# <u>Class – 8th</u>

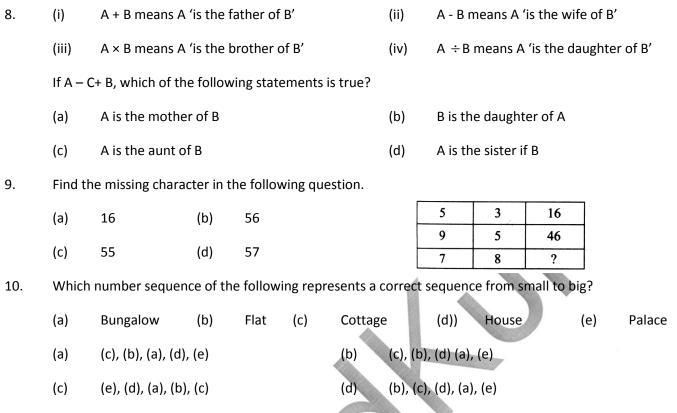
#### SAMPLE PAPER

# SECTION – A (REASONING)

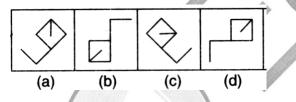
### Direction for Question 1 & 2: B, D, F, H, K, W,

M and T are sitting around a circle facing the centre. F is third to the left of D who is second to the left of H. B is fourth to the right of H. K is the third to the right of M who is not an immediate neighbor of F. T is not an immediate neighbor of B or D.

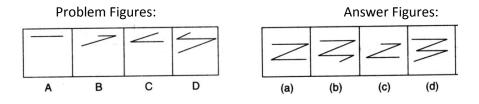
1.	Who is to the immediate right of T?											
	(a)	К	(b)	F	(c)	н	(d)	Data inadequate				
2.	Who is	second to the le	eft of B?			4						
	(a)	т	(b)	D	(c)	к	(d)	Data inadequate				
3.		is facing North on. Which directi			the clo	ckwise direction	and th	en 135 <sup>0</sup> in the anticlockwise				
	(a)	North	(b)	south	(c)	West	(d)	East				
4.	In the f	ollowing questic	on, one t	erm is wrong. Fi	nd out t	he wrong term.						
	225, 19	96, 169, 144, 121	, 80									
	(a)	80	(b)	121	(c)	169	(d)	196				
5.	Z, X, V,	T, R,?,?										
	(a)	о, к	(b)	Ν, Μ	(c)	P, N	(d)	M, N				
6.						missing which a	are give	n in that order as one of the				
		ncaabcca		e correct alterna	tive.							
					(-)	- h h -	( -1)					
	(a)	bacb	(b)	acba	(c)	abba	(d)	caba				
7.	Select f	from the given d	iagrams	, the one that illu	ustrates	the relationship	among	the given three classes:				
	Judge,	Thief, Criminal		$(\bigcirc)$								
				(a)		(b)						
	$(\bigcirc)$											
				(c)		(d)						



11. Out of the four figures (a), (b), (c), (d) given in each problem, three are similar in a certain way. However, one figure is not like the other three. Choose the figure which is different from the rest.



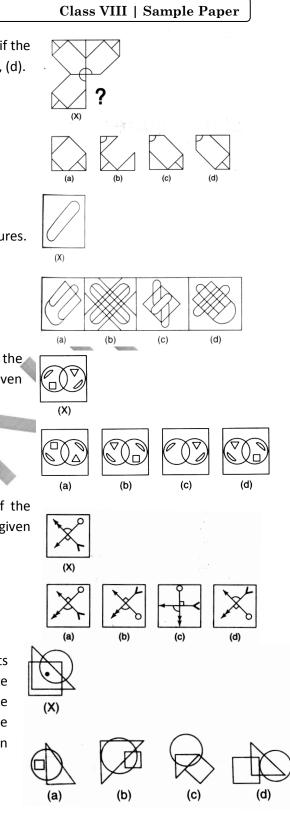
- 12. In a chess tournament each of six players will play every other player exactly once. How many matches will be played during the tournament?
  - (a) 36 (b) 30 (c) 15 (d) 12
- 13. Direction: The following problem contains four problem figures, marked A, B, C and D and four answer figures marked (a), (b), (c), (d). Select a figure from amongst the answer figures which will continue the same series as given in the problem figure.



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14. Direction: the following question completes the missing portion if the given pattern by selecting from the given alternatives (a), (b), (c), (d).

- 15. Figure (X) is embedded in any one of the four alternative figures. Find the figure that contains (X).
- In the following question, choose the correct mirror image of the figure (X) from amongst the alternatives (a), (b), (c) and (d). given along with it.
- In the following question, choose the correct water image of the figure (X) from amongst the four alternatives (a), (b),(c) and (d) given along with it.
- 18. In this question, there is a figure (X) with one or more dots placed in it. The figure is followed by four other answer figure marked (a), (b), (c) and (d); only one of which is such as to make possible the placement of the dot or dots satisfying the same condition as in the figure (X). Find the correct answer figure in case.
- 19. Two positions of a block are given below. When 2 is at the top, which number will be at the bottom?
  - (a) 1 (b) 2 (c) 3 (d) 4 (i) (ii)



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20		ow of girls, shilp positions, Shilpa	-					n the right. If they interchange here in the row .			
	(a)	25	(b)	26	(c)	30	(d)	28			
<u>SECTION – B (MATHEMATICS)</u>											
21.	What	should be addec	l to the	difference of –	$\frac{3}{20}$ and $\frac{2}{1}$	$\frac{28}{20}$ so as to get	the resul	$t \frac{13}{15}$ .			
	( <i>a</i> )	$\frac{47}{60}$	( <i>b</i> )	$\frac{59}{60}$	(c)	$\frac{86}{60}$	( <i>d</i> )	$\frac{86}{120}$			
22.	Find tl	he value of the f	ollowing	g expression $\left(\frac{2}{3}\right)$	$\left(\frac{25}{3}\right)^3 \times \left(\frac{9}{5}\right)^3$	$\Big)^3 \times \left(\frac{1}{5}\right)^2$ :					
	(a)	125	(b)	135	(c)	115	(d)	145			
23.	Simpli	fy: $\frac{\sqrt{1024} - \sqrt{3}}{\sqrt{441} + \sqrt{19}}$	24 96			X					
	( <i>a</i> )	$\frac{2}{5}$	( <i>b</i> )	$\sqrt{\frac{2}{5}}$	(c)	$\sqrt{\frac{8}{5}}$	( <i>d</i> )	$\frac{4}{5}$			
24.	Find tl	he smallest num	ber by v	which 2560 mu	st be mult	iplied so that th	ne produc	t will be a perfect cube.			
	(a)	10	(b)	25	(c)	20	(d)	35			
25.	Find tl	he quotient of po									
	(a)	$y^2 + 4y + 1$	(b)	$y^2 - 4y + 1$	(c)	$y^2 + 4y - 1$	(d)	$y^2 - 4y - 1$			
26.	Factor	rise the given exp	oression	$1:mn(u^2+v^2)$	–uv (m² +	n <sup>2</sup> )					
	(a)	(un + vm ) (um	n –vn)		(b)	(un + vm ) (ui	m + vn)				
	(c)	(un – vm) (um	-vn)		(d)	(un –vm) (um	ı +vn)				
27.	Find tl	he value of 'y' su	ich that	$\frac{8y+34}{36} + \frac{y}{3} =$	$=\frac{14y}{24}-\frac{2y}{24}$	$\frac{y+32}{72}.$					
	( <i>a</i> )	$\frac{12}{25}$	( <i>b</i> )	$\frac{25}{12}$	( <i>c</i> )	$\frac{48}{25}$	( <i>d</i> )	$\frac{25}{48}$			
28.	James	is a milk dealer	and us	ually mixes wa	ter in the	milk. He has ce	ertain qua	antity of milk and mixes it with			

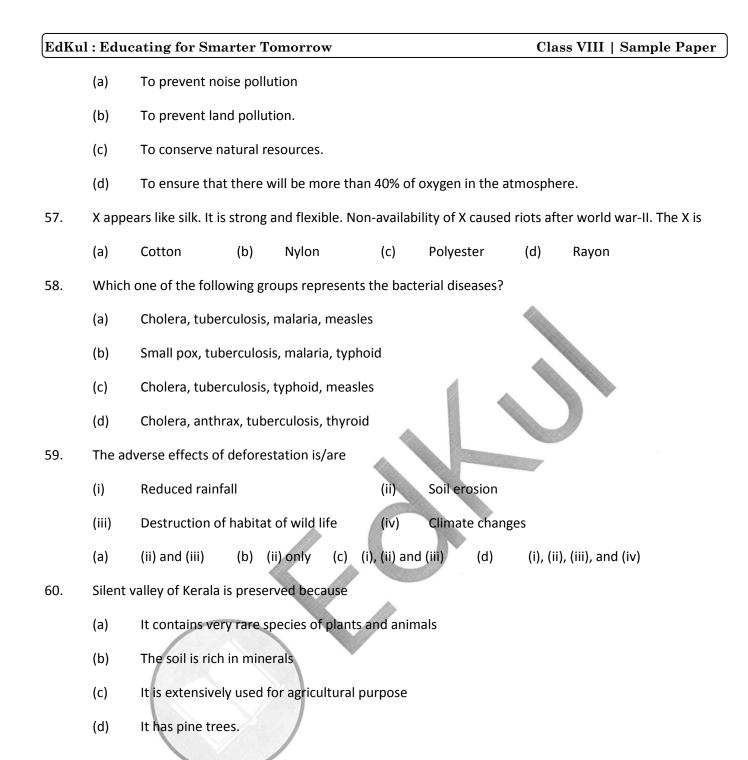
28. James is a milk dealer and usually mixes water in the milk. He has certain quantity of milk and mixes it with 16 liters of water and sell the mixture at Rs. 0.9 per liters. If pure milk is worth Rs. 1.08 per litre, then how much milk is there in the mixture?

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	(a)	50 litres	(b)	60 litres	(c)	70 litro	es	(d)	80 liti	res		
9.		-	-	level a ground inish the work			ry alon	e takes :	10 days	to finish	the wo	rk. Fii
	(a)	12 days	(b)	15 days	(c)	10 day	/S	(d)	20 da	ys		
<ul> <li>In a college 45 % students are in Mathematics department, 30 % are in Physics department. Biotechnology department and rest are in Chemistry department. If there are 120 students department, then find the total number of students in the college.</li> <li>(a) 800 (b) 850 (c) 750 (d) 1200</li> <li>Harry purchased a shirt for Rs. 2800 and sold it to his friend for Rs. 2250. Find his loss percent or (a) 19.64% (b) 18.94% (c) 20% (d) 21.56%</li> </ul>												
	(a)	800	(b)	850	(c)	750		(d)	1200			
1.	Harry	purchased a	a shirt for Rs	. 2800 and sold	l it to his	friend for	r Rs. 22	50. Find	his loss	percent	on the s	hirt.
	(a)	19.64%	(b)	18.94%	(c)	20%		(d)	21.56	%		
2.				Rs. 1500 after sted by Robert		on a cer	tain su	m of mo	oney at 8	3 % sim	ple intei	rest p
	(a)	Rs. 5950	(b)	Rs. 6050	(c) 🔌	Rs. 62	50	(d)	Rs. 65	520		
3.	Find the volume of a water tank whose length is 3 meters, breadth is 2.5 meters and height is 1.5 mete										ers.	
	(a)	17.84 m <sup>3</sup>	(b)	15.46 m <sup>3</sup>	(c)	11.25	m³	(d)	11.96	m <sup>3</sup>		
4.		-		obtained by 50 f the data giver	2336	s in Math	nematio	cs in the	ir previc	ous exan	nination	held
	45	68 43	1 87	61 44	67	30	54	8	39	60	37	50
	19	86 42	STATISTICS NUMBER	32 61	25	77	62	98	47	36	15	40
	9 25	25 34 95 68		61 75 29 41	51 45	96 87	20	13	18	35	43	88
	(a)	90	(b)	75	(c)	80		(d)	60			
	(-)				(-)			()				
5.	The v	alue of $4$	5	- is								
			$+\frac{1}{3+\frac{1}{2+\frac{1}{4}}}$									
	(a)	$\frac{40}{31}$	(b)	$\frac{4}{9}$	(c)	$\frac{1}{8}$		(d)	$\frac{31}{10}$			
5.	Soluti	on of the eq	uation 6 (3x	. + 2) – 5 (6x – 1	L) = 6 (x –	3) – 5 ( 7	x – 6) +	12x is		•		
	(a)	-1	(b)	1	(c)	0	·	(d)	2			
	(~)	-	(~)	-	(0)	•		(~)	-			

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37.	In the given figure, line RT is drawn parallel to SQ. If $\angle$ QPS = 100°, $\angle$ PQS = 40°, $\angle$ PSR = 85°									
	∠QR	S = 70°, then $\angle$	QRT is				P P	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	(a) (c )	45° 85°		(b) 65° (d) 90°			s	R		
38.	Evalu	ate $\sqrt{41-\sqrt{21}}$	+ \sqrt{19-}	<u>,</u>						
	(a)	3	(b)	6	(c)	5	(d)	6.4		
39.	The v	alue of $\sqrt[3]{343} \times \sqrt[3]{343}$	∛ <u>-64</u> is							
	(a)	28	(b)	-28	(c)	18	(d)	-18		
40.	The C	.l on Rs. 16,000 a	at 15% p	.a. for $2\frac{1}{3}$ year	s is	-				
	(a)	Rs. 6418	(b)	Rs. 5000	(c)	Rs. 2221	(d)	Rs. 6218		
				<u>SECTIO</u>	<u>N-C (</u>	<u>SCIENCE)</u>				
41.	The p	rocess of transfe	erring the	e seedlings fron	n the nur	sery to the mai	n field by	hands is called:		
	(a)	Ploughing	(b)	Leveling	(c)	Manuring	(d)	Transplanting		
42.	The p	rocess of supply	ing wate	r to crop plants	in the fi	elds is called:				
	(a)	Ploughing	(b)	Leveling	(c)	Irrigation	(d)	Transplantation		
43.	Whick	n one of the follo	owing ma	aterial is obtain	ed when	coal is strongly	heated i	n the absence of air?		
	(a)	Coke	(b)	Petroleum	(c)	Coal tar	(d)	Both (a) and (c)		
44.	Whick	n of the followin	g fraction	ns obtained by	the refini	ing of petroleur	n is used	to make candle?		
	(a)	Bitumen	(b)	Lubricating o	il (c)	Paraffin wax	(d)	Both (b) and (c)		
45.	Whick	n one of the follo	owing or	ganisms produc	es their y	young ones by t	he asexu	al mode of reproduction?		
	(a)	Frog	(b)	Birds	(c)	Human	(d)	Amoeba		
46.	Whick	n one of the follo	owing or	ganisms produc	es their y	young ones by t	pirth?			
	(a)	Frog	(b)	Birds	(c)	Buffalo	(d)	Both (b) and (c)		
47.	Whick	n one of the follo	owing is t	the unit of freq	uency?					
	(a)	Metre	(b)	Hertz	(c)	Second	(d)	Newton		
Leade	ers in l	NTSE, NSTSE,	Olymp	iads & CBSE	IX-X Pr	eparations		Page   6		

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48.	The t	ime taken by a vibrati	ng object to	o comple	ete one	vibration is call	ed its:				
	(a)	Intensity (b)	Time-	period	(c)	Vibration	(d)	Freque	ency		
49.	Whic	h one of the following	g is the hott	est plane	et in oui	r solar system?					
	(a)	Mercury (b)	Venus	5	(c)	Earth	(d)	Mars			
50.	Choo	se the gaseous planet	from the fo	ollowing	:						
	(a)	Mercury (b)	Venus	5	(c)	Earth	(d)	Jupite	r		
51.	Why	does a series of fast n	noving still µ	oictures	can crea	ate an illusion o	f movem	ent in ou	r eyes?		
	(a)	The eye can focus	on very rap	idly char	nging pio	ctures.					
	(b) The eye is quicker than the brain										
	(c)	(c) The eye can separate two images only when the interval of separation between them is or sixteenth of a second.									
	(d)	The optical cortex	can see thro	ough the	e rapidly	moving image	5.				
52.	Ultra	sound cannot be hear	d by the hu	man ear	<sup>-</sup> becaus	e					
	(a)	The sounds are too	o deep	(b)	The p	itch of the sour	nd is too l	nigh			
	(c)	Such sounds are to	o faint	(d)	These	e sounds are pro	oduced b	y animals	s like rats.		
53.	Whic	h metal are correctly	arranged in	descend	ding ord	er in the reactiv	ity series	s of meta	1?		
	(a)	Lead, Zinc, sodium		(b)	Lead,	sodium, zinc					
	(c)	Zinc, lead, sodium		(d)	Sodiu	m, zinc, lead					
54.	Whic	h is the most likely so	urce for the	acid rai	n?						
	(a)	Burning of coal		(b)	Use o	f CFC products					
	(c)	Burning of paper		(d)	Use o	f bio-degradab	le produc	ts			
55.	Whic	h micro-organism is m	natched cor	rectly to	its dise	ase respectivel	/?				
	(a)	Worms cause sexu	ally transm	itted dis	ease						
	(b)	Bacteria cause tub	erculosis								
	(c)	Protozoa cause rin	gworm								
	(d)	Fungi causes malar	ria								
56	Coun	try X has a rule that r	oquires an	iono wh	o cut de	own a traa ta r	onlant a	now trop	within the same are		



EdKu	ul : Educating	Class VIII	Samj	ole Paper							
				<u>AI</u>	NSWER KEY						
1.	А	2.	С	3.	С	4.	А	5.	С		
6.	В	7.	С	8.	А	9.	D	10.	В		
11.	С	12.	С	13.	А	14.	С	15.	В		
16.	В	17.	В	18.	В	19.	D	20.	С		
21.	А	22.	В	23.	А	24.	В	25.	В		
26.	С	27.	В	28.	D	29.	В	30.	D		
31.	А	32.	С	33.	С	34.	А	35.	С		
36.	А	37.	В	38.	В	39.	В	40.	D		
41.	D	42.	С	43.	D	44.	с	45.	D		
46.	С	47.	В	48.	В	49.	В	50.	D		
51.	С	52.	В	53.	D	54.	A	55.	В		
56.	С	57.	В	58.	D	59.	D	60.	А		