

For students moving from class 7th to class 8th

Exam ID : 1229

Time : 1:30 Hrs

Max. Marks : 240

IMPORTANT INSTRUCTIONS

Note: All Questions are compulsory:

Section-1: It contains 30 questions in total.

Question No. 1 to 10 belongs to Physics.

Question No. 11 to 20 belongs to Chemistry.

Question No. 21 to 30 belongs to Biology.

Section-2: It contains 10 questions in total.

Question No. 31 to 40 belongs to Mathematics.

Section-3: It contains 20 questions in total.

Question No. 41 to 60 are to Mental Ability questions.

Marking Scheme: Each question carries 4 marks. For each correct response, the candidate will get 4 marks. There is no negative marking for incorrect response or unattempted questions.





Section-I (SCIENCE)

1. Leaves of trees, banner or flags flutter when wind blows. What will be the correct reason among following options?

		0 0 1						
	(a)	Air occupies space	e		(b)	Air is a mixture	e of ga	ses
	(c)	Air exerts pressur	е		(d)	Air is colourles	S	
2.	Near	rly all the analog cl	ock n	nake use of				
	(a)	straight line motio	on		(b)	periodic motion	1	
	(c)	random motion			(d)	circular motion		
3.	Whi	ch one of the follow	wing i	is based on the heat	ing ef	ffect of current?		
	(a)	Geyser			(b)	Hair dryer		
	(c)	Immersion rod			(d)	All of these		
4.	In w	hich of the followi	ng ca	ses do we observe l	ateral	inversion?		
	(a)	Plane mirror			(b)	Convex mirror		
	(c)	Concave mirror			(d)	All of these		
5.		e current flowing th king the circuit	nroug	h a fuse wire excee	ds saf	fety limit, the fus	e will	thus
	(a)	melted away			(b)	remains the san	ne	
	(c)	damages the circu	uit		(d)	makes the circu	it rem	ain connected
6.	Folle	owing are precaution	tions one must take in case of a storm is accompanied by lightning.					
	(i) D	ο not take shelter ι	ınder	a tree.				
	(ii) I	Do not take shelter	under	an umbrella with a	a meta	allic end.		
	(iii)	Do not take shelter	[.] in op	en garages, storage	e shed	s, etc.		
	(iv)	Do not take shelter	in a l	ous in the open. Wh	nich o	ne of these is not	corre	ct?
	(a)	(i)	(b)	(ii)	(c)	(iii)	(d)	(iv)
7.	A si	mple pendulum tak	es 42	sec. to complete 20	0 osci	llations. What is	its tin	ne period?
	(a)	2.1 s	(b)	4.2 s	(c)	21 s	(d)	8.40 s
8.	The	coil of wire contain	ned in	an electric heater	is kno	wn as		
	(a)	component	(b)	element	(c)	circuit	(d)	spring





- Boojho and Paheli were given one mirror each by their teacher. Boojho found his image to 9. be erect and of the same size whereas Paheli found her image erect and smaller in size. This means that the mirrors of Boojho and Paheli are, respectively plane mirror and concave mirror concave mirror and convex mirror (b) (a) plane mirror and convex mirror convex mirror and plane mirror (c) (d) 10. is filled in the bulb of a thermometer. Fill in the blanks from given option. Mercury (b) Lead (c) Copper (d) Silver (a) 11. The term Sericulture is used for Culture of bacteria Rearing of silkworm (a) (b) Making silk fabric from silk yarn (d) Production of sarees (c) 12. Products of a neutralisation reaction are always an acid and a base. an acid and a salt. (a) (b) salt and water. a salt and a base. (c) (d) 13. Which of the following is a chemical change? Twinkling of stars Cooking of vegetables (a) (b) (c) Cutting of fruits (d) Boiling of water 14. Seas and oceans are full of water on earth. However, a very small percentage of water present on earth is available for us. This percentage is roughly 0.006% (b) 0.06% (a) (c) 0.6% (d) 6% 15. Which of the following is/are true when milk changes into curd? (i) Its state is changed from liquid to semi-solid. (ii) It changes colour. (iii) It changes the taste. (iv) The change cannot be reversed. Choose the correct option from below : (i) and (ii) are correct (ii) and (iii) are correct (a) (b) (i), (iii) and (iv) are correct (d) (i) to (iv) are correct (c) 16. Silk is derived from (a) cocoon (b) (c) egg (d) moth pupa 17. Turmeric is a natural indicator. On adding its paste to acid and base separately, which colours would be observed Yellow in both acid and base. Yellow in acid and red in the base. (a) (b) (c) Pink in acid and yellow in the base. (d) Red in acid and blue in the base
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- **18.** When the soil is too basic, plants do not grow well in it. To improve its quality what must be added to the soil?
 - (a) Organic matter (b) Quick lime
 - (c) Slaked lime (d) Calamine solution
- **19.** Iron pillar near the Qutub Minar in Delhi is famous for the following facts. Which of these facts is responsible for its long stability?
 - (a) It is more than 7 meters high
 - (b) It weighs about 6000 kg.
 - (c) It was built more than 1600 years ago
 - (d) It has not rusted after such a long period
- **20.** "Every Drop Counts" is a slogan related to
 - (a) counting of drops of any liquid (b) counting of water drops
 - (c) importance of water (d) importance of counting
- **21.** The water holding capacity is highest in :
 - (a) sandy soil (b) clayey soil
 - (c) loamy soil (d) Mixture of sandy and loamy soil

22. The air sacs at the end of the smallest air tubes inside the lungs are called :

- (a) Alveoli (b) Bronchi (c) Bronchioles (d) Larynx
- **23.** In plants excess amount of CO_2 escapes through:
 - (a) Stomata (b) Phloem (c) Xylem (d) Cambium
- **24.** Source of carbohydrate is :
 - (a) Potato (b) Tomato (c) Pea (d) Tea
- **25.** Examine the following statements :
 - (a) Iron necessary for the human body is abundantly formed in green vegetables
 - (b) Zinc is one of the essential trace elements required for human body
 - (c) Fats and minerals are not the essential nutrients for a balanced diet of humans
 - (d) The foods that generate energy in the body after complete oxidation are in the form of the carbohydrates fats and proteins. Which one of the following alternatives is wrong?
 - (a) B (b) A (c) D (d) C

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26.	Sunshine Vitamin is	:



	(a)	Vitamin –E	(b)	Vitamin – D	(c)	Vitamin – K	(d)	Vitamin -A	
27.	Ure	a formation occurs	by:						
	(a)	Arginine cycle			(b)	Calvin cycle			
	(c)	Ornithine cycle			(d)	Citrulline cycle	•		
28.	A pa	acemaker of SA no	de is f	found in :					
	(a)	Heart	(b)	Kidney	(c)	Liver	(d)	Stomach	
29.	Heat	rt disease is a:							
	(a)	Chronic disease			(b)	Communicable disease			
	(c)	Degeneration dis	ease		(d)	Deficiency disease			
30.	Bact	teria have the follo	wing	cell organelle					
	(a)	Golgi bodies			(b)	Chlorophyll			
	(c)	Mesosomes			(d)	Mitochondria			

Section-II (MATHEMATICS)

31.	The	The product of two negative integers is								
	(a)	a positive integer								
	(b)	a negative integer								
	(c)	either a positive in	ntege	r or a negative integ	ger					
	(d)	none of these.								
32.	(-1($)) \times 0 \times (-15) \text{ is equ}$	al to							
	(a)	0	(b)	10	(c)	15	(d)	150		
33.	The	multiplicative iden	tity fo	or integers is						
	(a)	1			(b)	-1				
	(c)	0			(d)	None of these				
34.	Вуу	what fraction should	l we	multiply 4/5 to get	16/35	?				
	(a)	4/7			(b)	7/4				
	(c)	4/5			(d)	none of these				

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35 .		n is equal to						
	(a)	0.005 km			(b)	0.00005 km		
	(c)	0.000005 km			(d)	None of these		
36.	The	mean of the number	ers 1(),20, 30 and 40 is				
	(a)	20	(b)	25	(c)	330	(d)	50
37.	The	range of given data	a is:	49, 60, 47, 50, 47,	59, 58	3, 45, 53		
	(a)	10	(b)	15	(c)	20	(d)	2
38.	The	solution of the equ	ation	10 y - 20 = 30 is				
	(a)	1	(b)	2	(c)	3	(d)	5
39.	Wha	at is the measure of	the c	complement of the a	angle	90°?		
	(a)	90°	(b)	0°	(c)	180°	(d)	360°
40.	In w	hich case of the fol	lowir	ng lengths of sides o	f a tria	angle, is it possibl	le to d	raw a triangle?
	(a)	3 cm, 4 cm, 7 cm			(b)	2 cm, 3 cm, 7 c	m	

Section-III (MA	T)

(d)

3 cm, 4 cm, 5 cm

(c)

3 cm, 3 cm, 7 cm

41.	3, 5, 7, 9, 11, 13, 15, 17	7,?					
	(a) 14	(b)	19	(c)	15	(d)	21
42.	2, 3, 5, 7, 11, ?, 17						
	(a) 14	(b)	13	(c)	10	(d)	4
43.	2, 5, 10, 17, ?						
	(a) 24	(b)	25	(c)	26	(d)	27
44.	0, 7, 26, ?, 124, 215						
	(a) 51	(b)	37	(c)	63	(d)	16
45.	3, 4, 10, 33, 136, ?						
	(a) 240	(b)	430	(c)	685	(d)	820
46.	11, 15, 21, 29, ?						
	(a) 40	(b)	41	(c)	37	(d)	39
47.	3, 6, 18, 72, 360, ?						
	(a) 720		(b)	1080) (c)	1600	(d) 2160

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48.	6, 12, 7, 11, 8, 10, 9, ?						
	(a) 8	(b)	9	(c)	11	(d)	10
49.	A, C, ?, G, I						
	(a) E	(b)	D	(c)	F	(d)	Н
50.	V, T, R, ?, N, ?						
	(a) O,M	(b)	P,M	(c)	L,P	(d)	P,L
51.	A, C, F, ?, O						
	(a) G	(b)	J	(c)	Н	(d)	Κ
52.	DC, DE, FE, ?, HG, H	I					
	(a) FE	(b)	FG	(c)	GF	(d)	GH
53.	CIR, GMV, KQZ, OU	D, ?					
	(a) PYH	(b)	SYH	(c)	SZI	(d)	SYI
54.	DTE, SBM, AJU, IRC	, ?					
	(a) OZL	(b)	QYZ	(c)	QZL	(d)	QZK
55.	128, 110, 90, 68, ?						
	(a) 36	(b) 4	42	(c) 4	14	(d) 4	48
56.	1, 2, 4, 7, ?, 16						
	(a) 9	(b)	11	(c)	12	(d)	13
57.	6, 8, 9, 12, 14, 18, ?						
	(a) 21	(b)	19	(c)	20	(d)	none of these
58.	4, 9, 19, 34, 54, ?						
	(a) 66	(b)	75	(c)	79	(d)	84
59.	31, 29, 24, 22, 17 ?, ?						
	(a) 15, 13	(b)	10, 8	(c)	14, 12	(d)	15, 10
60.	3, 6, 11, 18, ?						
	(a) 19	(b)	27	(c)	37	(d)	none of these