

## For students moving from class 8th to class 9th

**Exam ID: 1230** 

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.	Fric	Friction is a								
	(a)	non-contact force	(b)	contact force						
	(c)	magnetic force	(d)	electrostatic force						
2.	Whi	ch of the following is a bad conductor of el	lectric	ity?						
	(a)	Distilled water	(b)	Silver nitrate						
	(c)	Sulphuric acid	(d)	Copper Sulphate						
3.		mooth shining surface, which rebounds the	light b	back in same or in different direction, is						
	calle		4.							
	(a)	a mirror	(b)	a lens						
	(c)	reflection of light	(d)	point of incidence						
4.		ce acting on per unit area is called		_						
	(a)	non-contact forces	(b)	contact forces						
	(c)	force	(d)	pressure						
5.		nd is a kind of								
	(a)	work	(b)	energy						
	(c)	force	(d)	pressure						
6.	Whi	ch of the following does not conduct electr	icity?							
	(a)	Sugar solution	(b)	Vinegar solution						
	(c)	Lemon juice solution	(d)	Caustic soda solution						
7.	Bear									
	(a)	reflecting ray	(b)	incident ray						
	(c)	refracted ray	(d)	normal ray						
8.	A _	exerted by an object on anothe	er is a	force.						
	(a)	Push or pull	(b)	Contact or non-contact force						
	(c)	Pressure	(d)	Magnitude						
9.	The hearing range of human ear is									
	(a)	20 Hz to 20,000 Hz	(b)	less than 20 Hz						
	(c)	more than 20,000 Hz	(d)	20 Hz to 25,000 Hz						





10.	Lea	ves or fruits fall on	the g	round due to				
	(a)	magnetic force			(b)	gravitational fo	rce	
	(c)	electrostatic force	e		(d)	muscular force		
11.	"	is malleabl	le and	ductile" This state	ment	best describes,		
	(a)	a metal	(b)	a nonmetal	(c)	a metalloid	(d)	a compound
12.	The	substance having t	he hig	ghest calorific value	e is			
	(a)	LPG	(b)	hydrogen	(c)	oxygen	(d)	coal gas
13.	Iden	ntify the type of pla	stic th	nat can best be used	l to m	ake electrical swi	itches	
	(a)	PVC	(b)	Polythene	(c)	PET	(d)	Bakelite
14.	Rea	d the following stat	temen	its and select the co	rrect	ones.		
	A. (	Coal, petroleum and	l natu	ral gas are fossil fu	els.			
	В. С	Coal and natural gas	s are e	exhaustible resource	es.			
	C. C	Coke is used in the	manu	facture of steel.				
	D. F	Fossil fuels are pres	ent in	limited quantities.				
	(a)	A and B	(b)	A, B, C and D	(c)	A, B and C	(d)	A and D
15.	Whi	ich of the following	g is ob	otained from hair of	f an ar	nimal?		
	(a)	silk	(b)	nylon	(c)	cotton	(d)	wool
16.	The	most reactive meta	al of t	he following is,				
	(a)	Zinc	(b)	Iron	(c)	Magnesium	(d)	Sodium
17.	The	zone of the candle	flame	e which is moderate	ely ho	t is called,		
	(a)	nonluminous zon	e		(b)	luminous zone		
	(c)	inner dark zone			(d)	lowest blue zon	ie	
18.	Proc	cess of separating u	seful	fractions from petr	oleun	is called		
	(a)	Refining			(b)	Cooling		
	(c)	Destructive distil	lation	l	(d)	none of these		
19.	Whi	ich of these is a nat	ural p	oolymer				
	(a)	polyester	(b)	cotton	(c)	PVC	(d)	acrylic





20.	Which of the following groups contain only synthetic fibres?								
	(a)	Nylon, Terylene,	Woo	1	(b)	Cotton, Polycot	, Ray	on	
	(c)	PVC, Polythene,	Bake	lite		(d)	Acry	lic, silk, Wool	
21.	A healthy person is one who is free from:								
	(a)	Diseases			(b)	Mental tension			
	(c)	Diseases and mer	ntal te	nsion	(d)	Bacteria			
22.	Mur	rah is a high yieldi	ng bro	eed of:					
	(a)	Cow	(b)	hen	(c)	Buffalo	(d)	Sheep	
23.	Hoo	olock Gibbon (India	's on	ly ape) is found in:					
	(a)	Kaziranga Nation	al Pa	rk	(b)	Jim Corbett Na	tional	Park	
	(c)	Bharatpur Birds S	Sancti	ıray	(d)	Kanha National	Park		
24.	Mar	nmals have :							
	(a)	Two – chambered	d hear	t	(b)	body covered w	ith ha	airs	
	(c)	Lungs for respira	tion		(d)	Breast			
25.	Oxy	gen is poisonous fo	or						
	(a)	all bacteria			(b)	Anaerobic bacto	eria		
	(c)	Aerobic bacteria			(d)	None			
26.	Which one contains voluntary muscles?								
	(a)	Heart	(b)	Hind limb	(c)	liver	(d)	Lungs	
27.	Prot	ein present in musc	ele fib	pers are					
	(i)	Actin	(ii)	Myosin	(iii)	Chondrin	(iv)	Tendon	
	Cho	ose the most appro	priate	option					
	(a)	(i) & (iii)	(b)	(ii) & (iv)	(c)	(i) & (ii)	(d)	(ii) & (iii)	
28.	The	e number of floating	g ribs	, in the human body	y are:				
	(a)	6 pairs	(b)	4 pairs	(c)	3 pairs	(d)	2 pairs	
29.	Hor	mone which contro	ls am	ount of urine is:					
	(a)	TSH	(b)	ADH	(c)	Adrenalin	(d)	thyroxin	
30.	In w	hich of the followi	ng tis	sue, food is transpo	orted				
	(a)	Phloem	(b)	Tracheids	(c)	Vessels	(d)	none of these	

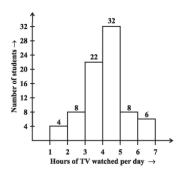


### **Section- II (MATHEMATICS)**

- 31. A rational number between  $\frac{3}{5}$  and  $\frac{4}{5}$  is
  - (a)  $\frac{7}{5}$
- (b)  $\frac{7}{10}$
- (c)  $\frac{3}{10}$
- (d)  $\frac{4}{10}$

- 32. Solve: 2x-3=x+2
  - (a) -5
- (b) -9
- (c) 5
- (d) 9
- 33. The angle sum of all interior angles of a convex polygon of side 7 is
  - (a) 180°
- (b) 540°
- (c) 630°
- (d) 900°

Following bar graph shows marks obtained by a student in 2005-06 and 2006-07 subject wise. Read and answer the questions from 19-22



- **34.** For how many hours did the maximum number of students watch TV?
  - (a) 4-5 hrs
- (b) 6-7 hrs
- (c) 3-4 hrs
- (d) 2-3hrs

- **35.** How many students watched TV for less than 4 hrs?
  - (a) 12
- (b) 34
- (c) 4
- (d) 8
- **36.** How many students spent more than 5 hrs in TV watching?
  - (a) 14
- (b) 0

- (c) 6
- (d) 8
- **37.** For how many hours did the minimum number of students watch TV?
  - (a) 2-3 hrs
- (b) 6-7 hrs
- (c) 1-2 hrs
- (d) 3-4hrs
- **38.** How many natural numbers lie between  $9^2$  and  $10^2$ ?
  - (a) 15
- (b) 19
- (c) 18
- (d) 17
- **39.** Which of the following is Hardy Ramanujan Number?
  - (a) 1724
- (b) 1725
- (c) 1727
- (d) 1729
- **40.** Out of 32 student, 8 are absent. What percentage of the students are present?
  - (a) 75%
- (b) 64 %
- (c) 60 %
- (d) none of these





### **Section- III (MAT)**

- **41.** F3X, H7U, J15R, L31O, ?
  - (a) M46L
- (b) N44L
- (c) N63L
- (d) N44M

- **42.** a\_ab\_ba\_a\_ab
  - (a) babb
- (b) abba
- (c) baba
- (d) aabb

- **43.** a\_cab\_a\_c\_bc
  - (a) bbac
- (b) abab
- (c) abba
- (d) bcba

- **44.** \_abb\_a\_baa\_b
  - (a) baba
- (b) abba
- (c) aabb
- (d) aaab

- **45.** ba\_cb\_b\_bab\_
  - (a) acbb
- (b) bcaa
- (c) cabb
- (d) back

- **46.** bc\_b\_c\_b\_ccb
  - (a) cbcb
- (b) bbcb
- (c) cbbc
- (d) bcbc

47.



- (a) 125
- (b) 25
- (c) 625
- (d) 156

48.



- (a) 64
- (b) 36
- (c) 34
- (d) 60

**49.** 

7	9	11
2	3	2
53	90	?

- (a) 120
- (b) 100
- (c) 125
- (d) 64



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**50.** 

В	C	?
О	Q	S
M	N	R

- (a) A
- (b) D
- (c) G
- (d) P

- **51.** 2, 3, 5, 7, ?
  - (a) 9

- (b) 10
- (c) 11
- (d) 14

- **52.** 4, 25, 64, 121, 196, ?
  - (a) 384
- (b) 256
- (c) 225
- (d) 289

- **53.** 4, 10, 22, 46, ?
  - (a) 56
- (b) 66
- (c) 76
- (d) 94

- **54.** 12, 15, 18, 21, ?
  - (a) 24
- (b) 23
- (c) 22
- (d) 25

- **55.** 4, 7, 3, 6, 2, 5, ?
  - (a) 6

- (b) 5
- (c) 3
- (d) 1

#### **Direction (56-59)**

Which sequence of letter when placed at the blanks one after the other will complete the given letter series.

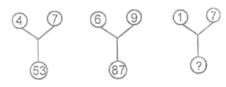
- **56.** \_aabb\_abbb\_b
  - (a) b a b
- (b) b a c
- (c) bba
- (d) baa

- **57.** a \_ b a a \_ b a a \_ b a
  - (a) a a b
- (b) b a b
- (c) b b a
- (d) b b b

- **58.** \_ b a a \_ b a \_ a a b \_
  - (a) baba
- (b) b b a a
- (c) a b b b
- (d) b b a b

- **59.** b a b b b \_ b \_ b b
  - (a) b b a
- (b) b a b
- (c) aba
- (d) a a a

**60.** 



- (a) 49
- (b) 50
- (c) 48
- (d) 55