$

$$(4) \quad \frac{1}{x} \log(x+1) + \alpha$$

$$2. \qquad \int \frac{x^2}{\sqrt{1+x^6}} \, dx =$$

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

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

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

(4)
$$\frac{1}{3}\sin h^{-1}(x^3) + c$$

3.
$$\int 8x^3 e^{2x} dx =$$

3.
$$\int 8x^3 e^{2x} dx =$$
(1)
$$(4x^3 - 6x^2 + 6x - 3) e^{2x} + c$$

(2)
$$4x^3 + 6x^2 + 6x + 3e^{2x} + c$$

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

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

4.
$$\lim_{n\to\infty} \left[\frac{1}{n} + \frac{1}{n+1} + \frac{1}{n+2} + \dots + \frac{1}{3n} \right] =$$

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

(2)
$$\frac{\pi}{4}$$

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5.
$$\int_0^{\frac{\pi}{2}} \frac{\sqrt{\sin x}}{\sqrt{\cos x} + \sqrt{\sin x}} dx =$$

- $(1) \quad \frac{\pi}{2} \qquad \qquad (2) \quad \frac{\pi}{4}$
- (3) 0
- The area of the region in the first quadrant enclosed by x-axis, y-axis, y = 3x-2 and y = 4 is 6.
 - (1) 16

- 7. The root mean square (RMS) value of $\log x$ over the range x = 1 to x = e is

- The differential equation formed by eliminating the arbitrary constants a and b in the relation $y = a \cos(nx+b)$ is
 - (1) $\frac{d^2y}{dx^2} + n^2y = 0$

 $(3) \quad \frac{dy}{dx} + ny = 0$

 $(4) \quad \frac{d^2y}{dx^2} - y = 0$

- The solution of $\frac{dy}{dx} = e^{x-y}$ 9.

- The solution of the differential equation $\tan x \frac{dy}{dx} + y = \sec x$ is
 - (1) $v \sin x x = c$

 $(2) \quad y \cot x + x = c$

(3) $y = \tan x + c$

y. $\csc x = x + c$

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The solution of the linear third order equation $\frac{d^3y}{dx^3} - 7\frac{d^2y}{dx^2} + 16\frac{dy}{dx} - 12y = 0$ is

(1)
$$y = c_1 e^{3x} + c_2 e^x + c_3 e^{4x}$$

(2)
$$y = c_1 e^{3x} + c_2 x e^x + c_3 e^{4x}$$

(4) $y = c_1 e^{3x} + (c_2 + c_3 x) e^{2x}$

(1)
$$y = c_1 e^{3x} + c_2 e^x + c_3 e^{4x}$$

(3) $y = c_1 e^{2x} + c_2 x e^{3x} + c_3 e^{4x}$

(4)
$$y = c_1 e^{3x} + (c_2 + c_3 x) e^{2x}$$

12. If $y_1 = e^x$ and $y_2 = e^{-x}$ are two solutions of the homogeneous differential equation; then

- (1) $y_3 = e^{2x}$ and $y_4 = e^{-2x}$ are also solutions of the equation
- $y_3 = xe^x$ and $y_4 = xe^{-x}$ are also solutions of the equation
- (3) $y_3 = \cosh x$ and $y_4 = \sinh x$ are also solutions of the equation
- $y_3 = \cos x$ and $y_4 = \sin x$ are also solutions of the equation

The particular integral (P.I) of the equation $(D^2+D-6)y = 5e^{2x} + 6$ is

(1)
$$xe^{2x}-1$$

(2)
$$e^{2x} + 1$$

(3)
$$5xe^{2x} + 1$$

$$(4) e^{2x} -$$

The particular integral of $(D^2+16)y = 8 \cos 4x$ is

$$(1)$$
 cos $4x$

$$(2)$$
 $x \sin 4x$

(3)
$$-\frac{1}{4}\sin 4x$$

$$(4) \quad -\frac{1}{4}\cos 4x$$

15. If $A = \begin{bmatrix} 2 & 4 & 3 \\ 1 & 0 & 2 \\ -3 & 5 & 1 \end{bmatrix}$ then,

(1)
$$A = A^T$$

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16. If
$$A = \begin{bmatrix} 2 & 5 & 3 \\ 3 & 1 & 2 \\ 1 & 2 & 1 \end{bmatrix}$$
 then

- The minors of first row elements are respectively -3, -1, 5
- The cofactors of second row elements respectively are 1,-1,1
- The cofactors of first row elements respectively are -3, -1, -5
- The minors of second row elements respectively are 7, 5, -13
- If A, B, C are non singular matrices of order 3 then
 - (1) $A(BC) \neq (AB)^{\circ}C$

 $(2) \quad (ABC)^T = A^T B^T C^T$

(3) $(ABC)^{-1} = C^{-1} B^{-1} A^{-1}$

(4) $(ABC)^{-1} = 1/(ABC)$

18. If
$$\begin{bmatrix} 3 & 2 \\ 2 & -3 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 4 \\ 7 \end{bmatrix}$$
, then

(1) x = -1, y = 4

(3) x = 4, y = -1

(2) x = 2, y = -1(4) x = -1, y = 2

19. If w is the cube root of unity then
$$\begin{bmatrix} 1 & w & w^2 \\ w & w^2 & 1 \end{bmatrix} = \begin{bmatrix} w^2 & 1 & w \end{bmatrix}$$

- (1) 0

20. If
$$\frac{x^2 + 13x + 15}{(2x+3)(x+3)^2} = \frac{A}{2x+3} + \frac{B}{x+3} + \frac{C}{(x+3)^2}$$
 then C =

- (4)

21. If
$$\frac{2x+1}{(x^2+1)(x-1)} = \frac{Ax+B}{x^2+1} + \frac{C}{x-1}$$
 then $A =$

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- 22. Which of the following statement is TRUE
 - (A) The period of $\sin x$ is π and the period of cosec x is 2π
 - (B) The period of $\cos x$ is 2π and the period of $\sec x$ is 2π
 - (C) The period of $\tan x$ is 2π and the period of $\cot x$ is π
 - (D) The period of cosec x is π and the period of sec x is 3π
 - (1) A
- (2) B
- (3) C
- (4) I

- 23. The range of $3\cos\theta 4\sin\theta$ is
 - (1) [-1, 1]
- (2) [0,4]
- (3) [-5,5]
- (4) [-4,0]

- 24. If $A+B=45^{\circ}$, then $(1+\tan A)(1+\tan B)=$
 - (1) 0
- (2) 1
- $(3) \frac{1}{2}$
- (4) 2

- 25. $\left(\frac{\sin 2A}{1-\cos 2A}\right) \left(\frac{1-\cos A}{\cos A}\right) =$
 - (1) $\tan \frac{A}{2}$
- (2) $\cos \frac{A}{2}$
- (3) $\sec \frac{A}{2}$
- (4) cosec $\frac{A}{2}$

- 26. The value of $\frac{\sin 70^{\circ} \cos 40^{\circ}}{\cos 50^{\circ} \sin 20^{\circ}}$
 - (1) 1

- $(2) \quad \frac{1}{\sqrt{2}}$
- $(3) \quad \frac{1}{\sqrt{3}}$
- (4) 0
- 27. $4 \sin \frac{11\theta}{2} \cos \frac{11}{2}\theta \cos 5\theta$ expressed as sum or difference is
 - (1) $\sin 15 \theta \sin 6 \theta$

(2) $\sin 16 \theta + \sin 6 \theta$

(3) $\sin 11 \theta + \sin 8 \theta$

- (4) $\sin 11 \theta \sin 8 \theta$
- 28. If $2\cos^2\theta + 11\sin\theta = 7$, the principal value of θ is
 - (1) 60°
- (2) 459
- (3) 30°
- (4) $22\frac{1}{2}$

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Which one of the following equation is FALSE

(1) $\cos^{-1}(-x) = \pi - \cos^{-1} x$

(2) $\sin^{-1}(-x) = \pi - \sin^{-1} x$

(3) If $-1 \le x \le 1$, then $\cos^{-1}x + \sin^{-1}x = \frac{\pi}{2}$ (4) $\sin^{-1}x \ne \frac{1}{\sin x}$

In any triangle ABC, Σ (b+c) cos A =

- (1) a+b+c
- (2) 2(a+b+c)
- 3(a+b+c)(3)

With the usual notation, in a triangle ABC

 $s \left| \frac{r_1 - r}{a} + \frac{r_2 - r}{b} + \frac{r_3 - r}{c} \right| =$

- (1) $2(r_1+r_2+r_3)$ (2) $3(r_1+r_2+r_3)$

The modulus amplitude form of $-\sqrt{3} + i$ is

- (1) $2 \operatorname{cis} \frac{5\pi}{6}$ (2) $2 \operatorname{cis} \frac{3\pi}{6}$
- (3) $2 \operatorname{cis} \frac{\pi}{2}$ (4) $2 \operatorname{cis} \frac{\pi}{2}$

33. If $x = \cos\theta + i\sin\theta$, then the value of $x^6 + \left(\frac{1}{x^6}\right)$

- (1) 0
- $2 i \sin 6 \theta$
- (3) $2\cos 6\theta$
- $2(\cos 6 \theta + \sin 6 \theta)$

34. The most general second degree equation $ax^2+2hxy+by^2+2gx+2fy+c=0$ represents a circle if

(1) a+b=0, h=0

(2) a-b=0, h=0

(3) $a-b=0, h \neq 0$

(4) $a+b \neq 0, h \neq 0$

The equation of the circle whose radius is $\sqrt{(a^2-b^2)}$ and whose center is (-a, -b) is

- (1) $x^2+y^2+2ax+2by+2a^2=0$
- (2) $x^2+y^2-2ax+2(a^2+b^2)=0$
- (3) $x^2+y^2+2ax+2by+2(a^2-b^2)=0$
- (4) $x^2+y^2+2ax+2bx+2b^2=0$

The coordinates of the parabola $y^2 = 18x$ such that the ordinate equals to three times of the abscissa is

- (1) (3, 9)
- (2, 6)
- (3) (1,3)
- (162, 54)

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- With respect to the ellipse $5x^2+7y^2=11$, the point (4,-3)
 - Is a focus (1)

- (2) lies with in the ellipse
- lies outside the ellipse (3)
- lies on the ellipse
- For the Hyperbola $4x^2-9y^2=36$, the coordinates of the foci are
 - (1) $(\pm\sqrt{13},0)$ (2) $(\pm\sqrt{31},0)$ (3) $(\pm6,0)$ (4) $(0,\pm6)$

- Which of the following statements are FALSE
 - The equation of the tangent at the point (x', y') of the circle $x^2 + y^2 = a^2$ is $xx' + yy' = a^2$
 - The eccentricity of a parabola is unity
 - The eccentricity of an ellipse is greater than unity
 - The eccentricity of a hyperbola is less than unity
 - A, B
- (3) B, C

- 40. $\lim_{x \to \infty} \frac{3^{x+1} + 4}{3^{x+2} + 4} =$
 - (1) 1
- (3) $\frac{3}{4}$ (4) $\frac{1}{3}$
- 41. Derivative of $\cos^{-1}\left(\frac{1-x^2}{1+x^2}\right)$ with reference to x is
 - (1) $\frac{2}{1+x^2}$ (2) $\frac{1}{1-x^2}$
- (3) 2x
- $(4) \quad \sqrt{1+x^2}$

- 42. If $y = x^{3x}$, (x > 0) then $\frac{dy}{dx} =$
- (3) $3y(1+\log x)$ (4) $\frac{3y}{\log x}$

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43. If
$$x^{\frac{2}{3}} + y^{\frac{2}{3}} = a^{\frac{2}{3}}$$
 then $\frac{dy}{dx} =$

$$(1) \quad \left(\frac{x}{y}\right)^{\frac{1}{3}}$$

$$(1) \quad \left(\frac{x}{y}\right)^{\frac{1}{3}} \qquad (2) \quad -\left(\frac{y}{x}\right)^{\frac{1}{3}} \qquad (3) \quad -\left(\frac{x}{y}\right)^{\frac{1}{3}}$$

(3)
$$-\left(\frac{x}{y}\right)^{\frac{1}{3}}$$

$$(4) \quad \left(\frac{y}{x}\right)^{\frac{1}{3}}$$

- The derivative of $\log \sec x$ with respect to $\tan x$ is
 - (1) $\sec x \cdot \tan x$
 - (2) $\cos x \cdot \cot x$
- (3) $\cos x \cdot \sin x$
- (4) $\sec x \cdot \cot x$
- The coordinates of the point P(x, y) on the curve of $y = x^2 4x + 5$ such that the tangent at P is parallel to y = 2x+4 are
 - (1) (3, 2)
- (2) (1, 2)
- (4) (5,4)

- The function $f(x) = x \log^2 x$ has
 - (2) Maximum value occurs when x = e(1) Maximum value occurs when x = -
 - (3) Maximum value occurs when $x = e^{-2}$ (4) Maximum value occurs when $x = e^2$
- In a cube the percentage increase in side is 2 units. The percentage increases in the volume of the cube is
 - (1) 3

- 16

- 48. The curves $x = y^2$ and xy = m cut at right angle if
 - (1) m = 0
- (2) $m^2 = 8$
- (3) $8m^2 = 1$ (4) m = -1
- 49. If $u = e^{ax} \sin by$, then
 - (1) $(a^2-b^2)u$ (2) a^2+b^2
- (3) $(a^2+b^2)u$ (4) (a+b)u

$$50. \quad \int \frac{\cos \sqrt{x}}{\sqrt{x}} dx =$$

(1)
$$\sqrt{x} \sin \sqrt{x} + c$$
 (2) $2 \sin \sqrt{x} + c$ (3) $\sqrt{\cos x} + c$ (4) $\frac{\sin \sqrt{x}}{\sqrt{x}} + c$

$$(4) \quad \frac{\sin\sqrt{x}}{\sqrt{x}} + c$$

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			P	HYSIC	S				
51.	In th	nermodynamics	dQ = 0 and $dU = -d$	W is true	for				
	(1)	Isothermal pr	0 32	(2)	Adiabatic pro	cess			
	(3)	Isochoric pro		(4)	Isobaric proc	-			
52.			l gas has volume V, prede density of the gas is		and temperatu	re T. Th	e mass of each molecu	le	
	(1)	P/kVT	(2) mkT	(3)	mP/kT	(4)	P/kT		
53.		as does 4.5 J of rnal energy wil	27.	g adiabat	ic expansion.	Its temp	erature falls by 2 K. I	ts	
	(1)	increase by 4	.5 J	(2)	increase by 9	.0 J			
	(3)	decrease by 4	.5 J	(4)	decrease by 2	2.25 J			
54.		mole of an ide	al gas ($\gamma = 5/3$) is mix	ed with o	ne mole of dia	tomic g	as (γ=7/5). The value of	f	
	(1)	3/2	(2) 4/3	(3)	23/15	(4)	35/23		
55.	In a given process on an ideal gas, dW = 0 and dQ < 0. Then for the gas								
			re will decrease		70	-			
	(3)	170	vill remain constant	(4)	the temperati				
56.	The threshold wavelength for a metal whose work function is W_0 is λ_0 . The threshold wavelength for a metal whose work function is $W_0/2$								
	(1)	$\lambda_0/4$	(2) $\lambda_0/2$	(3)	$4\lambda_0$	(4)	$2\lambda_0$		
57.	The	propagation of	light through an opti	cal fiber	goes by the pr	inciple			
	(1)	Refraction		(2)	Total internal		ion		
	(3)	Interference		(4)	Diffraction		1.6		
58.	The	dimensions of	angular momentum a	re			40.		
31	(1)	MLT-1	(2) ML ⁻¹ T	(3)	ML ^o T ⁻²	(4)	ML ² T ⁻¹		
59.	The	SI unit of univ	ersal gas constant R is	S		71			
1.	(1)	Newton K-1 n	nol-I	(2)	Joule K ⁻¹ mo	l-1			
4	(3)	Watt K-1 mol	-1	(4)	erg K-1 mol-1				

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60.	The	magnitude of t	he result	ant of (A	+B) and	d (<i>A–E</i>	3) is		6		
00.	(1)						$\sqrt{\left(A^2+B^2\right)}$				
	(3)	2 <i>B</i>					$\sqrt{\left(A^2-B^2\right)}$				
	(3)	20				7.7	V ()	17	The same		
61.	Give	en A.B = 0 and	$A \times C = 0$, the ang	le betwe	een B	and C is				
	(1)	135°	(2)	90°		(3)	180°	(4)	45°		
62.	A pr	ojectile has a n	naximun	range o	f 200m	. The r	naximum he	eight attair	ed by	it is	
	(1)	75 m				(2)	100 m	-			
	(3)	25 m				(4)	50 m				
63.	A bl	ock of mass M	is lying o	on a horiz	zontal fr	iction	less surface.	One end o	f a rop	e mass m is f	ixed
	to th	e block and a f	orce F is	applied a	at the fre	ee end	parallel to the	ne surface.	The f	orce acting or	n the
		k will be	1								
	(1)	FM/(M-m)			4	(2)	Fm/(M+m))			
	(3)	FM/(M+m)				(4)	F				
64	A b	lock of weight	200 N is	pulled al	ong a ro	ugh h	orizontal sur	face at a c	onstan	t speed by a f	orce
×	of 1	00 N acting at	an angle	of 30°. T	he coef	ficien	t of friction	between th	ne bloc	k and the sur	face
	is										
	- 100 Aug.	0.58	(2)	0.75	1	(3)	0.45	(4)	0.65		
65.	A b	oy wants to clin	nb down	a rope. T	he rope	can w	ithstand a ma	aximum ter	nsion e	equal to two-tl	hirds
00.	the	weight of the	boy. If g	is the a	ccelerat	ion d	ue to gravity	, the mini	mum	acceleration	with
	whi	ich the boy sho	uld clim	b down t	he rope	is					
	100000	g/3		2g/3		(3)	3g/2	(4)	g		
66.	Nh	ullets each of	mass m k	g are fir	ed with	a velo	ocity v m/s.	at the rate	of n b	ullets per sec	cond,
00.	unc	on a wall. The r	eaction o	offered b	v the w	all to t	he bullets is	given by			
	(1)	nNv/m			3 1000 000	(2)	nNmv				
	(3)					(4)	nNm/v				
67	۸.	machine gun fi	irec a hu	llet of m	acc 40	o with	h a velocity	of 1200 r	n/s. Tl	he man holdi	ing it
67.	car	exert a maxi	mum fo	rce of l	44 N o	n the	gun. The n	umber of	bullet	s he can fire	e*per
		ond is	744	- Z		(2)	2	(4)	Q		
	(1)	4	(2)	1		(3)	3	(4)	8		
			80,0			12-B	*:				

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68.	A horizontal force F pulls a 20 kg box at a co	nstant	speed along a h	orizonta	l floor. If the coefficient
	of friction between the box and the floor is	0.25. T	he work done b	y the fo	rce F in moving the box
	through a distance of 2 m				
	(1) 49 J	(2)	147 J	A STATE OF THE PARTY OF THE PAR	
	(3) 196 J	(4)	98 J		Joseph Committee of the
69.	A uniform rod of mass m and length l is mad	de to st	and vertically	n one er	nd. The potential energy
	of the rod in this position is				
	(1) $mgl/4$ (2) $mgl/2$	(3)	mgl	(4)	mgl/3
70.	If momentum is increased by 20%, then ki	inetic	energy increase	es by	
	(1) 44% (2) 77%	(3)	55%	(4)	66%
71.	A particle is executing linear SHM of ample the fraction of kinetic energy is	itude	A. When the dis	placem	ent is half the amplitude
	(1) 1/5 (2) 3/4	(3)	1/2	(4)	1/4
72.	For a particle executing S.H.M starting from	om equ	ilibrium positi	on the p	hase is $\frac{\pi}{2}$ when it has
	(1) maximum displacement	(2)	maximum en	ergy	
	(3) half the displacement	(4)	maximum ve	locity	
73.	A particle executes SHM between $x = -A$	and x =	+A. The time t	aken for	r it to go from 0 to A/2 is
,	T, and to go from A/2 to A is T ₂ . Then				
	(1) $T_1 = 2 T_2$	(2)	$T_1 = T_2$		
	(3) $T_1 < T_2$		$T_{1} > T_{2}$		
74.	Two sounds of wavelengths 5 m and 6 m,	travel	ling in a mediu	m prodi	uce 10 beats per second.
	The speed of sound in the medium				
	(1) 300 m/s (2) 320 m/s	(3)	350 m/s	(4)	1200 m/s
75.	그림 전시 사람들이 아니라 그는 그 그래요. 그 아니는 아이들이 아니는 아이들이 아이들이 아이들이 되었다. 그리고 없는 그 그리고 없는 그 그리고 없는 그 그리고 없는 그 그리고 없는 그리고 없는 그 그리고 없는 그리고 있는 그리		of sound with a	velocity	one tenth the velocity of
	sound. The apparent increase in frequency	У		2011	1.007
	(1) 3% (2) 0.1%	(3)	5%	(4)	10%

Set Code:	T2

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CHEMISTRY

6.	Glas	ss is corroded by		
	(1)	Fluorine (dry or wet)	(2)	Sulphuric acid (concentrated)
	(3)	Phosphoric acid	(4)	Carbonic acid
7.	The	most resistant material to alkaline cor	rosion	is
	(1)	Cast iron	(2)	Nickel
	(3)	Aluminium	(4)	Brass
8.	The	monomer of polyvinyl chloride is		
	(1)	Chloro ethene	(2)	Ethylene dichloride
	(3)	Ethyl chloride	(4)	Chloroform
9.	Poly	thene is		
	(1)	An addition polymerization product	(2)	A condensation polymerization product
	(3)	Thermosetting	(4)	Polymer of amylopectin
0.	Tefle	on is		
	(1)	Phenol formaldehyde	(2)	An inorganic polymer
	(3)	Poly tetrafluoroethylene	(4)	A monomer
1.	Wate	er gas constitutes mainly of		
	(1)	CO and H,	(2)	CO and N ₂
	(3)	CO ₂ and H ₂	(4)	CH ₄ and H ₂
2.	The	lightest particle is		
	(1)	Positron	(2)	Neutron
	(3)	Proton	(4)	α-particle
3.		electron has spin quantum number of +	·1/2 an	d magnetic quantum number of -1, it cannot be
	(1)	d orbital (2) f orbital	(3)	p orbital (4) s orbital
	1			

(1) NO ⁺ (2) O ₂ ⁺ (3) O ₂ ⁻ (4) N ₂ ⁺ 85. The hydrogen bond is strongest in (1) O-HS (2) S-HO (3) F-HF (4) F-HO 86. The molecule having pyramidal shape (1) PCl ₃ (2) SO ₃ (3) CO ₃ ²⁻ (4) NO ₃ ⁻									Set Code: T2
(1) NO+ (2) O₂+ (3) O₂- (4) N₂+ (3) O₂- (4) N₂+ (4) N₂+ (4) CP-HO (5) S-HO (7) S-HF (7) S-HF (8) F-HF (8) F-HF (9) S-HO (1) PCl₃ (2) SO₃ (3) CO₃²- (4) NO₃- (4) NO₃- (1) PCl₃ (2) SO₃ (3) CO₃²- (4) NO₃- (4) Monoclinic (7) Orthorhombic (2) Cubic (3) Trigonal (4) Monoclinic (7) Orthorhombic (2) Cubic (3) Trigonal (4) Monoclinic (7) S-H									Booklet Code : B
 85. The hydrogen bond is strongest in (1) O-HS (2) S-HO (3) F-HF (4) F-HO 86. The molecule having pyramidal shape (1) PCl₃ (2) SO₃ (3) CO₃²⁻ (4) NO₃⁻ 87. Crystals of a sodium chloride belong to the system (1) Orthorhombic (2) Cubic (3) Trigonal (4) Monoclinic 88. The pH of 0.05 M acetic acid is (K_a = 2×10-5) (1) 2 (2) 11 (3) 10-3 (4) 3 89. The volume in ml. of 0.1 M solution of NaOH required to completely neutralize 100 ml of 0. solution of H₃PO₃ is (1) 60 (2) 600 (3) 300 (4) 30 90. The P^{ka} values of four carboxylic acids are 4.76, 4.19, 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li*/Li, Zn*2/Zn; H*/H₂ and Ag*/Ag are -3.05, -0.0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn*2 + 2e* E° = -0.76V Fe = Fe*2 + 2e* E° = -0.44V The E.M.F. for the cell reaction Fe*2+Zn → Zn*2 + Fe will be 	84.	The	ion that is iso ele	ectron	ic with CO is				
 (1) O-HS (2) S-HO (3) F-HF (4) F-HO 86. The molecule having pyramidal shape (1) PCl₃ (2) SO₃ (3) CO₃²⁻ (4) NO₃⁻ 87. Crystals of a sodium chloride belong to the system (1) Orthorhombic (2) Cubic (3) Trigonal (4) Monoclinic 88. The pH of 0.05 M acetic acid is (K_a = 2×10⁻⁵) (1) 2 (2) 11 (3) 10⁻³ (4) 3 89. The volume in ml. of 0.1 M solution of NaOH required to completely neutralize 100 ml of 0. solution of H₃PO₃ is (1) 60 (2) 600 (3) 300 (4) 30 90. The P^{ta} values of four carboxylic acids are 4.76, 4.19, 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P^{ta} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li⁺/Li, Zn⁻²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁻² + 2e E^o = -0.76V Fe = Fe⁻² + 2e E^o = -0.74V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 		(1)	NO ⁺	(2)	0,+	(3)	O ₂ -	(4)	N ₂ ⁺
86. The molecule having pyramidal shape (1) PCl ₃ (2) SO ₃ (3) CO ₃ ²⁻ (4) NO ₃ ⁻ 87. Crystals of a sodium chloride belong to the system (1) Orthorhombic (2) Cubic (3) Trigonal (4) Monoclinic 88. The pH of 0.05 M acetic acid is (K _a = 2×10 ⁻⁵) (1) 2 (2) 11 (3) 10 ⁻³ (4) 3 89. The volume in ml. of 0.1 M solution of NaOH required to completely neutralize 100 ml of 0. solution of H ₃ PO ₃ is (1) 60 (2) 600 (3) 300 (4) 30 90. The P ^{ka} values of four carboxylic acids are 4.76, 4.19, 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P ^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li*/Li, Zn*2/Zn; H*/H ₂ and Ag*/Ag are -3.05, -0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H ₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn*2+2e E° = -0.76V Fe = Fe*2+2e E° = -0.44V The E.M.F. for the cell reaction Fe*2+Zn → Zn*2+Fe will be	85.	The	hydrogen bond is	s stroi	ngest in	75/20/		19.00	
 (1) PCl₃ (2) SO₃ (3) CO₃²⁻ (4) NO₃⁻ 87. Crystals of a sodium chloride belong to the system (1) Orthorhombic (2) Cubic (3) Trigonal (4) Monoclinic 88. The pH of 0.05 M acetic acid is (K_a = 2×10⁻⁵) (1) 2 (2) 11 (3) 10⁻³ (4) 3 89. The volume in ml. of 0.1 M solution of NaOH required to completely neutralize 100 ml of 0. solution of H₃PO₃ is (1) 60 (2) 600 (3) 300 (4) 30 90. The P^{ka} values of four carboxylic acids are 4.76, 4.19, 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li⁺/Li, Zn⁺²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e⁻ E^o = -0.76V Fe = Fe⁺² + 2e⁻ E^o = -0.44V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 		(1)	O-HS	(2)	S-HO	(3)	F-HF	(4)	F-HO
 (1) PCl₃ (2) SO₃ (3) CO₃²⁻ (4) NO₃⁻ 87. Crystals of a sodium chloride belong to the system (1) Orthorhombic (2) Cubic (3) Trigonal (4) Monoclinic 88. The pH of 0.05 M acetic acid is (K_a = 2×10⁻⁵) (1) 2 (2) 11 (3) 10⁻³ (4) 3 89. The volume in ml. of 0.1 M solution of NaOH required to completely neutralize 100 ml of 0. solution of H₃PO₃ is (1) 60 (2) 600 (3) 300 (4) 30 90. The P^{ka} values of four carboxylic acids are 4.76, 4.19, 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li⁺/Li, Zn⁺²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e⁻ E^o = -0.76V Fe = Fe⁺² + 2e⁻ E^o = -0.44V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 	86.	The	molecule having	pyran	nidal shape	-2.5			
 (1) Orthorhombic (2) Cubic (3) Trigonal (4) Monoclinic 88. The pH of 0.05 M acetic acid is (K_a = 2×10⁻⁵) (1) 2 (2) 11 (3) 10⁻³ (4) 3 89. The volume in ml. of 0.1 M solution of NaOH required to completely neutralize 100 ml of 0. solution of H₃PO₃ is (1) 60 (2) 600 (3) 300 (4) 30 90. The P^{ka} values of four carboxylic acids are 4.76, 4.19, 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li⁺/Li, Zn⁺²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.0000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e E° = -0.76V Fe = Fe⁺² + 2e E° = -0.44V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 		(1)	PCl ₃	(2)	1.5	(3)	CO ₃ ²⁻	(4)	NO ₃
 (1) Orthorhombic (2) Cubic (3) Trigonal (4) Monoclinic 88. The pH of 0.05 M acetic acid is (K_a = 2×10⁻⁵) (1) 2 (2) 11 (3) 10⁻³ (4) 3 89. The volume in ml. of 0.1 M solution of NaOH required to completely neutralize 100 ml of 0. solution of H₃PO₃ is (1) 60 (2) 600 (3) 300 (4) 30 90. The P^{ka} values of four carboxylic acids are 4.76, 4.19, 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li⁺/Li, Zn⁺²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.0000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e E° = -0.76V Fe = Fe⁺² + 2e E° = -0.44V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 	87.	Crys	stals of a sodium	chlor	ide belong to th	e syste	m 💮		
 (1) 2 (2) 11 (3) 10⁻³ (4) 3 89. The volume in ml. of 0.1 M solution of NaOH required to completely neutralize 100 ml of 0. solution of H₃PO₃ is (1) 60 (2) 600 (3) 300 (4) 30 90. The P^{ka} values of four carboxylic acids are 4.76, 4.19, 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li⁺/Li, Zn⁺²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e E° = -0.76V Fe = Fe⁺² + 2e⁻ E° = -0.44V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 		(1)			7.11 (11.10)			(4)	Monoclinic
 (1) 2 (2) 11 (3) 10⁻³ (4) 3 89. The volume in ml. of 0.1 M solution of NaOH required to completely neutralize 100 ml of 0. solution of H₃PO₃ is (1) 60 (2) 600 (3) 300 (4) 30 90. The P^{ka} values of four carboxylic acids are 4.76, 4.19, 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li⁺/Li, Zn⁺²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e E° = -0.76V Fe = Fe⁺² + 2e⁻ E° = -0.44V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 	88.	The	pH of 0.05 M ac	etic a	cid is $(K_a = 2 \times 1)$	0-5)	The same of the sa		
solution of H_3PO_3 is (1) 60 (2) 600 (3) 300 (4) 30 90. The P^{ka} values of four carboxylic acids are 4.76 , 4.19 , 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li^+/Li , Zn^{+2}/Zn ; H^+/H_2 and Ag^+/Ag are -3.05 , -0.000 and $+0.80$ V respectively. Which is the strongest reducing agent? (1) Ag (2) H_2 (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are $Zn = Zn^{+2} + 2e^-E^- = -0.76V$ $Fe = Fe^{+2} + 2e^-E^- = -0.44V$ The $E.M.F.$ for the cell reaction $Fe^{+2}+Zn \rightarrow Zn^{+2}+Fe$ will be	5.5						10-3	(4)	3
 (1) 60 (2) 600 (3) 300 (4) 30 (4) 30 (5) The P^{ka} values of four carboxylic acids are 4.76, 4.19, 0.23 and 3.41 respectively. The strong carboxylic acid among them is the one having P^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 (5) If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 (4) The standard reduction potential for Li⁺/Li, Zn⁺²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li (4) Li (5) The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e⁻ E° = -0.76V (6) Fe = Fe⁺² + 2e⁻ E° = -0.44V (7) The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 	89.				1 solution of Na	OH req	uired to complet	ely ne	utralize 100 ml of 0.3 M
carboxylic acid among them is the one having P ^{ka} value of (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 91. If pH value of a solution is 8, then its pOH value will be (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li ⁺ /Li, Zn ⁺² /Zn; H ⁺ /H ₂ and Ag ⁺ /Ag are -3.05, -0.0000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H ₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn ⁺² + 2e ⁻ E ^o = -0.76 V Fe = Fe ⁺² + 2e ⁻ E ^o = -0.44 V The E.M.F. for the cell reaction Fe ⁺² +Zn → Zn ⁺² + Fe will be			m (5)		600	(3)	300	(4)	30
 (1) 4.19 (2) 3.41 (3) 0.23 (4) 4.76 (5) 1 (6) 1 (7) 1 (8) 1 (9) 1 (1) 7 (1) 1 (2) 1 (3) 6 (4) 10 (4) 10 (5) 2 (6) 3 (7) 4 (8) 4 (9) 4 (1) 4 (1) 4 (2) 4 (3) 5 (4) 4 (4) 4 (5) 4 (6) 4 (7) 4 (8) 4 (9) 4 (1) 4 (1) 4 (2) 4 (3) 5 (4) 4 (5) 4 (6) 4 (7) 4 (8) 4 (9) 4 (1) 4 (1) 4 (1) 4 (1) 4 (1) 4 (2) 4 (3) 5 (4) 4 (4) 4 (5) 4 (6) 4 (7) 4 (8) 4 (9) 4 (1) 4 (9) 4 (1) 4 (9) 4 (1) 4 (2) 4 (3) 2 (4) 4 (4) 10 (4) 4 (4) 4	90.	The	Pka values of fou	ir cart	oxylic acids are	4.76, 4	4.19, 0.23 and 3.	41 res	spectively. The stronges
 (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li⁺/Li, Zn⁺²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e⁻ E° = -0.76V Fe = Fe⁺² + 2e⁻ E° = -0.44V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 				100				(4)	4.76
 (1) 7 (2) 1 (3) 6 (4) 10 92. The standard reduction potential for Li⁺/Li, Zn⁺²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e⁻ E° = -0.76V Fe = Fe⁺² + 2e⁻ E° = -0.44V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 	0.1				O then its nOU	valva	will be		
 92. The standard reduction potential for Li⁺/Li, Zn⁺²/Zn; H⁺/H₂ and Ag⁺/Ag are -3.05, -0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e⁻ E⁻ = -0.76 V Fe = Fe⁺² + 2e⁻ E⁻ = -0.44 V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 	91.			40		5.50 (6)	1,24	(4)	10
 0.000 and +0.80 V respectively. Which is the strongest reducing agent? (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e⁻ E° = -0.76 V Fe = Fe⁺² + 2e⁻ E° = -0.44 V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 		(1)		()		(-)			
 (1) Ag (2) H₂ (3) Zn (4) Li 93. The standard reduction potential for the following half-cell reactions are Zn = Zn⁺² + 2e⁻ E° = -0.76V Fe = Fe⁺² + 2e⁻ E° = -0.44V The E.M.F. for the cell reaction Fe⁺²+Zn → Zn⁺² + Fe will be 	92.								
$Zn = Zn^{+2} + 2e^{-}E^{\circ} = -0.76V$ $Fe = Fe^{+2} + 2e^{-}E^{\circ} = -0.44V$ The E.M.F. for the cell reaction $Fe^{+2} + Zn \rightarrow Zn^{+2} + Fe$ will be		CONTRACTOR .	100	VEU -		(3)) (<u> </u>	(4)	Li
$Zn = Zn^{+2} + 2e^{-}E^{\circ} = -0.76V$ $Fe = Fe^{+2} + 2e^{-}E^{\circ} = -0.44V$ The E.M.F. for the cell reaction $Fe^{+2} + Zn \rightarrow Zn^{+2} + Fe$ will be	93	The	e standard reduct	ion po	otential for the fo	ollowin	ng half-cell reac	tions a	ire
The E.M.F. for the cell reaction $Fe^{+2}+Zn \rightarrow Zn^{+2}+Fe$ will be	,,,,					DATAMORALOS			
(1) -0.32 V (2) $+0.32 \text{ V}$ (3) $+1.20 \text{ V}$ (4) -1.20 V		The	A Comment of the Comm	4.11100046.000				(4)	1.20 V
		(1)	-0.32 V	(2)	+0.32 V	(3)	+1.20 V	(4)	-1.20 V

Set Code:

				Booklet Code : B
94.	In sa	lt bridge, KCl is used because		
	(1)	KCl is present in calomel elect	rode	
	(2)	K ⁺ and Cl ⁻ ions are not iso elec		
	(3)	K ⁺ and Cl ⁻ ions have the same tr		ber
	(4)	KCl is an electrolyte	unoportnun	
	(7)	Itel is all electrony to		
95.	The	metal that cannot be obtained by	electrolysis	of aqueous solution of its salt is
	(1)	Ag (2) Au	The second second	Cu (4) Al
	18741-570			
96.	BOI	O of raw municipal sewage may b	e about	
	(1)	2-5 mg/lit	(2)	5-10 mg/lit
	(3)	150-300 mg/lit	(4)	2000-3000 mg/lit
		The second of th		
97.	The	pH value of potable water should	be between	
	(1)	1 to 1.5	(2)	6.5 to 8
	(3)	13 to 14	(4)	4 to 5
98.	Dea	eration of high pressure boiler fe	ed water is	done to reduce
	(1)	Foaming from boilers		Its dissolved oxygen content
	(3)	Its silica content	(4)	Caustic embrittlement
	` '			
99.	Pres	sence of non-biodegradable subs	stances like	alkyl benzene sulphonate from detergents in
		uted water stream causes		
	(1)	Fire hazards	(2)	Explosion hazards
	(3)	Persistent foam	(4)	Depletion of dissolved oxygen
100	. Pres	sence of soluble organics in pollu	uted water ca	auses
	(1)	Undesirable plants growth	(2)	Depletion of oxygen
	(3)	Fire hazards	(4)	Explosion hazards
	U.T.C.L.(17)			
			1 7	

Set Code:

(CSE)

Booklet Code :

		COMPU	TER SCIENC	CE AN	D ENGINE	ERING	
01.	Oper	rator is used to compa	re a value to a lis	st of lit	erals value that	have been spec	ified
	(1)	BETWEEN		(2)	ANY		
	(3)	IN		(4)	ALL	10	
102.	In E	-R Diagram relationsh	ip type is repres	ented b	y		
	(1)	Ellipse		(2)	Dashed ellipse		
	(3)	Rectangle		(4)	Diamond		727
103.		lation in which the int	ersection of eacl	h row a	nd column con	tains one and or	nly one value is
	(1)	First normal form		(2)	Second norma	al form	
	(3)	Third normal form		(4)	Fourth norma	l form	
104.	Two	phase protocol in a da	tabase managen	nent is			
	(1)	A concurrency mech	anism that is no	t deadl	ock free		*
	(2)	A recovery protocol	used for restorir	ng a da	tabase after a ci	rash	
	(3)	Any update to the sy	stem log done in	two pl	nases		
	(4)	Not effective in data	base				
105.	Wh	ich of the following is	not a type of co	nstruct	or?		
	(1)	Copy constructor		. (2)	Friend constr	uctor	
	(3)	Default constructor		(4)	Parameterize	d constructor	
106.	Wh	ich of the following co	oncepts says, me	thod in	voking at runtii	me?	
	(1)	Data hiding		(2)	Dynamic Typi	ng	
	(3)	Dynamic binding		(4)	Dynamic load	ling	
107.	. Wh	ich one of the followin	ng are standard s	stream	objects		
	(1)	PIPE (2)	SYS	(3)	ERROR	(4) BUFF	

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								S	et Code : T2
								Bookl	et Code : B
108.	How	many objects car	be created	l from an at	ostrac	et class?		6	
	(1)	Zero			(2)	One			
	(3)	Two			(4)	As many as we	want		
109.	Whi	ch of the followin	g will be ca	alled when	an ol	ject goes out of	scope	2	
	(1)	Constructor	- m = 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -		(2)	Destructor			
	(3)	Main			(4)	Virtual function	n		
110.	Whi	ch of the followin	g function/	type of fur	ction	a cannot be over	loaded	?	
	(1)	Member function	n		(2)	Static function	l.		
	(3)	Virtual function			(4)	Operator funct	ion		
111.		ch of the followir			1		150	5	
	(1)	Two functions has overloaded if bo		101		The state of the s	1/5/3	pe of a	argument can be
	(2)	Overloaded fund	tion must h	ave default	argu	ments.			
	(3)	Overloaded fund	ction must l	nave defaul	t arg	uments starting	from th	e left (of argument list
	(4)	A function can b	e overload	ed more tha	n on	ce	134		
112	The	operator that can	ot be over	loaded is:					
	(1)	+ +	(2)		(3)	* *	(4)	~	
113	If yo	ou create a file by	'fstream', t	hen the def	ault 1	node of the file	is:		
	(1)	ios :: app			(2)	ios :: out			
	(3)	ios :: app & ios	out		(4)	ios:: in & ios	:: out		
114	Who	en you derive a cla	ss privatel	y, a protect	ed ba	se class membe	r becoi	nes	
	(1)	Private	(2) Publ	50Y = 50V	(3)	Not inherited		(4)	Protected
115	Whi	ich will legally de	clare const	ruct and in	itiali	ze an arrav?			
113	(1)	int[] my List = {			(2)	int [] myList =	- (5.8	2):	
	(3)	int myList [] [] =		. 2442	(4)	int myList [] =		5000	
	13	, 2.50 [] []	(.,,,,,,	1.7	1.7		(., -,	,,	•

Set Code: T2

				Booklet Code : B
116	Whic	ch two are valid constructors for thread	in JAV	/A?
110.	a)	Thread (Runnable r, string name)		
	b)	Thread()		
	c)	Thread (int priority)		
	d)	Thread (Runnable r, Thread Group g)		
	(1)	(a) & (c)	(2)	(b) & (d)
	(3)	(a) & (b)	(4)	(c) & (d)
117.	Whi	ch is TRUE about a method - local inn	er class	s and a second s
	(1)	it must be marked final	(2)	it can be marked abstract
	(3)	it can be marked public	(4)	it can be marked static
118	Wha	at will be the output of the program?		A TOP
	try	- 18 million (19	4	
	{			
	int x	z= 0;	1	
		y = 5/x;	A.	
	} `			
	cate	h (Exception e)		
	{			
		System. out. println ("Exception");		
	}			
	cate	h (Arithmetic Exception ae)		
	{			
		System.out. println ("Arithmetic Exc	eption'	');
	}			
	Sys	tem.out.println ("finished");		
	(1)	Finished	(2)	Exception
	(3)	Compilation fails	(4)	Arithmetic Exception
110	Civ	on a class name as 'Student' which of	the foll	owing is a valid constructor declaration for the
113	clas		uie ion	
	(1)	Student (student s) { }	(2)	Student student () { }
	(3)		(4)	Void student () {}
			19-B	(CSE)

								Booklet Code	; : [_]
120	W/L:	-L - C41 1	J :	ad to dofina no	akaaaa	in Iovo?			
120.		ch of the keywor		# 177	1000	22/21	(4)	D. W. A	
	(1)	pkg	(2)	Pkg	(3)	package	(4)	Package	
121.	Whi	ch of the access	speci	fier can be used	as an i	nterface?			
	(1)	Public	(2)	Protected	(3)	Private	(4)	Default	
122.	Wha	t is multithreade	d prog	gramming?					
	(1)	It's a process in		· · · · · · · · · · · · · · · · · · ·	t proces	ses run simu	Itaneous	ly.	3
	76	It's a process in							
	(3)	It's a process in							ation.
	(4)	It's a process in				The state of the s			
	(+)	it's a process in	WILL	n a single proc	Coo cuii	decess inter			
122	117h:	ah afthaga karn	ordo	a not nort of av	cention	handling?			
123.	22.0	ch of these keyw				1	: 745	aatah	
	(1)	try	(2)	finally	(3)	thrown	(4)	catch	
124.	Whi	ch of these meth	ods c	an be used to or	itput a s	tring in an a	pplet?		
	(1)	display ()		-	(2)	print ()			
	(3)	drawstring ()			(4)	transient ())		
125	Htm	document mus	t alwa	vs he saved wit	h ·				
123.	53/12/43	574LT00.5944	CONTRACTOR OF		(3)	.doc	(4)	.pdf	
	(1)	.html	(2)	.txt	(3)	.uoc	(+)	.pui	
126	Toi	nsert blank lines	whice	h tage are used	•				
120.			(2)	 	(3)		(4)	<ha></ha>	
	(1)	>		UK	(3)	.017	(')		
127	ЦΤ	AT stands for	K						
12/1		ML stands for:	draw la	n	(2)	Hyper tab	marker la	amiage	
	(1)	Hyper text mar			(2)			LOTSON CONTRACT	
	(3)	High transfer n	narkuj	pianguage	(4)	Hyper text	markup i	anguage	
128.	The	schedular which	dete	rmines when pr	ocesses	are to be su	spended a	nd resumed.	
	(1)	Short-term sch	edula	r	(2)	Long-term	schedula	ır	
	(3)	Medium-term	sched	ular	(4)	Job schedu	ular		
	1				4				

Set Code: T2

						: 7				Set C	do .
									11	Booklet C	ode : B
129.	Whi	ch of the fol	lowing	is n	ot a disk se	cheduling	alg	orithm.			
	(1)	SSTF			C - SCAN			SRTF	(4)	LOOK	
130.	In V	B Script fun	ctions,	whi	ch one is f	alse amon	g tl	e following	PA		<u>80</u>
	(1)	Variables n					3 10			•	
	(2)	Variables n	nay no	t be o	declared b	efore use			-		
	(3)	Variables n	nay be	decla	ared witho	ut data typ	es				
	(4)	Variables a	re usec	in V	/B script						
131.	A ru	nning progra	ım requ	iests	the servic	e from the	ke	mel of the ope	rating s	vstem using	ga .
	(1)	System cal	5. 1			(2)		Function call			
	(3)	Procedure	call			(4)		Remote call			
132.	The	leading bits	of an I	P ad	dress of a	class B ne	tw	ork are			
	(1)	10	(2)	01	(3)		110	(4)	0	
133.		tab en	ables v	ou t	o view the	current va	alm	e of any variat	ole or V	B Script ex	nression
	(1)	Watch	•			(2)		View			P
	(3)	Locate			10	(4)		Current			
134.	Wha	at does ASP s	stands	for?							
	(1)	All Standar	d Page	S	P. C.	(2)	1	Active Server	Pages		
	(3)	Active Stan	dard P	ages		(4)		A Server Page			
135	Con	vert the fract	tional	locir	nal numb	or 6 75 to 1	.i.	057			
155.	(1)	0111.1100		iccii	nai numo	(2) 1	0110.1010			
	(3)	0110.1100				(4)	0110.1010			
	(3)	0110.1100				(4)	0110.0110			
136.			gate h	as ei	ght input p	oossibilitie	es,	how many of t	hose po	ssibilities	will result in
	a HI	GH output?		40							
	(1)		((2)	2	(3)	7	(4)	8	

(CSE)

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Set Code:	T2
Booklet Code:	В

37. One	advantage TTL h	as over Ch	MOS is that TTL	is	•	ž.	4	
(1)	Less expensive		(2) No	t sensitive to e	lectr	ostatic	discharge
(3)	Faster	25	(4) Mo	re widely avai	lable		
38. Apj	lying DeMorgan	's theorem	to the expression	n AB C	we get	_		
(1)	$\overline{A} + \overline{B} + \overline{C}$		(2)	A+B	+C	(0)	7	
(3)	$A + \overline{B} + C\overline{C}$		(4)	A (B	+C)	1		1
39. Wh	ich statement belo	ow best des	scribes a Karnau	gh map?				
(1)	A Karnaugh ma	p can be us	sed to replace Bo	olean n	ules			
(2)	The Karnaugh n	nap elimin	ates the need for	using N	AND and NOI	R gat	es	
(3)	그 사용하다면 가장 가장 하는 것이 없다.	r name and the second	be eliminated b					
(4)	Karnaugh maps	provide a	cookbook appro	ach to s	implifying Boo	olean	expres	sions
40 Ho	v is a J-K flip-flo	n made to t	togale?				DE	
(1)	J=0, K=0	p made to	(2)	I=1	$\mathbf{K} = 0$			
(3)			(4)	J=1	K = 0 $K = 1$			
41 Ho	v many flip-flops	are requir	ed to make a MC	ID 32 h	inary counter?			
(1)	=	(2) 32	(3)	5	mary counter:	6		
(1)	,	(2) 32	(3)	3	(4)	U	.97 No. 200	
42. Wh	ich gate is best us	ed as a bas	ic comparator?					
(1)	NOR		(2)	OR				
(3)	Exclusive-OR		(4)	AND				
					,			
	ich segment regis				Service and a service of the service of the service of	tion	in the c	ode segme
	he memory, where		2017 '0는 10 THE CO. 프라이 DESERVED (12 전시스)					
25-25	Code segment	/	(2)					
(3)	Extra segment	register	(4)	Stack	segment regis	ster		
44. The	8086	register	contents indica	e the re	sults of compu	itatio	n in the	ALU.
(1)	Data Segment	(2) Flag		Index	ng g al gania na arawan na maka mata na maka mata na mata Mata mata na m	120	cumul	

								Set	Code: T2
								Booklet	Code : B
145.	In 8	086 al	ong v	vith	for	ms a pipeline.			
	(1)	Bus Interface U	nit, A	rithmetic and I	ogic ur	nit			
	(2)	Execution Unit,	Arith	metic and Log	ic unit			1	
	(3)	Bus Interface U	nit, M	emory unit					
	(4)	Bus Interface U	nit, E	cecution unit			1	A STATE OF THE PARTY OF THE PAR	
146.		is flag is set, the m at is that flag in 80		ole interrupts a	re recog	nized by the CPI	J, oth	erwise th	ey are ignored.
	(1)	Trap			(2)	Interrupt			
	(3)	Directional			(4)	Overflow			
147	F	.i C. 11 : :			.cc .:	4 100			
147.	411- 100015.	the following inst	ructio	on, what is the	effectiv	e address :			
	ereally.	VAX,[BX][SI]			(2)	TOLIADO - CDACI	+rom		
	(1)	10H*DS+[SI]	FOTE		(2)	10H*DS+[BX]			
	(3)	10H*DS+[BX]+		(4)	10H*[BX]+[SI]	4			
					W.			2 11	
148.		ch instruction of 8 g look up table te	197	100	ing out	the codes in case	of coo	ie conver	sion problems,
	(1)	TEST		6700	(2)	DAS			
	(3)	CBW			(4)	XLAT			
149.		conditional brancher SF nor OF is	100	truction used t	o transf	er execution to t	he ado	iress 'labe	el', if ZF = 1 or
	(1)	JNL/JGE label			(2)	JLE/JNC label			
	(3)	JL/JNGE label	0		(4)	JNLE/JE label			
150.	The	80286 CPU is at	le to	address	N	IB of physical m	emor	y.	
	(1)	16	(2)	24	(3)	32	(4)	8	
151	The	size of the addre	oo ku	of 90296 :-		hit			
131.	(1)	size of the addre	220	227411	(2)	bit.	(A)	61	
	(1)	10	(2)	24	(3)	32	(4)	04	
					23-R				(CSE)

									S	et Code :	T2
100									Bookle	t Code :	В
152.	The	80486 is package	d in a			grid a	rray package.			20	
	(1)	32-pin				(2)	48-pin				
	(3)	64-pin				(4)	168-pin				
153.	Whi	ch of the followir	ng is a	sequentia	al acces	s dev	ice	17	300		
	(1)	Hard disk		1		(2)	Optical disk				
	(3)	Tape				(4)	Flash memory				
154.	The	addressing mode	in wh	ich the op	erand i	s giv	en explicitly in	the inst	truction	it self is	
	(1)	Absolute mode		1		(2)	Index mode				
	(3)	Register Direct	mode			(4)	Immediate mo	de			
155.	Whi	ch of the followin	ng inte	errupt is no	on mas	kable			· ·		I)
	(1)	INTR	(2)	RST 7.5		(3)	RST 6.5	(4)	TRAP		
156.	Spee	ed of microproces	ssor d	epends on		7					
	(1)	Data Bus width			15	(2)	Access Time				
	(3)	Response Time		170		(4)	Hard disk				
157.	Zero	address instructi	ion fo	rmat is us	ed for						
	(1)	RISC architectu				(2)	CISC architect	ure			
	(3)	Von-Neuman ar	chitec	ture		(4)	Stack-organize		itecture		
158	The	two types of mair									
156.		Primary and sec	2.17			(2)	Dandom and a	.auanti	al		
		ROM and RAM	ondar	y		(2)	Random and se				
	(3)	KOW and KAW				(4)	Central and pe	ripnera	11		
159.	Hov chip	many address line?	nes ar	e needed	to addr	ess e	ach memory loo	cations	in a 20	48 X 4 m	nemory
	(1)	10	(2)	11		(3)	8	(4)	12		

Set Code: T2

				Booklet Code : B
160.	CISC stands for			
	(1) Co-related Instruction Set Computer			
	(2) Combined Instruction Set Computer			
	(3) Complex Instruction Set Computer			
	(4) Common Instruction Set Computer			400
161.	Fastest type of memory from the following	g list is		
	(1) Tape	(2)	Semiconductor	
	(3) Disk	(4)	Bubble memory	
e Beerton of				
162.	. The entity that is not involved in a memory	write	operation.	
	(1) MAR	(2)	Data Bus	
	(3) PC	(4)	MDR	
162	. What is the output of this C code			
103	# include <stdio. h=""></stdio.>	4		
	void main ()	25		
	int $a = -5$;			
	int $k = (a++, ++a);$			
	printf("%d\n",k);			
	}			
	(1) -3 (2) -5	(3)	4	(4) Undefined
164	What is the output of this C code			
	#include < stdio.h>		•	
	int main ()			
	int w = 2:			
	int $x = 2$;			
	x = x <<1;		\$3;	
	print $f("%d \n", x)$;			
		(0)		
	(1) 4	(2)		a andiannaca of the machine
	(3) Depends on the compiler	(4)	Depends on th	e endianness of the machine
		25-B		(CSE

Set Code :

Booklet Code : B 165. What is the output of this 'C' code? #include <stdio.h> void main () int x = 4, y, z; y = --x;z = x - -;printf ("% d% d% d", x, y, z); (2) 233 322 234 323 (4) (3) 166. Number of internal nodes in a full binary tree of height k is $2^{k} + 1$ 2^{k-1} (2) $2^k - 1$ (3) (1) (4) 167. What is the output of this 'C' code? #include <stdio.h> void main () char *s = "hello"; char *p = s;printf("%c\t %c", *(p + 3), s[1]); (3) 10 (1)(2)h e 168. What is the correct syntax to declare a function foo() which receives an array of strucuture in a function? void foo (struct *var); void foo (struct *var[]); None of the mentioned void foo(struct var); (4)169. The data structure which is called as one ended. (2) (3)(1) stack graph queue tree 170. A linear list in which each node has pointers to point to the predecessor and successors nodes is called as Singly Linked List Circular Linked List (2)Linear Linked List Doubly Linked List (4)(CSE) 26-B

						34.5		Set	Code:	T2
			Ø,					Booklet	Code:	В
171.	Preo	rder is same as							PM	
	(1)	Depth-first ord	ler		(2)	Breadth-fir	st order			
	(3)	Topological or	der		(4)	Linear orde	r			
172.	The	complexity of n	nerge s	ort algorith	m is		1	1		
	(1)	O(n)			(2)	O(log n)				100
	(3)	O(n2)			(4)	O(n log n)				
173.	Wh	ich layer of the	OSI R	eference mo	odel offers	format and c	ode con	version se	rvices	
	(1)	Physical layer			(2)	Network la	yer			
	(3)	Session layer			(4)	Presentatio	n layer			
174	The	most common U	ITP co	nnector is		FOR				
177.	(1)	BNC	(2)	RJ-45	(3)	SC	(4)	MT-RJ		
	(.)	Divo	(~)	10 10			(-)			
175.	To v	vhich class of IP	addre	sses the foll	lowing add	ress correspo	onds to			
	1100	00001 1000001	1 000	1011 1111	1411					
	(1)	Class A			(2)	Class B				
	(3)	Class C			(4)	Class D				
176.		ock of IP addres	hat are	the first ar		esses in the	block?			esses is
	(1)	205.16.37.39			(4)	205.16.37.				
	(3)	205.16.37.32	and 20	5.16.37.39	(4)	205.16.37.	32 and 2	233.10.37.	4 /	
177.	72000	E 802.3 standar	d defir	ies	as th	e access me	thod for	first gener	ation 10	0-Mbps
	(1)	CSMA/CA			(2)	Non Persis	tent CSN	/A/CD		
	(3)	1-Persistent C	SMA/	CD	(4)	p-Persisten	t CSMA	/CD		
178.	100000	protocol that auto		the IP confi	guration inc	luding IP add	dress, Sul	onet mask,	default g	gateway
	(1)	SNMP	(2)	DHCP	(3)	SMTP	(4) ARP		
					27 D					(CSF)

				53				Set Code	: T2
								Booklet Code	: B
170					0.		1 32		
179.		uses co A server.	omman	is and response	es of tra	insfer message	betwee	n an MTA clien	t and a
	(1)	POP3	(2)	CNATD	(2)	TTTTD	(4)	LALID	
	(1)	FOF5	(2)	SMTP	(3)	HTTP	(4)	FTP	
180.	In H	TTP v1.1, whi	ch requ	est type is used	to echo	the incoming r	equest	Ser la	
	(1)	GET	(2)	POST	(3)	PUT	(4)	TRACE	
181.		is the	elient/ s	erver annlicati	on that	allowe a near t	log o	n to a remote m	nahin
	77.00			ne remote syste		allows a user t	o log o	ni to a remote ii	iaciiii
	(1)	HTTP	C 00 to t	ie remote syste	(2)	SNMP			
	(3)	TELNET	7.		(4)	MIME			
	(5)				(+)	IVIIIVIL			
182.	Whi	ich LAN topole	ogy is ea	asy to install bu	t diffic	ult in reconnect	ion and	fault isolation.	
	(1)	STAR	55		(2)	BUS			
	(3)	RING			(4)	MESH			
183:	Whi	ch one of the f	ollowin	g is not a Real	time on	erating system?			
	(1)	VxWorks				Windows CE			
	(3)	RTLinux			(4)	Palm OS			
				1					
84.	To a	ccess the servi	ces of o	perating systen	n, the ir	iterface is provi	ded by	the	
	(1)	System calls	4		(2)	API			
	(3)	Library	0		(4)	Assembly inst	ruction	IS	
185.	Wha	at is a long-tern	sched	ıler?				32	
	(1)	-	VIII AV		ought i	nto the ready qu	eue '		
	(2)		A		T	next and alloca		I	
		The second secon	The second secon			mory by swapp			
	(4)	The second secon				nto the Blocked		SS	
COOK.	neutrino)	9				. La el especia de la especia	io d i montani 100		
86.	Tim	e quantum is de	fined ir						
	(1)	Shortest job s	cheduli	ng algorithm	(2)	Round robin se	cheduli	ing algorithm	
	(3)	Priority sched	luling a	lgorithm	(4)	Multilevel que	ue sch	eduling algorithi	n

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187.	The calle	ind a supplier of the property of the contract of the property of the contract of the contract of the contract of	at are logica	ally runnable to be temporarily suspen	nded is							
	(1)	Non preemptive scheduling	(2)	Preemptive scheduling								
	(3)	Shortest job first	(4)	First come first served								
188.	The	nost optimal scheduling algorith	m is:									
	(1)	FCFS - First come First served	(2)	SJF - Shortest Job First								
	(3)	RR - Round Robin	(4)	LCFS - Last Come First Serve								
189.	Cons	Consider the following set of processes, the length of the CPU burst time given in milliseconds:										
	Pro	ess Burst time										
	P1	6	6									
	P2	8										
	P3	7										
	P4	3			10							
	Assu	ming the above process being sc	heduled with	h the SJF scheduling algorithm:								
	(1)	The waiting time for process P	is 3ms.									
	(2)	The waiting time for process P	is 0ms.									
	(3)	The waiting time for process P	is 16ms.									
	(4)	The waiting time for process P	is 9ms.									
190.	Whi	c one of the following is the dead	lock avoida	nce algorithm?								
	(1)	Banker's algorithm	(2)	Round-robin algorithm	E							
	(3)	Elevator algorithm	(4)	Karn's algorithm								
191.	In fi	xed sized partition, the degree of	multiprogra	amming is bounded by	t _{el}							
	(1)	The number of partitions	(2)	The CPU utilization								
	(3)	The memory size	(4)	BOIS								
192.	repl	[2] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2		er: A, B, C, D, A,B, E, A, B, C, D, E. If the age transfers with an empty internal sto								
	(1)	(2) 10	(3)	9 (4) /								

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193.	98, Cor	sider a disk queue wi 183, 37, 122, 14, 124 sidering FCFS (first c disk head is initially a	, 65, 67 um first served) s				of head movements is, if
9	(1)	600 (2)	620	(3)	630	(4)	640
194.	On don	systems where there a	re multiple oper	ating s	ystem, the deci	sion to	load a particular one is
	(1)	Boot loader		(2)	Boot strap		
	(3)	Process control bloc	k	(4)	File control b	lock	
195.	Whi	ch of the following (abase.	Command is use	d to g	ive Permission	of ope	ration to other users in
	(1)	Permission (2)	Allow	(3)	Grant	(4)	Revoke
196.	All	of the following are ty	nes of databases	excer	11.		
	(1)	Relational	p so or dittiouses,	(2)	Relational orio	ented	
	(3)	Object oriented		(4)	Multidimensio		
197.	Whi	ch of the following is	not a DML stater	nent?			
	(1)	UPDATE (2)	COMMIT	(3)	INSERT	(4)	DELETE
198.	In th	e architecture of a dat	abase system, ex	ternal	level is the		
	(1)	Physical level		(2)	Logical level		
	(3)	Conceptual level		(4)	View level		
				3.60			
199.	The	column of a table is re	eferred to as the			250	
	(1)	Tuple		(2)	Attribute		
	(3)	Entity		(4)	Degree		
200	A nr	imary key for an entity					7.81
200.	1000000	A candidate key	18	(2)	A		
	Test 1	A unique attribute		(2)	Any attribute		
	(5)	amque attribute		(4)	A super key		

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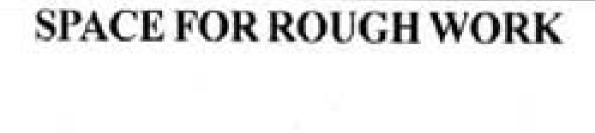
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Set Code: T2

Booklet Code : B



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(CSE)