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Mathematics

There are 50 questions in a paper. Find the number of ways in which a student can attempt one or more 01. questions: (b) $2^{50} - 2$ (c) $2^{50} + 2$ (d) $2^{50} + 1$ (a) $2^{50} - 1$ (a) Ans. If a variable takes values 0, 1, 2, 3,, 50 with frequency $1,^{50}$ C₁, 50 C₂......⁵⁰ C₅₀ then the A. M. is 02. (c) ${}^{50}C_2$ (d) 51 (a) 50 (b) 25 Ans. (b)The area of the region bounded by the X-axis and the curves defined by $y = \tan x, -\frac{\pi}{3} \le x \le \frac{\pi}{3}$ and $y = \cot x$, 03. $\frac{\pi}{6} \le x \le \frac{3\pi}{2}$ is (a) $-\frac{1}{2}\log 2$ (b) $\frac{1}{2}\log 2$ (c) $\log 2$ (d) None of these Ans. (a) 04. If three throws of three dices, the probability of throwing triplets not more than twice is. (a) $1 - \frac{1}{6^2}$ (b) $1 - \frac{1}{6^3}$ (c) $1 - \frac{1}{36^2}$ (d) $1 - \frac{1}{36^3}$ Ans. (d) The general value of θ , satisfying the equation, $\sin \theta = -\frac{1}{2}$, $\tan \theta = \frac{1}{\sqrt{2}}$ is 05. (a) $n\pi + \frac{\pi}{6}, n \in I$ (b) $n\pi + (-1)^n \left(\frac{7\pi}{6}\right), n \in I$ (c) $2n\pi \pm \frac{7\pi}{6}, n \in I$ (d) $2n\pi + \frac{11\pi}{6}, n \in I$ Ans. (a) If the position vector of A and B relative to O be $\hat{i} - 4\hat{j} + 3\hat{k}$ and $-\hat{i} + 2\hat{j} - \hat{k}$ respectively then the median **06.** through O of \triangle ABC is: (a) $-2\hat{i} + 2\hat{k}$ (b) $-\hat{j} + \hat{k}$ (c) $-\hat{i} - \hat{j} + \hat{k}$ (d) $-\hat{i} - \hat{j} - \hat{k}$ Ans. (b)

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07.	A = {1, 2, 3, 4}, B =	$\{3, 4, 5\}$ then the number	er of elements in $(A \cup B)$	B)×(A \cap B)×(A Δ B) is
	(a) 18	(b) 20	(c) 24	(d) 30
Ans.	(d)			
08.	If $ K = 5$ and $0^{\circ} < \theta$	$< 360^{\circ}$, then the numbe	er of different solution of	$3\cos\theta + 4\sin\theta = k$ is
	(a) 0	(b) 1	(c) 2	(d) Infinite
Ans.	(c)			
09.	Let $\vec{a} = \hat{i} + \hat{j}$ and $\vec{b} =$	$2\hat{i} - \hat{k}$. Then, the point of	of intersection of the line	s $\vec{r} \times \vec{a} = \vec{b} \times \vec{a}$ and $\vec{r} \times \vec{b} = \vec{a} \times \vec{b}$ is
	(a) $-\hat{i} + \hat{j} + \hat{k}$	(b) $3\hat{i} - \hat{j} + \hat{k}$	(c) $\hat{i} - \hat{j} - \hat{k}$	(d) $3\hat{i} + \hat{j} - \hat{k}$
Ans.	(d)		(, ,	
	[cos A	ing ol		
10.	If $F(\theta) = \begin{vmatrix} \cos \theta & -\sin \theta \\ \sin \theta & \cos \theta \end{vmatrix}$	$bs \theta = 0$, then find F(θ)) $F(\alpha)$ is equal to	
	0	0 1		
	(a) $f(\theta \alpha)$	(b) $f(\theta / \alpha)$	(c) $f(\theta + \alpha)$	(d) $f(\theta - \alpha)$
Ans.	(c)			
11.	If θ is the acute angle	e between the pair of line	$x^{2} - 7xy + 12y^{2} = 0$ t	hen $\frac{2\cos\theta + 3\sin\theta}{2} = 2$
	If the life device ungr			$4\sin\theta + 5\cos\theta$
	(a) $\frac{29}{69}$	(b) $\frac{61}{20}$	(c) $\frac{39}{61}$	(d) $\frac{69}{20}$
Ang	69	39	61	29
Ans.	(a) In a triangle if the su	m of two sides is x and th	eir product is y such that	t(x+z)(x-z) = y where z is the third
12,	side of the triangle, the	en the triangle is	on product is y such that	(X + 2)(X - 2) = j, where 2 is the time
	(a) Equilateral	(b) Right angle	(c) Isosceles	(d) Obtuse angled
Ans.	(d)			
13.	Number of common t	tangent to the circles x^2	$+y^{2} = 4 \& x^{2} + y^{2} - 6x$	-8y = 24 is
	(a) 0	(b) 1	(c) 3	(d) 4
Ans.	(b)			
14.	The locus of the point	t of intersection of tanger	In the ellipse $\frac{x^2}{2} + \frac{y^2}{12}$	= 1 which meet at right angle is
	(a) a circle	(b) a arabola	$a^2 b^2$ (c) an ellipse	(d) a hyperbola
Ans.	(a)	(0)	()	
17				, 1 1 1
15.	If the vectors $ai + j + j$	$\mathbf{k}, \mathbf{i} + \mathbf{b}\mathbf{j} + \mathbf{k}, \mathbf{i} + \mathbf{j} + \mathbf{c}\mathbf{k}$ (a	, b, c \neq 1) are coplanar, t	then $\frac{1}{1-a} + \frac{1}{1-b} + \frac{1}{1-c} =$
	(a) 0	(b) 1	(c) 2	(d) 3
Ans.	(b)	now Ph • 0052727026	0838162262 o maili	d. info@innsclassos.com
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[3]

	$(\mathbf{x} + 7)^{\mathbf{x}+5}$			
16.	$\lim_{x \to \infty} \left(\frac{x+7}{x+2} \right) \text{equal}$	to		
	(a) e^5	(b) e^{-5}	(c) e^2	(d) e^{-2}
Ans.	(a)			
17.	The probability of occ simultaneus occurrence	currence of two events E ce is 0.14. The probabilit	and F are 0.25 and 0.50 y that neither E nor F oc), respectively. The probability of their curs is
	(a) 0.61	(b) 0.11	(c) 0.39	(d) 0.89
Ans.	(c)			
18.	If H_1, H_2, \dots, H_n are	n harmonic means betw	veen a and $b(\neq a)$, then	$\frac{H_{1} + a}{H_{1} - a} + \frac{H_{n} + b}{H_{n} - b} = ?$
	(a) 2n	(b) n + 1	(c) n – 1	(d) 2n + 1
Ans.	(a)			
19.	If $y = \tan^{-1} \left(\frac{3x - x^3}{1 - 3x^3} \right)$), $-\frac{1}{\sqrt{3}} < x < \frac{-1}{\sqrt{3}}$ then	$\frac{dy}{dx}$ is	
	(a) $-\frac{1}{1+x^2}$	(b) $\frac{3}{1+x^2}$	(c) $\frac{3}{\sqrt{1+x^2}}$	(d) $\frac{1}{\sqrt{1+x^2}}$
Ans.	(b)			
20.	The ecentric angles of	the extremities of latus-	recta of the ellipse $\frac{x^2}{a^2}$ +	$\frac{y^2}{b^2} = 1$ are given by
	(a) $\tan^{-1}\left(\pm \frac{ae}{b}\right)$	(b) $\tan^{-1}\left(\pm\frac{be}{a}\right)$	(c) $\tan^{-1}\left(\pm\frac{b}{ae}\right)$	(d) $\tan^{-1}\left(\pm \frac{a}{be}\right)$
Ans.	(c)			
21.	If P(1, 2), Q(4, 6), R(4, 6)	(5, 7) and $S(a, b)$ are the	vertices of a parallelogr	am PQRS, then
	(a) $a = 2, b = 3$	(b) $a = 3, b = 4$	(c) $a = 2, b = 4$	(d) $a = 3, b = 5$
Ans.	(a)			
22.	Angle between \vec{a} and	\vec{b} is 120°. If $ \vec{b} = 2 \vec{\alpha} $	and the vectors $\vec{a} + x\vec{b}$	\vec{b} , $\vec{a} - \vec{b}$ are at right angles, then x =
	(a) $\frac{1}{3}$	(b) $\frac{1}{5}$	(c) $\frac{2}{3}$	(d) $\frac{2}{5}$
Ans.	(d)			
23.	The probability that a	man who is x years old w	vill die in a year is p. The	en, amongst n persons A_1, A_2, \dots, A_n
	each x years old now,	the probability that A_1	will die in one year is	
	(a) $\frac{1}{n^2}$	(b) $1 - (1 - P)^n$	(c) $\frac{1}{n^2} [1 - (1 - P)^n]$	(d) $\frac{1}{n} [1 - (1 - P)^n]$
A	(4)			

Ans. (d)

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24.	If in a triangle ABC a	$\cos^2 \frac{C}{2} + c \cos^2 \frac{A}{2} = \frac{3}{2}$	$\frac{b}{2}$ then the sides of triang	gle are in
	(a) A. P.	(b) H. P.	(c) G. P.	(d) None of these
Ans.	(a)			
25.	The area of the triang	le formed by the vertice	es whose position vector	are $3i + j, 5i + 2j + k, \hat{i} - 2j + 3\hat{k}$ is
	(a) $\sqrt{23}$ sq. units	(b) $\sqrt{21}$ sq. units	(c) $\sqrt{29}$ sq. units	(d) $\sqrt{31}$ sq. units
Ans.	(c)			
26.	In a $\triangle ABC$, if $\tan^2 \frac{A}{2}$	$\frac{A}{2} + \tan^2 \frac{B}{2} + \tan^2 \frac{C}{2} = k$	then k is always	
	(a) > 1	(b) ≥ 1	(c) $= 2$	(d) = 1
Ans.	(b)			
~=				100 20 1
27.	If a number x is select	ed from natural numbe	rs 1, 2, 100, then th	the probability for $x + \frac{29}{x} \ge 29$ is
	39	(1) 43	41	(1) 37
	(a) $\frac{1}{50}$	(b) $\frac{1}{50}$	(c) $\frac{1}{50}$	(d) $\frac{1}{50}$
Ans.	(a)			
28.	The function $f(x) = \frac{1}{1}$	$\frac{x}{1+x\tan x}, \ 0 \le x \le \frac{\pi}{2} \ i$	is maximum when	
	(a) $x = \sec x$	(b) $x = \tan x$	(c) $x = \cos x$	(d) None of these
Ans.	(c)			
29.	The standard deviation deviation will be.	on of 20 numbers is 30.	If each of the numbers i	s increased by 4, then the new standard
	(a) 24	(b) 34	(c) 30	(d) 20
Ans.	(c)			
30.	Suppose A ₁ , A ₂ ,	\dots, A_{30} are 30 sets each	ch having 5 elements ar	nd B_1, B_2, \dots, B_n are n sets such that
	$\bigcup_{i=1}^{30} \mathbf{A}_i = \bigcup_{j=1}^{n} \mathbf{B}_j = \mathbf{S}_i$	S . If each element of S	belong to exactly 10 of t	he A_i 's and exactly 9 of the B_j 's then n =
	(a) 15	(b) 45	(c) 75	(d) 90
Ans.	(b)			
31.	If $y = \sin^{-1}\left(\frac{x^2 + \sqrt{1 + 3x^2}}{\sqrt{1 + 3x^2}}\right)$	$\left(\frac{1}{x+1}\right)(x>0), \text{ then } \frac{d}{dx}$	$\frac{\mathrm{ly}}{\mathrm{lx}} =$	
	(a) $\frac{x^2 - 1}{x^4 + 3x^2 + 1}$	(b) $\frac{x^2 + 1}{x^4 + 3x^2 + 1}$	(c) $\frac{x^2 - 1}{x^4 - 3x^2 + 1}$	(d) $\frac{x^2 + 1}{x^4 - 3x^2 + 1}$
Ans.	(c)			
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32.	For what valu	e of p, the	polynomial	$x^4 - 3x^3 + 2$	$2px^2 - 6$ is e	xactly divis	ible by x – 1	
	(a) 2		(b) 4	((c) 6		(d) 8	
Ans.	(b)							
33.	Consider the f	ollowing fi	requency dis	tribution tab	le.			
	Class interva	al 10-20	20-30	30-40	40-50	50-60	60-70	70-50
	Frequency	180	F1	34	180	136	F2	50
	If the total fre	quency is	686 & media	an is 42.6 the	en the values	s of F1 and	F2 are	
	(a) 81, 25		(b) 82, 24	((c) 83, 23		(d) 84, 22	
Ans.	(b)							
34.	If $f: R \to R$	is defined	by $f(x) = \begin{cases} \\ \\ \\ \\ \end{cases}$	$\frac{x+2}{x^2+3x+2}$ -1 0	If x ∈ R − If x = If x =	$-\{-1,-2\}$ = -2 th = -1	nen f(x) is co	ontinuous on the set
	(a) R		(b) $R - \{-2\}$	((c) $R - \{-1\}$		(d) R-{-1, -	-2}
Ans.	(c)							
35.	The lines px + is bisected at (qy = 1 and p, q). Equ	dqx + py = 1 ation of med	are respect	ively the side angle throug	es AB, AC o h the vertex	of the triang A is	e ABC and the base BC
	(a) $(2pq-1)(qx + py - 1) + (p^2 + q^2 - 1)(px + qy - 1) = 0$							
	(b) (2pq-1)(qx + py –	$(1) - (p^2 + q^2)$	-1)(px + qy	(-1) = 0			
	(c) $(2pq-1)($	(c) $(2pq-1)(px+qy-1) + (p^2+q^2-1)(qx+py-1) = 0$						
	(d) $(2pq - 1)($	px + qy - 2	$(1) - (p^2 + q^2)$	-1)(qx + py)	(-1) = 0			
Ans.	(d)							
36.	If $a\cos\theta + bs$	$\sin \theta = 2.8$	$x a \sin \theta - b c$	$\cos \theta = 3$ the	$n a^2 + b^2 = b^2$	9		
	(a) 13		(b) 5	((c) 10		(d) 12	
Ans.	(a)			Ň				
37.	A polygon has	s 44 diagoi	nals, the nun	nber of sides	are			
	(a) 11		(b) 10	((c) 9		(d) 12	
Ans.	(a)							
38.	If the system α $\lambda = ?$	of equation	3x - y + 2	z = 3, x + 2y	y - 3z = -2,	$6x + 5y + \lambda$	z = -3 has a	atleast one solution then
	(a) –5		(b) 3	((c) 5		(d) 6	
Ans.	(a)							

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[6]

39. $\int 3^{3^x} 3^3 3^x dx$ is equal to

(a)
$$\frac{3^{x}}{(\log 3)^{3}} + C$$
 (b) $\frac{3^{3^{x}}}{(\log 3)^{3}} + C$ (c) $\frac{3^{3^{3^{x}}}}{(\log 3)^{3}} + C$ (d) None of these

Ans. (c)

40. If $32\tan^8\theta = 2\cos^2\alpha - 3\cos\alpha$ and $3\cos 2\theta = 1$, then the general value of α for $n \in \mathbb{Z}$ is

(a)
$$n\pi \pm \frac{\pi}{3}$$
 (b) $2n\pi \pm \frac{2\pi}{3}$ (c) $2n\pi \pm \frac{\pi}{3}$ (d) $n\pi \pm \frac{2\pi}{3}$

Ans. (b)

41. If $\log(1 - x + x^2) = a_1 x + a_2 x^2 + a_3 x^3 + \dots$ Then $a_3 + a_6 + a_9 + \dots$ is equal to

(a)
$$\log 2$$
 (b) $\frac{1}{3}\log 2$ (c) $\frac{2}{3}\log 2$ (d) $2\log 2$

Ans. (c)

42. If
$$\frac{n!}{2!(n-2)!}$$
 and $\frac{n!}{n!(n-4)!}$ are in ratio 2 : 1, then the value of n is
(a) 0 (b) 2 (c) 4 (d) 5

Ans. (d)

43. If $\vec{e}_1 = (1,1,1)$ and $\vec{e}_2 = (1,1,-1)$ and \vec{a} and \vec{b} are two vectors such that $\vec{e}_1 = 2\vec{a} + \vec{b}$ and $\vec{e}_2 = \vec{a} + 2\vec{b}$, then the angle between \vec{a} and \vec{b} is

(a)
$$\cos^{-1}\left(-\frac{7}{11}\right)$$
 (b) $\cos^{-1}\left(\frac{7}{11}\right)$ (c) $\cos^{-1}\left(\frac{7}{9}\right)$ (d) $\cos^{-1}\left(\frac{6\sqrt{2}}{11}\right)$

Ans. (a)

44. $\int e^{x} (\sinh x + \cosh x) dx = ?$ (a) $e^{x} \operatorname{sech} x + C$ (b) $e^{x} \cosh x + C$ (c) $\sinh 2x + C$ (d) $\cosh 2x + C$ Ans. (b)

If X and Y are two sets, then $X \cap Y' \cap (X \cup Y)'$ is

(a) X' (b) Y' (c) ϕ (d) None of these

Ans. (c)

45.

46. If n is an integer between 0 to 21, then find a value of n for which the value of n!(21-n)! is minimum.

(a) 9 (b) 10 (c) 12 (d) 21

Ans. (b)

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47.	The four geometric me	eans between 2 ai	nd 64 are			
	(a) $\frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \frac{1}{32}$	(b) 4, 8, 16, 32	(c) $4\sqrt{2}, 8,$	16√2,32	(d) None of	these
Ans.	(b)					
48.	Let $\vec{a} = 2\hat{i} + \hat{j} + 2\hat{k}$, \vec{b}	$=\hat{i}-\hat{j}+2\hat{k}$ and \bar{d}	$\vec{c} = \hat{i} + \hat{j} - 2\hat{k} a$	re three vector	rs. Then, a vector in	then plane of \vec{a} and \vec{c}
	whose projection on \overline{b}	is of magnitude	$\frac{1}{\sqrt{6}}$ is			
Ans.	(a) $3\hat{i} - 2\hat{j}$ (b)	(b) $3\hat{i} + 2\hat{j}$	(c) 2i	$+3\hat{j}-\hat{k}$	(d) $3\hat{i} + 2\hat{j} + \hat{k}$	
49.	If $\alpha \neq \beta$ and $\alpha^2 = 5\alpha$	-3 and $\beta^2 = 5\beta$ -	-3, then the ed	quation whos	e roots are $\frac{\alpha}{\beta}$ and	$\frac{\beta}{\alpha}$ is
Ans.	(a) $3x^2 - 25x + 3 = 0$ (d)	(b) $3x^2 + 5x + 3$	3 = 0 (c) $3x$	$x^2 - 5x + 3 = 0$	0 (d) $3x^2 - 19x$	+3=0
50.	The value of $\tan 9^\circ - 1$	$\tan 27^\circ - \tan 63^\circ$	$+ \tan 81^{\circ}$ is eq	ual to		
	(a) 5	(b) 3	(c) 4		(d) 6	
Ans.	(c)					
		-	Reason	<u>ing</u>		
51.	Insert the missing nun	nber 8, 7, 11, 12,	14, 17, 17, 22	,?		
	(a) 27	(b) 20	(c) 22		(d) 24	
Ans.	(b)					
52.	In a class of 50 student then that of Raghu. Pa	ts, Raghu's rank i ul's rank in the cla	s twice that of ass is	Paul. There a	are 10 students who	o have ranked worse
	(a) 5th	(b) 10th	(c) 15	th	(d) 20th	
Ans.	(d)					
53.	Read the following info	ormation carefully	and then answ	er the following	ng questions:	
	I. $P\Psi Q$ means I	P is mother of Q.		II. $P \in$	\mathbf{Q} means P is sist	er of Q.
	Which of the following	g means R is broth	ner of T?	IV. P#	Q means P is brot	her of Q.
	(a) $R\Psi S # U T$	(b) UYR#S#'	T (c) U	ΨR ∈ SΨT	(d) T # S \$ 0	$Q \in R$
Ans.	(b)					
54.	Study the following tab	ole, carefully and a	answer the follo	owing questio	ons	
Subje	ct (Full marks 50)	40 & above	30 & above	20 & above	e 10 & above	0 and above
Physic	2S	9	32	80	92	100
Chem	istry	4	21	66	81	100
Aggre	gate Average	7	27	73	87	100
Ans.	(a) 13(d)	ts scoring less that (b) 19	n 40% marks i (c) 20	n aggregate is	(d) 27	

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55.	Choose the pair that	best represents a	similar relations	hip to the one ex	xpressed in the o	original pair of words :
	WAITRESS : RES	STAURANT				
	(a) Doctor : Diagnos	is (b) Actor : Ro	le (c) Dr	iver: Truck	(d) Teacher: S	School
Ans.	(d)					
56.	How many times in a	a day are the hand	s of a clock poi	nting opposite to	each other?	
	(a) 4	(b) 20	(c) 22		(d) 14	
Ans.	(c)					
57.	In this series, looking	g at the letter patte	rn fill the blank	in the middle of	the series :	
	ELFA, GLHA, ILJ	IA,, MLN	NA			
	(a) OLPA	(b) KLMA	(c) LI	.MA	(d) KLLA	
Ans.	(d)					
58.	If $Z = 52$ and ACT =	48, then BAT wi	ll be equal to			
	(a) 46	(b) 39	(c) 44		(d) 41	
Ans.	(a)					
59.	Which word does N	OT belong with th	ne others?			
	(a) wing	(b) fin	(c) Be	eak	(d) Rudder	
Ans.	(c)					
60.	Choose the pair of m	umber that comes	next :			
	1, 10, 7, 20, 13, 30,	, 19,,?				
	(a) 25, 22	(b) 26, 24	(c) 26	5, 23	(d) 25, 23	
Ans.	(c)					
61.	Study the following t	table, carefully and	answer the follo	owing questions		
Subje	ct (Full marks 50)	40 & above	30 & above	20 & above	10 & above	0 and above
Physic	es	9	32	80	92	100
Chem	istry	4	21	66	81	100
Aggre	gate Average	7	27	73	87	100
	What is the differenc passed with 30 as cu	e between the nun t-off marks in agg	nber of students regate?	passed with 30 a	as cut-off marks	in Chemistry and those
	(a) 3	(b) 4	(c) 5		(d) 6	
Ans.	(d)					
62.	There are six member C. F is the uncle of I	ers in a family A is D. What is the rela	the father of D, tionship of C w	E is the grandfa ith F?	ther of D. B is th	he daughter-in-law of
	(a) sister	(b) Mother-in-	-law (c) Ne	ephew	(d) Data inade	equate
Ans.	(d)					
63.	Study the following t	table, carefully and	l answer the follo	owing questions		
Subje	ct (Full marks 50)	40 & above	30 & above	20 & above	10 & above	0 and above
Physic	CS	9	32	80	92	100
Chem	istry	4	21	66	81	100
Aggre	gate Average	7 (now Ph + 00527	27	73	87 d: info@innaa	100

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	If it is know that at lea marks in Chemistry fo	ast 23 students were eligi or eligible to Symposium	ble for a symposiur would lie in the rai	m on Chemistry, then the minimum qualifying nge?
	(a) 30 - 40	(b) 20 - 30	(c) Below 20	(d) Cannot be determined.
Ans.	(b)			
64.	Choose the pair that	best represents a similar	relationship to the	one expressed in the original pair of words
	PULSATE : THRO	B ::		
	(a) WALK : RUN	(b) TIRED : SLEEP	(c) EXAMINE	: SCRUTINIZE (d) BALLET : DANCER
Ans.	(c)			
65.	Choose the word that	t is a necessary part of th	e underlined word	I: HARVEST
	(a) autumn	(b) crop	(c) stockpile	(d) tractor
Ans.	(b)			
66.	Choose the word wh	ich has the same relation	ship among the giv	ven three words : Yellow, Blue, Red.
	(a) Black	(b) Orange	(c) White	(d) Paint
Ans.	(b)			
67.	Find the missing terr	n7:56::9:?		
	(a) 63	(b) 81	(c) 90	(d) 99
Ans.	(c)			
68.	Find the matching ter	rm for Music : Guitar :	Performer.	
	(a) Dance : Tune : Ins	trument	(b) Food : Recip	pe : Cook
	(c) Patient : Medicine	e:Doctor	(d) Trick : Rope	e : Acrobat
Ans.	(d)			
69.	Read the information	given below and answer	the following ques	tion:
I.	In a family of six pers	sons A, B, C, D, E and F	there are two mar	ried couples.
Π.	D is grandmother of A	A and mother of B.		
III.	C is wife of B and mo	other of F.		
IV.	F is the granddaughte	er of E.		
	Which of the following	ng is true?		
	(a) A is brother of F.	(b) A is sister of F.	(c) D has two gr	randson (d) None of these
Ans.	(d)			

A company produces five different products. The sales of these five product (in lakh number of packs) during 70. 2005 and 2010 are shown in the following bar-graph. Question is based on this graph.

Sales (in lakh number of packs) of five different products of a Company during 2005 - 2010.

[10]



⁽c) Ans.

Ans. 71.

I.

II.

III.

IV.

72. A company produces five different products. The sales of these five product (in lakh number of packs) during 2005 and 2010 are shown in the following bar-graph. Question is based on this graph.

Sales (in lakh number of packs) of five different products of a Company during 2005 - 2010.



The sales of Product A in 2010 was by what percent more than the sales of Product B in 2010? (Rounded off to the nearest integer) (;

a) 33%	(b) 31%	(c) 28%	(d) 22%



II	NPS CLASSES		[11]		web. : inpsclasses.com	
73.	Insert the missin	Insert the missing number : 16, 33, 65, 131, 261, ?				
	(a) 523	(b) 521	(c) 615	(d) 721		

Ans. (a)

74. A company produces five different products. The sales of these five product (in lakh number of packs) during 2005 and 2010 are shown in the following bar-graph. Question is based on this graph.

Sales (in lakh number of packs) of five different products of a Company during 2005 - 2010.



IN	PS CLASSES	[]	[2]	web. : inpsclasses.com				
78.	Choose the correct	option for the remainde	r when $X = 1! + 2!$	+ 3! + + 100! is divided by 24				
	(a) 9	(b) 11	(c) 152	(d) 13				
Ans.	(a)							
79.	Choose the missing	term : BYCX : DWEV	: : FUGT : ?					
	(a) EHIJ	(b) GHIJ	(c) HSIR	(d) SRHS				
Ans.	(c)							
80.	COUNSEL is to BI	TIRAK, so also GUIDA	NCE is to	_?				
	(a) EOHYZKBB	(b) FOHYZJBB	(c) FPHZZKAI	B (d) HOHYBJBA				
Ans.	(b)							
81.	In a certain code lan, 'he leaves soon'. Wh	guage, 'do re me' means nich word in the language	s "he is late"; 'fa me e means 'late'	e la' means 'she is early' and 'so ti do' means				
	(a) la	(b) do	(c) me	(d) re				
Ans.	(d)							
82.	Read the information	n given below and answer	the following ques	stion:				
I.	In a family of six per	rsons A, B, C, D, E and H	there are two mar	rried couples.				
II.	D is grandmother of A and mother of B.							
III.	C is wife of B and m	other of F.						
IV.	F is the granddaughter of E.							
	Who among the follo	owing is one of the coupl	es?					
	(a) CD	(b) DE	(c) EB	(d) None of these				
Ans.	(b)							
83.	Choose the number	pair or group that is diffe	rent from other?					
	(a) 15 : 46	(b) 12 : 37	(c) 9 : 28	(d) 8 : 33				
Ans.	(d)							
84.	Read the following in	Read the following information carefully and then answer the following questions:						
	I. $P\Psi Q$ mean	s P is mother of Q.	II.	$P \in Q$ means P is sister of Q.				
	III. P \$ Q means	P is father of Q.	IV.	P # Q means P is brother of Q.				
	Which of the following means N is definitely daughter of L?							
	(a) K \$ L # M # N	(b) $M \Psi K \$ N \in L$	(c) KΨM #	$L \in N$ (d) $L \Psi K \$ N \# M$				
Ans.	(b)							
85.	If 'A3T15R' stands	for 'ACTOR' and 'D1T:	5' stands for DATE	e, how will you code 'ROTATE'				
	(a) R16T1T5	(b) R15T1T5	(c) R15T1T16	(d) R15C1&7				
Ans.	(b)							
86.	If $9 \times 3 + 8 = 24,10 \times 3 + 8 = 24,10 \times 3 \times 3 + 8 = 24,10 \times 3 \times $	$x^2 + 7 = 35 \& 80 \times 40 + 3$	B = 6, then find 12:	$\times 4 + 3 = ?$				
	(a) 7	(b) 9	(c) 12	(d) 16				
Ans.	(b)			· ·				

IN	PS CLA	SSES		[13]	web. : inpsclasses.com
87.	Choos	e the odd one	:		
	(a) Zel	bra	(b) Hyena	(c) Rhinoceros	(d) Giraffe
Ans.	(b)				
88.	Choos	e the missing	term out of the given	alternatives : Q1F, S2E, U	J6D, W21C, ?
	(a) Y6	6B	(b) Y44B	(c) Y88B	(d) Z88B
Ans.	(c)				
89.	Read t	he following in	nformation carefully a	nd then answer the followi	ng questions:
	I.	PΨQ mean	s P is mother of Q.	II. P e	\mathbf{Q} means P is sister of Q.
	III.	P \$ Q means	P is father of Q.	IV. P#	Q means P is brother of Q.
	If K 4	$V L \in M \# N$, then how K is relate	ed with N?	
	(a) Mo	other	(b) Aunt	(c) Great Aunt	(d) Grandmother
Ans.	(a)				
90.	Radha Today	is twice as ol ?	d as Rita was 2 years	ago. If difference betwee	en their ages is 2 years, how old is Radha
	(a) 6		(b) 8	(c) 10	(d) 12
Ans.	(b)				
				English	
				Litgust	
91.	Fill in t	he blank with	the most appropriate	word given:	
	The sta	ate Transporta	ation Corporation has	sa loss of 5	crore INR this year.
	(a) der	ived	(b) Incurred	(c) performed	(d) formulated
Ans.	(b)				
92.	Fill in t	he blank with	the most appropriate	word:	
	The	with	which he is able to wi	eld the paint-brush in real	ly remarkable.
	(a) eas	se	(b) Practice	(c) sweep	(d) gait
Ans.	(a)				
93.	Read t	he following p	bassage carefully and a	unswer the question that fo	ollows:
It is said with truth that the function of a university is to prepare the young to take their place It must provide its members with the knowledge and skill necessary to make them efficient of whole duty of man exhausted by the acquisition of knowledge and professional training? Is a institution for higher learning, a factory which churns out clerks and technicians able to run the State? Mere knowledge which gratifies curiousity is different from culture which refines pers					oung to take their place in human society. to make them efficient citizens. But is the ofessional training? Is a university only an echnicians able to run the machinery of the ulture which refines personality. Culture is

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not remembering a mass of serious details about the dates of birth of the great heroes of the world or the interesting names of the fastest ships which cross the Altantic or entertaining odds and ends gathered from the latest who's who. A well-known institution of this country has for its motto **sa vidya yavimuchyate :** that is, knowledge which is designed for salvation, for the development of the soul, is the best. Such an idea is not merely an Indian idiosyncrasy. Plato said long ago that the culture of soul is "the first and fairest thing that the best of men can ever have. According to Goethe, the object of education is to form tastes and not simply to communicate knowledge. A man's culture is not judged by the amount of tabulated information which he has at his command, but by the quality of mind which he brings to bear on the facts of life. Eduction is not cramming the mind with a host of technical details, putting sight, as it were, into blind eyes. The eye of the soul is never

INPS CLASSES

[14]

blind, only its gaze may be turned to the false and the fleeting. Too often the vision may be dragged downwards by the "leaden weights" of pride and prejudice, of passion and desire. The function of the teacher is not to add to the "leaden weights" but remove them and liberate the soul from the encumbrance so that is may follow its native impulse to soar upwards. The student at a university does not merely learn something, but becomes something by being exposed, in the most elastic period of his life, to transforming influences, such as the constant clash of mind with mind, the interchange of ideas, the testing of opinions, and the growth of knowledge of human nature.

(d) It forms taste

What is the object of education according to Goathe?

(a) It teaches social manners. (b) It teaches courtesy.

(c) It communicate knowledge

Ans. (d)

94. Read the following passage carefully and answer the question that follows:

It is said with truth that the function of a university is to prepare the young to take their place in human society. It must provide its members with the knowledge and skill necessary to make them efficient citizens. But is the whole duty of man exhausted by the acquisition of knowledge and professional training? Is a university only an institution for higher learning, a factory which churns out clerks and technicians able to run the machinery of the State? Mere knowledge which gratifies curiousity is different from culture which refines personality. Culture is not remembering a mass of serious details about the dates of birth of the great heroes of the world or the interesting names of the fastest ships which cross the Altantic or entertaining odds and ends gathered from the latest who's who. A well-known institution of this country has for its motto sa vidya yavimuchyate : that is, knowledge which is designed for salvation, for the development of the soul, is the best. Such an idea is not merely an Indian idiosyncrasy. Plato said long ago that the culture of soul is "the first and fairest thing that the best of men can ever have. According to Goethe, the object of education is to form tastes and not simply to communicate knowledge. A man's culture is not judged by the amount of tabulated information which he has at his command, but by the quality of mind which he brings to bear on the facts of life. Eduction is not cramming the mind with a host of technical details, putting sight, as it were, into blind eyes. The eye of the soul is never blind, only its gaze may be turned to the false and the fleeting. Too often the vision may be dragged downwards by the "leaden weights" of pride and prejudice, of passion and desire. The function of the teacher is not to add to the "leaden weights" but remove them and liberate the soul from the encumbrance so that is may follow its native impulse to soar upwards. The student at a university does not merely learn something, but becomes something by being exposed, in the most elastic period of his life, to transforming influences, such as the constant clash of mind with mind, the interchange of ideas, the testing of opinions, and the growth of knowledge of human nature.

What is meant by "leaden weights"?

(a) Weights made of leaden

(b) Cold scientific knowledge

(c) Hindering factors, of pride and prejudice, passion and desire, in the liberation of the soul.

(d) Social and family resposibilities.

Ans. (c)

95. Choose the most suitable antonym of the given word :

(b) unfamiliar

ERUDITE

(a) scholarly	
---------------	--

(c) illiterate

(d) arrogant

Ans. (c)

11	NPS CLASSES		[15]	web.:inpsc	lasses.com
96.	Fill in the blank wit	h the most appropriat			
	The car driver was	arrested for rash driv	ving and his license was	by the police.	
	(a) impounded	(b) flown	(c) penalized	(d) banned	

Ans. (a)

97. Read the following passage carefully and answer the question that follows:

It is said with truth that the function of a university is to prepare the young to take their place in human society. It must provide its members with the knowledge and skill necessary to make them efficient citizens. But is the whole duty of man exhausted by the acquisition of knowledge and professoional training? Is a university only an institution for higher learning, a factory which churns out clerks and technicians able to run the machinery of the State? Mere knowledge which gratifies curiousity is different from culture which refines personality. Culture is not remembering a mass of serious details about the dates of birth of the great heroes of the world or the interesting names of the fastest ships which cross the Altantic or entertaining odds and ends gathered from the latest who's who. A well-known institution of this country has for its motto sa vidya yavimuchyate : that is, knowledge which is designed for salvation, for the development of the soul, is the best. Such an idea is not merely an Indian idiosyncrasy. Plato said long ago that the culture of soul is "the first and fairest thing that the best of men can ever have. According to Goethe, the object of education is to form tastes and not simply to communicate knowledge. A man's culture is not judged by the amount of tabulated information which he has at his command, but by the quality of mind which he brings to bear on the facts of life. Eduction is not cramming the mind with a host of technical details, putting sight, as it were, into blind eyes. The eye of the soul is never blind, only its gaze may be turned to the false and the fleeting. Too often the vision may be dragged downwards by the "leaden weights" of pride and prejudice, of passion and desire. The function of the teacher is not to add to the "leaden weights" but remove them and liberate the soul from the encumbrance so that is may follow its native impulse to soar upwards. The student at a university does not merely learn something, but becomes something by being exposed, in the most elastic period of his life, to transforming influences, such as the constant clash of mind with mind, the interchange of ideas, the testing of opinions, and the growth of knowledge of human nature.

According to the passage, the function of the teacher is :

(a) To remove leaden weights of price and prejudice, passion, and desire to liberate the soul.

(b) To instill facts into the minds of the students.

(c) To teach humanity.

(d) To foster brotherhood.

Ans. (a)

98. Write one word for the following :

An uncivilized / primitive person.

	(a) barbarian	(b) ascetic	(c) bourgeois	(d) altruist	
Ans.	(a)				
99.	Choose the most suitable synonym of the given word : RECUPERATE				
	(a) recapture	(b) reclaim	(c) recover	(d) recur	
Ans.	(c)				

100.	Choose the most s	Choose the most suitable synonym of given word : SCINTILLATING				
	(a) touching	(b) nagging	(c) glittering			

(d) warning

Ans. (c)

INPS CLASSES		[16]		web. : inpsclasses.com		
101.	Choose the most su	ICE				
	(a) diligence	(b) meticulousness	(c) integrity	(d) honesty		
Ans.	(b)					
102.	Write on word for the following :					
	One who does not save for future.					
	(a) incorporeal	(b) inedible	(c) improvident	(d) implacable		
Ans.	(c)					

103. Read the following passage carefully and answer the question that follows:

It is said with truth that the function of a university is to prepare the young to take their place in human society. It must provide its members with the knowledge and skill necessary to make them efficient citizens. But is the whole duty of man exhausted by the acquisition of knowledge and professoional training? Is a university only an institution for higher learning, a factory which churns out clerks and technicians able to run the machinery of the State? Mere knowledge which gratifies curiousity is different from culture which refines personality. Culture is not remembering a mass of serious details about the dates of birth of the great heroes of the world or the interesting names of the fastest ships which cross the Altantic or entertaining odds and ends gathered from the latest who's who. A well-known institution of this country has for its motto sa vidya yavimuchyate : that is, knowledge which is designed for salvation, for the development of the soul, is the best. Such an idea is not merely an Indian idiosyncrasy. Plato said long ago that the culture of soul is "the first and fairest thing that the best of men can ever have. According to Goethe, the object of education is to form tastes and not simply to communicate knowledge. A man's culture is not judged by the amount of tabulated information which he has at his command, but by the quality of mind which he brings to bear on the facts of life. Eduction is not cramming the mind with a host of technical details, putting sight, as it were, into blind eyes. The eye of the soul is never blind, only its gaze may be turned to the false and the fleeting. Too often the vision may be dragged downwards by the "leaden weights" of pride and prejudice, of passion and desire. The function of the teacher is not to add to the "leaden weights" but remove them and liberate the soul from the encumbrance so that is may follow its native impulse to soar upwards. The student at a university does not merely learn something, but becomes something by being exposed, in the most elastic period of his life, to transforming influences, such as the constant clash of mind with mind, the interchange of ideas, the testing of opinions, and the growth of knowledge of human nature.

What is a man's culture judged by?

(a) By the quality of mind which he brings to bear on the facts of life.

- (b) By man's social skill.
- (c) By the variety of books he reads.
- (d) By money and influence.

Ans. (a)

104. Read the following passage carefully and answer the question that follows:

It is said with truth that the function of a university is to prepare the young to take their place in human society. It must provide its members with the knowledge and skill necessary to make them efficient citizens. But is the whole duty of man exhausted by the acquisition of knowledge and professoional training? Is a university only an institution for higher learning, a factory which churns out clerks and technicians able to run the machinery of the State? Mere knowledge which gratifies curiousity is different from culture which refines personality. Culture is not remembering a mass of serious details about the dates of birth of the great heroes of the world or the interesting names of the fastest ships which cross the Altantic or entertaining odds and ends gathered from the latest who's who. A well-known institution of this country has for its motto **sa vidya yavimuchyate :** that is, knowledge which is designed for salvation, for the development of the soul, is the best. Such an idea is not

merely an Indian idiosyncrasy. Plato said long ago that the culture of soul is "the first and fairest thing that the best of men can ever have. According to Goethe, the object of education is to form tastes and not simply to communicate knowledge. A man's culture is not judged by the amount of tabulated information which he has at his command, but by the quality of mind which he brings to bear on the facts of life. Eduction is not cramming the mind with a host of technical details, putting sight, as it were, into blind eyes. The eye of the soul is never blind, only its gaze may be turned to the false and the fleeting. Too often the vision may be dragged downwards by the "leaden weights" of pride and prejudice, of passion and desire. The function of the teacher is not to add to the "leaden weights" but remove them and liberate the soul from the encumbrance so that is may follow its native impulse to soar upwards. The student at a university does not merely learn something, but becomes something by being exposed, in the most elastic period of his life, to transforming influences, such as the constant clash of mind with mind, the interchange of ideas, the testing of opinions, and the growth of knowledge of human nature.

What are the hindering factors in the libration and development of the soul?

(a) Power and wealth

(c) Money and influence

(b) Passion and desire, pride and prejudice.(d) Greed and envy

Ans. (b)

105. Choose the most suitable synonym of the given word : BLAND

- (a) pleasant (b) harsh (c) irritating (d) tasteless
- Ans. (d)
- 106. Read the following passage carefully and answer the question that follows:
 - It is said with truth that the function of a university is to prepare the young to take their place in human society. It must provide its members with the knowledge and skill necessary to make them efficient citizens. But is the whole duty of man exhausted by the acquisition of knowledge and professoional training? Is a university only an institution for higher learning, a factory which churns out clerks and technicians able to run the machinery of the State? Mere knowledge which gratifies curiousity is different from culture which refines personality. Culture is not remembering a mass of serious details about the dates of birth of the great heroes of the world or the interesting names of the fastest ships which cross the Altantic or entertaining odds and ends gathered from the latest who's who. A well-known institution of this country has for its motto sa vidya yavimuchyate : that is, knowledge which is designed for salvation, for the development of the soul, is the best. Such an idea is not merely an Indian idiosyncrasy. Plato said long ago that the culture of soul is "the first and fairest thing that the best of men can ever have. According to Goethe, the object of education is to form tastes and not simply to communicate knowledge. A man's culture is not judged by the amount of tabulated information which he has at his command, but by the quality of mind which he brings to bear on the facts of life. Eduction is not cramming the mind with a host of technical details, putting sight, as it were, into blind eyes. The eye of the soul is never blind, only its gaze may be turned to the false and the fleeting. Too often the vision may be dragged downwards by the "leaden weights" of pride and prejudice, of passion and desire. The function of the teacher is not to add to the "leaden weights" but remove them and liberate the soul from the encumbrance so that is may follow its native impulse to soar upwards. The student at a university does not merely learn something, but becomes something by being exposed, in the most elastic period of his life, to transforming influences, such as the constant clash of mind with mind, the interchange of ideas, the testing of opinions, and the growth of knowledge of human nature.

Mere knowledge and culture may be distinguished from each other in that:

- (a) The former widens the mental horizon, the latter enlarges the heart.
- (b) The former gratifies curiosity, the latter refines personality.
- (c) The former is concerned with facts, the latter with fiction.
- (d) The former adds to power, the latter adds to prestige.
- Ans. (b)

IN	IPS CLASSES	[18]	web.:inpsclasses.com
107.	Fill in the blank w	vith the most appropriate word given :	
	Leannot	it to you right now: tomorrow we will discuss about it	

(a) demand (b) disturb (c) explain (d) expect

Ans. (c)

108. Read the following passage carefully and answer the question that follows:

It is said with truth that the function of a university is to prepare the young to take their place in human society. It must provide its members with the knowledge and skill necessary to make them efficient citizens. But is the whole duty of man exhausted by the acquisition of knowledge and professoional training? Is a university only an institution for higher learning, a factory which churns out clerks and technicians able to run the machinery of the State? Mere knowledge which gratifies curiousity is different from culture which refines personality. Culture is not remembering a mass of serious details about the dates of birth of the great heroes of the world or the interesting names of the fastest ships which cross the Altantic or entertaining odds and ends gathered from the latest who's who. A well-known institution of this country has for its motto sa vidya yavimuchyate : that is, knowledge which is designed for salvation, for the development of the soul, is the best. Such an idea is not merely an Indian idiosyncrasy. Plato said long ago that the culture of soul is "the first and fairest thing that the best of men can ever have. According to Goethe, the object of education is to form tastes and not simply to communicate knowledge. A man's culture is not judged by the amount of tabulated information which he has at his command, but by the quality of mind which he brings to bear on the facts of life. Eduction is not cramming the mind with a host of technical details, putting sight, as it were, into blind eyes. The eye of the soul is never blind, only its gaze may be turned to the false and the fleeting. Too often the vision may be dragged downwards by the "leaden weights" of pride and prejudice, of passion and desire. The function of the teacher is not to add to the "leaden weights" but remove them and liberate the soul from the encumbrance so that is may follow its native impulse to soar upwards. The student at a university does not merely learn something, but becomes something by being exposed, in the most elastic period of his life, to transforming influences, such as the constant clash of mind with mind, the interchange of ideas, the testing of opinions, and the growth of knowledge of human nature.

What is the function of education according to the ancient Indian philosophers?

- (a) Education is the development of mind.
- (b) Education brings about salvation and development of the soul.
- (c) Education is the cultivation of culture.
- (d) Education aims at the inculcation of generosity.

Ans. (b)

109. Read the following passage carefully and answer the question that follows:

It is said with truth that the function of a university is to prepare the young to take their place in human society. It must provide its members with the knowledge and skill necessary to make them efficient citizens. But is the whole duty of man exhausted by the acquisition of knowledge and professoional training? Is a university only an institution for higher learning, a factory which churns out clerks and technicians able to run the machinery of the State? Mere knowledge which gratifies curiousity is different from culture which refines personality. Culture is not remembering a mass of serious details about the dates of birth of the great heroes of the world or the interesting names of the fastest ships which cross the Altantic or entertaining odds and ends gathered from the latest who's who. A well-known institution of this country has for its motto **sa vidya yavimuchyate :** that is, knowledge which is designed for salvation, for the development of the soul, is the best. Such an idea is not merely an Indian idiosyncrasy. Plato said long ago that the culture of soul is "the first and fairest thing that the best of men can ever have. According to Goethe, the object of education is to form tastes and not simply to communicate knowledge. A man's culture is not judged by the amount of tabulated information which he has at his command, but by the quality of mind which he brings to bear on the facts of life. Eduction is not cramming

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	the mind with a host of technical details, putting sight, as it were, into blind eyes. The eye of the soul is never blind, only its gaze may be turned to the false and the fleeting. Too often the vision may be dragged downwards by the "leaden weights" of pride and prejudice, of passion and desire. The function of the teacher is not to add to the "leaden weights" but remove them and liberate the soul from the encumbrance so that is may follow its native impulse to soar upwards. The student at a university does not merely learn something, but becomes something by being exposed, in the most elastic period of his life, to transforming influences, such as the constant clash of mind with mind, the interchange of ideas, the testing of opinions, and the growth of knowledge of human nature.				
	The function of univer	rsity is:			
	(a) To enable the you	ng to gather facts about	the world.		
	(b) To learn to do his	job.			
	(c) To prepare the yo	ung to take their place in	n society.		
	(d) To enable them to	e learn to talk with others	5.		
Ans.	(c)				
110.	Fill in the blank with t	he most appropriate wo	rd given in the options :		
	The child prefers ro	oom with c	eilings.		
	(a) tall	(b) long	(c) higher	(d) high	
Ans.	(d)				
		<u>Co</u>	<u>mputer</u>		
111.	Which of the following	ng is used by ALU to stor	re the intermediate result	?	
	(a) Stack	(b) Heap	(c) Register	(d) Accumulator	
Ans.	(d)				
112.	To fetch data from th	e secondary memory wh	ich one of the following	register is used	
	(a) MAR	(b) PC	(c) IR	(d) MBR	
Ans.	(a)				
113.	The binary multiplicat	tion 00*11 will give			
	(a) 11	(b) 00	(c) 01	(d) 10	
Ans.	(b)				
114.	Consider a computer system with speed of 10^6 instructions per second. A program P, having $2n^2$ steps is run on this system, where n is the input size. If n = 10000, what is the execution time for P?			I. A program P, having $2n^2$ steps is run aution time for P?	
	(a) 2 seconds	(b) 20 seconds	(c) 100 seconds	(d) 200 seconds	
Ans.	(d)				
115.	One terabyte (1 TB)	= GB and one l	ExaByte $(1 \text{ EB}) =$	_GB.	
	(a) 2^{10} GB, 2^{16} GB	(b) 2^{10} GB, 2^{20} GB	(c) 2^{10} GB, 2^{24} GB	(d) 2^{10} GB, 2^{30} GB	
Ans.	(d)				
116.	The Cache Memory	is more effective becaus	eof		
	(a) Memory localizati	on(b) Locality of referen	nce(c) Memory size	(d) None of the mentioned	
Ans.	(b)				

INF	PS CLASSES	[20]	web. : inpsclasses.com	
117.	Which of the following is the fastest means of momory access of CPU?				
	(a) Register	(b) Cache	(c) Main Memory	(d) Stack	
Ans.	(a)				
118.	The process when processor fetch or decode another instruction during the execution of current instruction is called				
	(a) Supercomputing	(b) Pipelining	(c) Cloud Computing	(d) Grid Computing	
Ans.	(b)				
119.	The number $(2217)_8$ is equivalent to				
	(a) (608) ₁₆	(b) (028F) ₁₆	(c) (048F) ₁₆	(d) (2297) ₁₀	
Ans.	(c)				
120.	To access the I/O device the status flags is continuously checked in				
	(a) Program controlled I/O		(b) Memory mapped I/O		
	(c) I/O mapped		(d) None of the above		
Ans.	(a)				