### <u>Class – 10th</u>

#### **SAMPLE PAPER**

### SECTION - A (REASONING)

1.	lf seve month	nth day of a mo 1?	nth is th	ree days earlier	than Frid	day, what day wi	ill it be o	n nineteenth day of the
	(a)	Sunday	(b)	Monday	(c)	Wednesday	(d)	Friday
2.	Six bo covers Which	oks P, Q, R, S, T 5. Only S and U two books are c	Γ and U are new old Gaze	are placed side books and the tteers with blue	e by side rest are covers?	e. R, Q, T have t e old. P, R, S are	olue cov e law re	ers and other books have red ports, the rest are Gazetteers.
	(a)	Q and R	(b)	Q and T	(c)	Q and U	(d)	T and U
3.	A grou one ca	up of 1200 perso uptain. The numb	ons consi per of ca	ists of captains a ptains in group i	and sold is:	ier is travelling i	n a train	. For every 15 soldiers there is
	(a)	85	(b)	80	(c)	75	(d)	70
4.	Pointir Shilpa	ng to Kapil, Shilp ?	ba said, '	"His mother's b	rother is	s the father of m	ny son A	shish." How is Kapil related to
	(a)	Sister-in-law	(b)	Nephew	(c)	Niece	(d)	Aunt
5.	A, B,, ( either	C, D, E and F are of the neighbori	e sitting ing seats	around a round s of E. Who is op	table. A posite to	is between E ar o B?	nd F, E is	s opposite to D, and C is not in
	(a)	с	(b)	D	(c)	F	(d)	A
6.	Which	word has the sa	ime rela	tion with the thi	rd word	, as the first two	words h	have between them?
	Knife :	Cut : : Axe : ?						
	(a)	Lacerate	(b)	Chop	(c)	Slice	(d)	Sever
7.	l start my rig beginr	from my home ght and go 1 kn hing?	and go 2 n again.	2 km straight. Th If I am north-v	hen, I tu west fro	rn towards my r m my house, th	ight and nen in w	l go 1 km. I turn again towards hich direction did I go in the
	(a)	North	(b)	South	(c)	East	(d)	West
8.	0, 4, 6,	, 3, 7, 9, 6,?	12.					
	(a)	8	(b)	10	(c)	11	(d)	14
9.	Find a	wrong number i	in the se	ries:				
	7, 28,	63, 124, 215, 34	2, 511					

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	(a)	7	(b)	28		(c)	124	(d)	215		
10.	In the	following questi	ons, Cho	ose the	missing	term ou	t of the given al	ternativ	es,		
	A, CD, GHI,?, UVWXY										
	(a)	LMNO	(b)	MNOL		(c)	NOPQ	(d)	MNOP		
11.	Directi of the	on: In the follov alternative belov	ving letto w it. Cho	er series oose the	s, some o correct	of the le alternati	tters are missir ive.	ng which	are given in t	hat order as one	
	c bł	oa cab ac _	ab	ас							
	(a)	abcbc	(b)	acbcb		(c)	babcc	(d)	bcacb		
12.	Find th	e missing chara	cter in th	ne follow	ving que	stion.			?	3	
	(a)	4		(b)	5		4	4		<b>→</b> 11	
	(c)	15		(d)	13			Ĭ			
13.	How m	nany times in a d	ay, the t	wo han	ds of a cl	lock coir	ncide?		7´ ¥ 19	7	
	(a)	11	(b)	12		(c)	22	(d)	24		
14.	The fol dots pl figures as to r the sa answe	llowing question laced in it. This f marked (a), (b) nake possible th me conditions a r figure in this.	a, there is figure is f , (c) and ne placer as in the	s a figur followed (d); onl ment of e figure	e (X) wit d by four y one of the dot (X). Fin	h one or other a which i or dot ad the c	more nswer s such (X) satisfy orrect (a)		(b)		
15.	Directi	on: Count the nu	umber o	f cubes i	in the fo	llowing f	igure:	4			
	(a)	45		(b)	50			N.N.			
	(c)	46		(d)	49						
16.	6, 11, 2	21, 36, 56, (?)	<i>(</i> 1.)							÷.	
47	(a)	42	(b)	51	c	(c)	81	(d)	91 =7		
17.	Directi a way t	on: A fig. (X), is § that fig.(X) is em	given, fo bedded	in one c	of them.	omplex Choose	figures in such that one	(X)			
								(a)			

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#### Class X | Sample Paper

18. Direction: In the following question, find out which of the following answer figure (a), (b), (c) and (d) completes the figure matrix



19. Direction: In the following question, find one correct answer figurer from four alternatives which resembles the pattern forms when the transparent sheet design folded along the dotted line.





20. Direction: In the following, three figures (X), (Y), (Z) showing a sequence of folding a paper are given, The figure depicts the cut, made on the folded paper. Select the answer from the alternatives, which would most closely resemble the third figure, when it is unfolded



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Class X | Sample Paper

25.	The val	ue of $\sum_{k=1}^{15} (2k-3)$	3) is					
	(a)	390	(b)	195	(c)	210	(d)	420
26.	The are 3. Wha	ea of a triangle is t will be the thir	s 5 squar d vertex	e units, two of i ?	ts vertic	es are (2, 1) and	(3, –2).	The third vertex lies on y = x +
	(a)	$\left(\frac{5}{3},\frac{13}{3}\right)$	(b)	$\left(\frac{7}{2},\frac{13}{2}\right)$	(c)	(3, 4)	(d)	(1, 2)
27.	In the produc	adjacent figure ed in E and F. Th	e, BA ar ien ∠Al	nd BC are proc ED + $\angle$ CFD is _	luced to	meet CD and	AD	A 50°
	(a)	80°		(b)	50°		E	90°
	(c)	40 <sup>°</sup>		(d)	160°			
28.	A sphe volume	ere is placed in e of sphere if	a cone it touch	of height 9 cm es lateral surfa	i as sho ace and	wn in figure. Th base of cone	is	60° 9 cm
	(a)	$3 \pi \text{ cm}^3$		(b)	12 π cr	n <sup>3</sup>	La	
	(c)	$24 \pi \mathrm{cm}^3$		(d)	36 π cm			
29.	If tan $\theta$	+ sin $\theta$ = m and	l tan θ	$\cdot \sin \theta = n, then$	$m^2 - n^2$	equals	·	
	(a)	$\sqrt[4]{\frac{m}{n}}$	(b)	$\sqrt[4]{\frac{n}{m}}$	(c)	4√mn	(d)	4 mn
30.	By selli	ng an article for	Rs 480 a	person lost 20%	%. For wł	nat amount shou	ild he se	ll it to make a profit of 20% ?
	(a)	Rs 800	(b)	Rs 760	(c)	Rs 720	(d)	Rs 680
31.	Point P	divides the line	segmen	t joining the poi	nts A (–1	., 3) and B(9, 8) s	such tha	t $\frac{AP}{BP} = \frac{k}{1}$ . If P lies on the line
	x — y + :	2 = 0, then find t	he value	e of k.				
	(a)	5/3	(b)	1/3	(c)	1/2	(d)	2/3
32.	In a mo What is	orning walk, thre s the minimum c	e persor listance	ns step off toget each should wal	her, thei k so that	r steps measure : he can cover di	80 cm, 8 stance ir	85 cm and 90 cm respectively. n complete steps?
	(a)	122 m 40 cm	(b)	120 m	(c)	121 m 42 cm	(d)	129 m 50 cm
33.	If $\alpha$ and	d $\beta$ are the zero	oes of th	e polynomial f(x	) = x <sup>2</sup> – p	x + q, then find t	the value	e of $\alpha^2 + \beta^2$ .
	(a)	p <sup>2</sup> + q	(b)	p <sup>2</sup> - 2q	(c)	$p^2 + q^2$	(d)	p <sup>2</sup> – 5q

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34.	Solve:	$\frac{x}{a} + \frac{y}{b} = a + b a$	and $\frac{x}{a^2}$ +	$\frac{y}{b^2} = 2$								
	(a)	$x = a^2$ and $y = b$	2		(b)	x = 1 ar	nd y = ab					
	(c)	$x = a and y = b^2$	2		(d)	$x = a^2 a$	nd y = b					
35.	Solve :	$x = \frac{1}{2 - \frac{1}{1$	, x ≠  · x	2								
	(a)	x = 2	(b)	x = 3		(c)	x = 4		(d)	x = 1		
36.	If m <sup>th</sup> t	erm of an A.P. is	$s = \frac{1}{n}$ and	n <sup>th</sup> term	is $\frac{1}{m}$ , t	then finc	l its (mn) <sup>th</sup> te	erm :				
	(a)	2	(b)	-1		(c)	0		(d)	1		
37.	Three s big sph	sphere whose ra nere.	ndii is 3 c	:m, 4 cm	and 5 c	m are m	elted to for	m a b	oig sphe	re. Then wh	at is the	radius of
	(a)	6 cm	(b)	7 cm		(c)	8 cm		(d)	9 cm		
38.	The ler	ngth of the diago	onals of a	a rhombi	us are 16	5 cm and	l 12 cm, the	n the	length	of the sides	of the rh	ombus is
	(a)	9 cm	(b)	10 cm		(c)	8 cm		(d)	20 cm		
39.	In the g	given figure, find	the len	gth of V>	(, if WM	= 11 cm	and WV = 7	7 cm.			U	M
	(a)	8 cm		(b)	6 cm				W<		X	. )
	(c)	4 cm		(d)	2 cm						A	٥
40.	In the	given figure find	the leng	th of PQ	+ PS, if	PR = 5cr	n.			P	V K	×.
	(a)	5 cm		(b)	7 cm				9	$\langle \rangle$	S	
	(c)	9 cm	/	(d)	10 cm			/	- ( <sup>-</sup> a,	R		
				<u>SI</u>	ECTION	– C (S	<u>CIENCE)</u>					
41.	The un	wanted materia	ls or imp	ourities p	oresent i	n the or	e are called:					
	(a)	Mineral	(b)	Alloy		(c)	Gangue		(d)	Corrosion		
42.	Which	of the following	is an all	oy of me	ercury?							
	(a)	Brass	(b)	Solder		(c)	Amalgam		(d)	Cinnabar		

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43. \	Which	one of the follo	wing ho	rmones inh	ibits the grov	wth of a plant?		
(	(a)	Cytokinin	(b)	Auxin	(c)	Gibberellins	(d)	Abscisic acid
14. 1	The br	ain is covered b	y memb	ranes called	l:			
(	(a)	Pleura	(b)	Placenta	(c)	Meninges	(d)	Bladder
5. 1	The m	uscle of the iris	control	:he:				
(	(a)	Focal length o	f the eye	e-lens	(b)	Opening of th	e pupil	
(	(c)	Shape of the c	rystallin	e	(d)	Optic nerve		
6. I	In the	dispersion of wh	nite light	, which of t	he following	colour bends th	e least?	
(	(a)	Violet	(b)	Red (c	:) Blue	(d)	Greer	
7. \	What i	s the essential c	lifferend	e between	an AC genera	ator and a DC ge	nerator	
(	(a)	AC generator	has an e	lectromagn	et while a DO	C generator has I	permane	ent magnet.
(	(b)	DC generator	will gene	erate a high	er voltage.			
(	(c)	AC generator	will gene	erate a high	er voltage			
(	(d)	AC generator	has slips	rings while	the DC gene	erator has a com	mutator	(Split rings).
8. \	What i	s the main reas	on for u	sing a solen	oid instead o	of a straight wire	for proc	lucing magnetic field?
(	(a)	To concentrat solenoid.	e the m	nagnetic fiel	d produced	throughout the	wire to	flow through the core of t
(	(b)	To reduce the	space ta	aken up by t	he long wire	2.		
(	(c)	To ensure that	t magne	tic field stre	ngth is const	tant		
(	(d)	To reduce the	amount	of wires us	ed to produc	ce the same mag	netic fie	ld strength as a straight wire
9. \	Why d	o noble gases ex	xist as m	onoatomic	gases?			
(	(a)	They have low	melting	g point.				
(	(b)	They have hig	h boiling	; point.				
(	(c)	Their atoms ha	ave dup	et or octet	electrons arr	angements.		
(	(d)	The force of a	ttractior	ı between tl	neir atoms is	very weak.		
0. (	One m heated	nole of a hydro I catalyst. What	carbon could b	'X' reacted e formula of	completely f 'X'?	with one mole	of hydr	ogen gas in the presence o
(	(a)	$C_2H_6$	(b)	C₃H <sub>8</sub>	(c)	$C_{5}H_{10}$	(d)	C <sub>7</sub> H <sub>16</sub>

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<ul> <li>51. Which of the following is NOT true concerning photosynthesis in green plants?</li> <li>(a) Absorbs carbon dioxide (b) Releases oxygen</li> <li>(c) Occurs in the presence of light (d) Absorbs carbohydrates</li> <li>52. In humans what is the probability for the baby to be a baby boy?</li> <li>(a) 25% (b) 50% (c) 75% (d) 100%</li> <li>53. A student added dilute HCI to a test tube containing zinc granules. Which of the following observat correct?</li> <li>(A) Zinc surface became dull and black.</li> <li>(B) A gas was evolved which burnt with a pop sound.</li> <li>(C) The option remained colorless.</li> <li>(a) A and B (b) A and C (c) B and C (d) A, B and C</li> <li>54. Which of the following reactions are exothermic in nature?</li> <li>(A) Evaporation of water (B) Dissolution of sodium hydroxide in water</li> <li>(C) Dilution of sulphuric acid (D) Dissolution of animonium chloride in water.</li> <li>(E) Combustion of methane gas</li> <li>(a) (A), (D) and (E) (b) (b), (C) and (E) (c) (A), (B) and (D) (d) (A), (C) and (D)</li> <li>55. The oxide of which of the following element is not acidic?</li> <li>(a) Cl (b) S (c) N (d) Li</li> <li>56. Which of the following elements will form an acidic oxide?</li> <li>(a) An element with atomic number 7 (b) An element with atomic number 3</li> <li>(c) An element with atomic number 12 (d) An element with atomic number 19</li> </ul>	
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(A)Evaporation of water(B)Dissolution of sodium hydroxide in water(C)Dilution of sulphuric acid(D)Dissolution of ammonium chloride in water.(E)Combustion of methane gas(A), (D) and (E)(B), (C) and (E)(C)(A), (B) and (D)(d)(A), (C) and (D)5.The oxide of which of the following element is not acidic?(a)Cl(b)S(c)N(d)Li6.Which of the following elements will form an acidic oxide?(a)An element with atomic number 7(b)An element with atomic number 3(c)An element with atomic number 12(d)An element with atomic number 19	
(C)       Dilution of sulphuric acid       (D)       Dissolution of ammonium chloride in water.         (E)       Combustion of methane gas       (a)       (A), (D) and (E)       (b)       (B), (C) and (E)       (c)       (A), (B) and (D)       (d)       (A), (C) and (D)         5.       The oxide of which of the following element is not acidic?       (a)       Cl       (b)       S       (c)       N       (d)       Li         6.       Which of the following elements will form an acidic oxide?       (a)       An element with atomic number 7       (b)       An element with atomic number 3       (c)       An element with atomic number 12       (d)       An element with atomic number 19	
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(c) An element with atomic number 12 (d) An element with atomic number 19	
57. A particle moves towards a concave mirror of focal length 30 cm along its axis and with a constant spectrum cm/s. What is the speed of its image when the particle is at 90 cm from the mirror?	ed o
(a) 2 cm/s (b) 8 cm/s (c) 1 cm/s (d) 4 cm/s	
A person looks into the mirror by placing it close to the face was erected, laterally inverted and of the size. Then, the mirror must be	ie sar
(a) Plane (b) Concave (c) Convex (d) Plane or concave.	
9. The purpose of the glass cover on top of a box-type solar cooker is	
(a) Allow one to see the food being cooked (b) Allow more sunlight into the box readers in NTSE, NSTSE, Olympiads & CBSE IX-X Preparations	17)

					1000				
16.	С	1	7 A	18.	В	19.	А	20.	С
21.	С	2	2. B	23.	В	24.	D	25.	В
26.	В	2	7. C	28.	D	29.	С	30.	С
31.	D	3	2. A	33.	В	34.	А	35.	D
36.	D	3	7. A	38.	в	39.	С	40.	D
41.	С	4	2. C	43.	D	44.	С	45.	В
46.	В	4	7. D	48.	А	49.	С	50.	С
51.	D	5	2. B	53.	D	54.	В	55.	D
56.	А	5	7. C	58.	А	59.	D	60.	С

**ANSWER KEY** 

4.

9.

14.

В

B

С

В

C

3.

8.

13.

(d) Reduce heat loss by radiation.

5.

10.

15.

С

D

С

D

D

Class X | Sample Paper

60. The site of a hydroelectric plant should be chosen carefully because it

Prevent dust from entering the box

- Produces a large amount of carbon monoxide and carbon dioxide (a)
- (b) Produces a large amount of electricity
- (c) Affects the organisms of that region.

2.

7.

12.

В

D

С

(d) Is expensive.

(c)

1.

6.

11.

А

В

В