

(a) Circle $x^2 + y^2 = 1$ (b) The x-axis (c) The y-axis (d) The line x + y = 1

07. The five-digit number divisible by 3 is to be formed using numbers 0, 1, 2, 3, 4 and 5 without repetitions. The total number of ways this can be done is

- **08.** Given 5 different green dyes, 4 different blue dyes and 3 different red dyes, the number of combinations of dyes which can be chosen taking at least 1 green and 1 blue dye is
 - (a) 3600 (b) 3720 (c) 3800 (d) 3500
- **09.** The total number of terms in the expansion of $(x + a)^{100} + (x a)^{100}$ after simplification is
 - (a) 50 (b) 202 (c) 51 (d) 62

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10.	The minimum value of	$f 4^{x} + 4^{1-x}, x \in \mathbb{R}, is$		
	(a) 2	(b) 4	(c) 1	(d) 0
11.	The coordinates of th	e foot of perpendiculars	from the point $(2, 3)$ on	the line $y = 3x + 4$ is given by
	$(a)\left(\frac{37}{10},\frac{-1}{10}\right)$	$(b)\left(\frac{-1}{10},\frac{37}{10}\right)$	$(c)\left(\frac{10}{37},-10\right)$	$(d)\left(\frac{2}{3},\frac{-1}{3}\right)$
12.	Equations of diagona	ls of the square formed	by the line $x = 0$, $y = 0$, $z = 0$	x = 1 and $y = 1$ are
	(a) $y = x, y + x = 1$	(b) $y = x, y + x = 2$	(c) $2y = x$, $y + x = 1/3$	3 (d) $y = 2x, y + 2x = 1$
13.	median is of length 3a	is:		ertices of an equilateral triangle whose
	(a) $x^2 + y^2 = 9a^2$	(b) $x^2 + y^2 = 16a^2$	(c) $x^2 + y^2 = 4a^2$	(d) $x^2 + y^2 = a^2$
14.	The locus of a point f	or which $y = 0$, $z = 0$ is:		
	(a) Equation of X-axis	s (b) Equation of Y-axis	(c) Equation of Z-axis	(d) None of these
15.	In an A.P. the p th term	$f(p+q)^{th}$ terms is q and the $(p+q)^{th}$ terms	rm is 0. Then the q th terr	n is
	(a) –q	(b) p	(c) p + q	$(\mathbf{d})\mathbf{p}-\mathbf{q}$
16.	Let $f(x) = x - [x]; x$	\in R,[] denotes the grea	test integer function, the	en f $\left(\frac{1}{2}\right)$ is:
	(a) $\frac{3}{2}$	(b) 1	(c) 0	(d) –1
17.	The standard deviation would be	on of some temperature	data in °C is 5. If the dat	a were converted into °F, the variance
	(a) 81	(b) 57	(c) 36	(d) 25
18.	Three numbers are ch	osen from 1 to 20. Find	the probability that they	are not consecutive
	(a) $\frac{186}{190}$	(b) $\frac{187}{190}$	(c) $\frac{188}{190}$	(d) $\frac{18}{\frac{20}{3}C}$
19.	The probability that a probability 0.2, then,		A and B occurs is 0.6. I	f A and B occurs simultaneously with
	(a) 0.4	(b) 0.8	(c) 1.2	(d) 1.6
20.	The maximum numbe	er of equivalence relation	is on the set $A = \{1, 2, 3\}$	} are
	(a) 1	(b) 2	(c) 3	(d) 5
21.	If the set A contains 3 mappings from A to B		3 contains 6 elements, t	hen the number of one-one and onto
	(a) 720	(b) 120	(c) 0	(d) None of these

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22.	If $\cos^{-1}\alpha + \cos^{-1}\beta + \frac{1}{2}$	$\cos^{-1}\gamma = 3\pi$, then $\alpha(\beta)$	$+\gamma)+\beta(\gamma+\alpha)+\gamma(\alpha+\beta)$	$-\beta$) equals
	(a) 0	(b) 1	(c) 6	(d) 12
23.	If A is square matrix s	uch that $A^2 = I$, then (A	$(-I)^{3} + (A - I)^{3} - 7A$ is	equal to
	(a) A	(b) I – A	(c) I + A	(d) 3A
24.	Let $f(t) = \begin{vmatrix} \cos t & t \\ 2\sin t & t \\ \sin t & t \end{vmatrix}$	$\begin{vmatrix} 1 \\ 2t \\ t \end{vmatrix}, \text{ then } \lim_{t \to 0} \frac{f(t)}{t^2}$	is equal to	
	(a) 0	(b) –1	(c) 2	(d) 3
25.	If x, y, z are al differen	tt from zero and $\begin{vmatrix} 1 + x \\ 1 \\ 1 \end{vmatrix}$	$\begin{vmatrix} 1 & 1 \\ 1 & 1 \\ 1 & 1+z \end{vmatrix} = 0, \text{ then the v}$	value of $x^{-1} + y^{-1} + z^{-1}$ is
	(a) xyz	(b) $x^{-1}y^{-1}z^{-1}$	(c) -x - y - z	(d) –1
26.	If $f(x) = x^2 \sin \frac{1}{x}$, where $x = x^2 \sin \frac{1}{x}$	here $x \neq 0$, then the value	the function $f_{at} x =$	O, so that the function is continuous at
	x = 0, is			
	(a) 0	(b) –1	(c) 1	(d) None of these
27.	Maximum value of $\left(\frac{1}{2}\right)$			
	(a) e	(b) e ^e	(c) $e^{\frac{1}{e}}$	$(d)\left(\frac{1}{e}\right)^{\frac{1}{e}}$
28.	$\int \frac{\cos 2x - \cos 2\theta}{\cos x - \cos \theta} dx \ $	equal to:		
	(a) $2(\sin x + x \cos \theta)$	+ C	(b) $2(\sin x - x\cos\theta)$)+C
	(c) $2(\sin x + 2x \cos \theta)$))+C	(d) $2(\sin x - 2x\cos \theta)$	Θ) + C
29.	The degree of the diffe	erential equation $\left[1 + \left(\frac{d}{d}\right)\right]$	$\left.\frac{y}{x}\right)^2\right]^{\frac{3}{2}} = \frac{d^2y}{dx^2}$ is :	
	(a) 4	(b) $\frac{3}{2}$	(c) Not defined	(d) 2

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30.	The solution of th	the differential equation $\frac{d}{dt}$	$\frac{y}{x} = e^{x-y} + x^2 e^{-y}$ is:	
	(a) $y = e^{x-y} - x^2 e^{x-y}$	$e^{-y}+c$ (b) $e^{y}-e^{-y}$	$e^{x} = \frac{x^{3}}{3} + c$ (c) $e^{x} + e^{y}$	$=\frac{x^{3}}{3}+c$ (d) $e^{x}-e^{y}=\frac{x^{3}}{3}+c$
31.	For any vector \vec{a}	, the value of $\left(\vec{a} \times \hat{i}\right)^2 + \left(\vec{a} \times \hat{i}\right)^2$	$\left(\vec{a}+\hat{j}\right)^2+\left(\vec{a}+\hat{k}\right)^2$ is equa	lto
	(a) \vec{a}^2	(b) $\overrightarrow{3a}^2$	(c) $\overrightarrow{4a}^2$	(d) $\overrightarrow{2a}^2$
32.	Number of vector	rs of unit length perpend	icular to the vectors $\vec{a} = 2$	$2\hat{i} + \hat{j} + 2\hat{k}$ and $b = \hat{j} + \hat{k}$ is,
	(a) one	(b) two	(c) three	(d) infinite
33.	The reflection of	the point (α, β, γ) in the	xy-plane is:	
	(a) $(\alpha,\beta,0)$	(b) $(0,0,\gamma)$	(c) $(-\alpha, -\beta, \gamma)$	(d) $(\alpha, \beta, -\gamma)$
34.	The locus represe	ented by $xy + yz = 0$ is		
	(a) A pair of perp	endicular lines	(b) A pair of paralle	lines
	(c) A pair of paral	llel planes	(d) A pair of perpen	ndicular planes
35.		, B and C fire at a target espectively. The probabi		heir probabilities of hitting the target are
	(a) 0.024	(b) 0.188	(d) 0.336	(d) 0.452
36.		eir making a common err		rectly are $1/3$ and $1/4$ respectively. If the the same answer, then the probability of
	(a) 1/12	(b) 1/40	(c) 13/120	(d) 10/13
37.	If $a_n = \alpha^n - \beta^n a$	nd α,β are the roots of	the equation $x^2 - 6x - 2$	= 0, then find the value of $\frac{a_{10} - 2a_8}{3a_9}$
	(a) 2	(b) –2	(c) 3	(d) –3
38.	-	-	0 where a, b, c are obtain	ned by rolling the dice thrice. What is the
		ne equation has equal roc		
	(a) 5/216	(b) 1/72	(c) 1/36	(d) 1/216
39.	Find the value of	$I = \int_{-1}^{1} x^2 \cdot e^{[x^3]} dx$, where	e([] denotes the greatest i	nteger function)
	(a) $\frac{1}{3} - \frac{1}{3e}$	(b) $\frac{1}{3} + \frac{1}{3e}$	(c) $\frac{1}{3e} - \frac{1}{2}$	(d) 2
40.	Find the number	of points, where $f(x) = $	$2x+1 -3 x+2 + x^{2}+$	x-2 is non differentiable at
	(a) 2	(b) 3	(c) 4	(d) 0
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41.	Find the number of so	lutions of the equation 4	$(x-1) = \log_2(x-3)$	
	(a) 0	(b) 1	(c) 2	(d) 4
42.	Minimum value of a^{a^x}	$+\frac{a}{a^{a^{x}}}(a>O;a,x\in R)$		
	(a) $2\sqrt{a}$	(b) $\sqrt{2a}$	(c) $2\sqrt{2}a$	(d) $2\sqrt{2a}$
43.	If 'x' is a number divid by '8'	led by '4', leaves the ren	nainder '3', then find the	remainder if $(2020 + x)^{2022}$ is divided
	(a) 1	(b) 2	(c) 3	(d) 4
44.	If $x^3 - 2x^2 + 2x - 1 =$	0 has roots (α, β, γ) th	then find $\left(\alpha^{162} + \beta^{162} + \gamma^{162}\right)$	62)
	(a) 1	(b) 2	(c) 3	(d) 4
45.	Find the area bounded	d by the curve $y = x - 1 $	-2 with X-axis	
	(a) 1	(b) 2	(c) 3	(d) 4
46.	If a triangle is inscribe	d in a circle of radius r, th	en which of the followin	ng triangle can have maximum area:
	(a) Equilateral triangle	with height $\frac{2r}{3}$	(b) Right angled triang	gle with side 2r, r
	(c) Equilateral triangle	e with side $\sqrt{3r}$	(d) Isosceles triangle	with base 2r
47.	From the point A(3, 2 segment is a circle, the		boint on the circle $x^2 + y$	$y^2 = 1$. If locus of midpoint of this line
	(a) $\frac{\sqrt{13}}{2}$	(b) $\frac{1}{2}$	(c) $\frac{\sqrt{11}}{2}$	(d) $\frac{1}{4}$
48.	If slope of common ta	angent to curves $4x^2 + 9$	$y^2 = 36$ and $4x^2 + 4y^2$	= 31 is m, then m ² is equal to:
	(a) 3	(b) 6	(c) 9	(d) 5
49.	If A and B are matrice	es of same order, then (AB'-BA') is a	
	(a) Skew-symmetric r	natrix (b) Null matrix	x (c) Symmetric	matrix (d) Unit matrix
50.	The set $(A \cap B')' \cup ($	$\mathbf{B} \cap \mathbf{C}$) is equal to		
	(a) $(A' \cup B \cup C)$	(b) $(A \cup B)$	(c) $(A' \cup C')$	$(d) \left(A' \cap B \right)$

11	NPS CLASSES	[6]		web. : inpsclasses.com
51.	Choose the most appropriate op	ptions to fill in the blar	ıks as follows.	
	Every human being, after the first	st few days of his life, i	s a product of tw	o factors:
	on the one hand, there is his including	endowment; and	d on the other ha	nd, there is the effect of environment,
	(a) constitutional; weather	(b) Congenita	l; education	
	(c) Personal; climate	(d) Economic	; learning	
52.	Choose the most appropriate op	tions to fill in the blan	ıks as follows.	
	The of public awareness	s about the disease ha	s led to its wides	pread
	(a) Dearth, incidence (b) Pauc	city, occurrence (c) La	ack, happening	(d) Scarcity, frequency
53.	In the question below, a word ' corresponding to the sentence in			our different ways. Choose the option ect or inappropriate:
	File			
	(a) You will find the paper in the	file under the chair.	(b) I need to fi	le an insurance claim.
	(c) The cadets were marching in	a single file.	(d) When the p	parade was on, a soldier broke the file.
54.	In the following sentence, parts completing the sentence are ind			h each sentence four different ways of
	Sentence: Police notor	ous gangster after re	lentless chase tha	at for 3 weeks.
	(a) Arrest, reigned (b) nabl	bed, lasted (c) St	natched, persist	(d) contempt, endured
55.	In the following sentence, parts completing the sentence are ind			n each sentence, four different ways of
	Sentence: An interview is a go	ood chance to	how candidate	es difficult situations.
	(a) Discuss, improved (b) Asse	ess, addressed (c) An	nalyze, tackling	(d) Evaluate, approach
56.	In the question below, a word ' corresponding to the sentence i			our different ways. Choose the option ect or inappropriate:
I.	I must run fast to catch up with h	im.		
II.	Our team scored a goal against t	he run of play.		
III.	You can't run over him like that			
IV.	The newly released book is enjo	ying a popular run.		
	(a) I and II only (b) II ar	d IV Only (c) II	l only	(d) IV Only
57.	The word 'Concurrence' simila	r in meaning to the fo	llowing words ex	cept:
	(a) Agreement (b) Acco	ord (c) Co	onsensus	(d) Harmony
58.	Select the word from the choice	s given below that is n	nost similar in me	aning to the word 'SOLITUDE'.
	(a) Musical Composition	(b) Aloneness (c) Tr	rue statement	(d) Single-mindedness
59.	Which is the antonym of the wor	d 'EXODUS'		
	(a) Influx (b) Retu	rn (c) H	ome Coming	(d) Restoration
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60.	Choose the alternative	e from the following opt	tions, which can be subst	ituted for the given words/sentence.
	'A style in which a v	vriter makes display o	of his knowledge'	
	(a) Ornate	(b) Pedantic	(c)Artificial	(d) Showy
61.		aced on a plain paper. H central and adjacent coi	•	me size can be placed around it so that
	(a) 4	(b) 7	(c) 3	(d) 6
62.	The missing term in the	he sequence ADVENT	URE, DVENTURE, DV	ENTUR,?, VENTU
	(a) DVENT	(b) VENTURE	(c) VENTUR	(d) DVENTU
63.	Choose the ODD ON	IE OUT:		
	(a) Rice	(b) Maize	(c) Jower	(d) Wheat
64.	If DRIVER = 12. PE	EDESTRIAN= 20, AC	CIDENT = 16, then CA	AR = ?
	(a) 3	(b) 6	(c) 8	(d) 0
65.	If you are facing nort	h-cast and move 10 m f	forward, turn left and mo	ove 7.5 m, then you are:
	(a) North of your initia	al position	(b) South of your initia	al position
	(c) East of your initial	position	(d) West of your initia	lposition
66.	A clock is so placed the hand point at 01:30 p.		hand point towards nort	h-east. In which direction does its hour
	(a) North	(b) South	(c) East	(d) West
67.	0		deep with slippery walls og will have to take to c	s. Every time the frog jumps up 60 cm, ome out of the well?
	(a) 29	(b) 30	(c) 25	(d) 26
68.	In how many ways a c	cricketer can hit a centur	ry if he hits only fours and	d sixes?
	(a) 24	(b) 12	(c) 9	(d) 8
69.	How many times are	the hands of a clock at r	ight angles in a day?	
	(a) 24	(b) 48	(c) 22	(d) 44
70.	Find the missing term	n in the series: 2, 15, 4, 1	2, 6, 7,?	
	(a) 8, 8	(b) 8, 0	(c) 3, 8	(d) 4, 8
71.	A is B's sister, C is B'	s mother, D is C's fathe	er, E is D's mother. Then	how is A related to D?
	(a) Grandmother	(b) Grandmother	(c) Daughter	(d) Grand daughter
72.	Find the wrong numb	er in the series given be	low: 5, 18, 34, 54, 79, 1	10, 158
	(a) 34	(b) 54	(c) 18	(d) 158
73.	Find the wrong numb	per in the series given be	low: 5, 6, 14, 45, 184, 9	20, 5556
	(a) 5	(b) 6	(c) 920	(d) 5556
74.	Win is related to Cor	npetition in the same w	ay as invention is related	to:
	(a) Product	(b) Discovery	(c) Trial	(d) Laboratory
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75.	Pointing towards a g is Sarita related to th		said. "She is. the mot	her of Neha whose father is my son". How
	(a) Mother	(b) Mother-in-law	(c) Aunt	(d) Sister
76.	If 100 cats kill 100 r	nice in 100 days, then 4	cats would kill 4 mic	ce in how many days?
	(a) 1 day	(b) 4 days	(c) 40 days	(d) 100 days
77.		can fill a tank in 12 minute n time B should be closed		pectively. If both pipes are opened together, filled in 9 minutes.
	(a) 2 minutes	(b) 4 minutes	(c) 8 minutes	(d) 12 minutes
78.	If Mathematics : Log	gic : : Science : ?		
	(a) Facts	(b) Scientist	(c) Experiment	(d) Laboratory
79.	Five children take p play?	art in a tournament. Eac	ch one has to play eve	ery other one. How many games must they
	(a) 8	(b) 10	(c) 24	(d) 30
80.				ls. If he packs 3, 4, 5 or 6 in a parcel, he is hat is the number of boxes, he may have to
	(a) 106	(b) 301	(c) 309	(d) 400
81.	Which of the following	ng statements best expla	ains a process?	
	(a) It is a program		(b) It is a program	n in execution
	(c) It is an instance	of a program in execution	on (d) It is a program	n that uses system calls
82.	Files that store data	in the same format as us	sed in the program an	re called.
	(a) Binary files	(b) Source file	(c) Text files	(d) Core Files
83.	Mach List-I and Lis	st -II and select correct g	group of matching.	
	List - I	List	- 11	
	1. DOS	P. Sun Micro		
	2. P4	-	t Corporation	
	 Java PC 	R. IBM S. Intel Corp	oration	
	(a) $(1, Q), (2, S), (3)$		(b) $(1, Q), (2, R)$	(3, S), (4, P)
	(c) (1, S), (2, P), (3)		(d) (1, R), (2, P	
84.	Which of the followi	ing languages is case sens	sitive?	
	(a) FORTRAN	(b) BASIC	(c) C	(d) None
85.	Kernel is:			
	(a) Considered as th	e critical part of OS		
	(b) The software wh	ich monitors the OS		
	(c) The set of primiti	ve functions upon which	rest of the OS function	ons are built
	(d) None			
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86.	$If(123)_5 = (A3)_B, th$	en the number of	possible	e values of A is:	
	(a) 4	(b) 1		(c) 3	(d) 2
87.	The three main com	ponents of a digita	al compu	ter system are:	
	(a) Memory, I / O, I	OMA		(b) ALU, CPU, Men	nory
	(c) Memory, CPU,	I/O		(d) Control Circuits,	ALU, Registers
88.	The Boolean expres	sion AB+AB'+	A'C + A	AC is unaffected by the	evalue of the Boolean variable:
	(a) A	(b) B		(c) C	(d) none
89.	The method of commat a time is called:	nunication in whic	ch transn	nission takes place in bot	th the direction, but only in one direction
	(a) Simplex	(b) Four wire	circuit	(c) Full duplex	(d) Half duplex
90.	The Topology with	the highest reliabi	lity is:		
	(a) Bus Topology	(b) Star Topo	ology	(c) Ring Topology	(d) Mesh Topology
91.	C is a:				
	(a) High level langua	ıge		(b) Low leve	l language
	(c) High Level langu	age with some lo	w level	features (d) Low level	l language with some high level features
92.	Match List-I and Lis	st-II given below :	and selec	et the correct answer fro	om the given options.
	List – I			List - II	
	1. Azim Premj	i	P.	Microsoft	
	2. Narayana M	/lurthy	Q.	Wipro	
	3. Bill Gates.		R.	Satyam	
	4. Ramalinga F	Laju	S.	Infosys	
	(a) (1, S), (2, Q, (3	, P), (4, R)	(b) (1	, Q), (2, S), (3, P), (4,	R)
	(c) (1, P), (2, R), (3)	s, S), (4, Q)	(d) (1	, S), (2, P), (3, Q), (4,	R)
93.	The minimum numb	er of temporary v	variables	needed to swap the cor	ntents of two variables is:
	(a) 1	(b) 2		(c) 3	(d) 0
94.	Binary equivalent of) ₁₀ is:	
	(a) (0.0111) ₂	(b) (0.1011) ₂		(c) $(0.1100)_2$	(d) $(0.1010)_2$
95.	An important aspect	in coding is:			
	(a) Readability			(b) To use as small n	nemory space as possible
	(c) Productivity			(d) Brevity	
96.	C++ was originally	developed by			
	(a) Clocksin and Me	ellish (b) D	onald E.	Knuth (c) Sir Richa	rd Hadlee (d) Bjarne Stroustrup
97.	Who created the first	st free e-mail serv	vice on th	ne internet:	
	(a) B.W. Kernighan	(b) Bill gates		(c) N. Karmakar	(d) Sabeer Bhatia

98.	In general for	a comput	er which of the	[10 followin	g represents the	memorie	s in incre		e b. : inp s rder of th	
	(a) Register <	-			(b) RAM $<$ Ca			-		ion ouplion
	(c) Register <				(d) Cache $<$ R			-		
99.	In IPv4, the ler				(.,			8		
	(a) 16 bits	-	(b) 32 bits		(c) 48 bits		(d) 64	bits		
100.				ges from	a mail client to	a mail sei		c i i s		
	(a) FTP		(b) IP	0	(c) SMTP		(d) TC	P/IP		
	(u) 1 11		(0) 11				(u) 10	, , II		
•				Ans	swer Key					
)1. ()	02. () 03. ()	04. ()	05. () 06. ()		<u>swer Key</u> 08. (b) 09. ()	10. ()	11. ()	12. ()	13. ()	14. ()
			05. () 06. () 19. () 20. ()	07.()			11. () 25. ()	12. () 26. ()	13. () 27. ()	14. () 28. ()
5. ()	16. () 17. ()	18. ()	, in the second s	07. () 21. ()	08. (b) 09. ()					0
.5. () 29. ()	16. () 17. () 30. () 31. ()	18. () 32. ()	19.() 20.()	07. () 21. () 35. ()	08. (b) 09. () 22. () 23. () 36. () 37. ()	24. () 38. ()	25. ()	26. () 40. ()	27. ()	28. ()
5. () 29. () 13. ()	16. () 17. () 30. () 31. () 44. () 45. ()	18. () 32. () 46. ()	19. () 20. () 33. () 34. ()	07. () 21. () 35. () 49. ()	08. (b) 09. () 22. () 23. () 36. () 37. ()	24. () 38. () 52. ()	25. () 39. ()	26. () 40. () 54. ()	27. () 41. ()	28. () 42. ()
15. () 29. () 13. () 57. ()	16. () 17. () 30. () 31. () 44. () 45. () 58. () 59. ()	18. () 32. () 46. () 60. ()	19. () 20. () 33. () 34. () 47. () 48. ()	07. () 21. () 35. () 49. () 63. ()	08. (b) 09. () 22. () 23. () 36. () 37. () 50. () 51. ()	24. () 38. () 52. () 66. ()	25. () 39. () 53. ()	26. () 40. () 54. () 68. ()	27. () 41. () 55. ()	28. () 42. () 56. ()
01. () 15. () 29. () 43. () 57. () 71. () 85. ()	16. () 17. () 30. () 31. () 44. () 45. () 58. () 59. () 72. () 73. ()	18. () 32. () 46. () 60. () 74. ()	19. () 20. () 33. () 34. () 47. () 48. () 61. () 62. ()	07. () 21. () 35. () 49. () 63. () 77. ()	08. (b) 09. () 22. () 23. () 36. () 37. () 50. () 51. () 64. () 65. ()	24. () 38. () 52. () 66. () 80. ()	25. () 39. () 53. () 67. ()	26. () 40. () 54. () 68. () 82. ()	27. () 41. () 55. () 69. ()	28. () 42. () 56. () 70. ()