SAMPLE PAPER

SET - 1

CLASS - VII



AVIRAL CLASSES

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PHYSICS

1.	(a) 0.6 m/s		our. The speed of the 61.5 m/s	e trair (c)	60 m/s	(d)	16.67 m/s			
2.	Ravi walks to school which is at a distance of 5 km from his home in 20 minutes. On reaching he finds that school is closed and comes back in his friends car to home in 5 minutes. His average speed in Km/h is									
	(a) 20 km/h	(b)	24 km/h	(c)	30 km/h	(d)	15 km/h			
3.	A car moves with a speed of 150 km/h for 30 minutes then with a speed of 90 km/h for next 30 minutes. Total distance covered by car									
	(a) 120 km	(b)	150 km	(c)	125 km	(d)	100 km			
4.	Consider a pendulum (a) 0.675 sec		ing at 70 cycles in h 0.8 sec	alf a r (c)	minute, its time 0.428 sec	-	d will be 0.349 sec			
5.	Which is the most suita	able m (b)	naterial for making th Steel	ne cor (c)	e of a strong pe Iron		ent electromagnet Aluminium			
6.	Which of the following (a) High melting poin (c) Made fron Pb and	t	acteristic is suitable	for a f (b) (d)	use wire Long and thin Thick and sho					
7.	Value of 86 degrees co (a) 186.8 F, 359 K		in Fahrenheit and h 185.8 F, 360 K	(c)	•	•	194 F, 398 K			
8.	What is the normal ter (a) 289 K	npera (b)		dy ? (c)	310 K	(d)	315 K			
9.	Statement-1 → Temperature travels from cold body to hot body Statement-2 → Two bodies having same heat must always have same temperature. Statement-3 → Heat is the degree of hotness or coldness of body Statement-4 → Temperature is always a measure of heat Find out the correct statement:									
	(a) 2	(b)	1	(c)	4	(d)	3			
10.	Which is the odd one (a) Parsec	out ? (b)	Second	(c)	Kilometer	(d)	Light year			
11.	Four bodies have their volumes; A \rightarrow 50 m³, B \rightarrow 50000 cm³, C \rightarrow 0.7 km³, D \rightarrow 55 x 10 ⁵ mm³. Which of them has the least density									
	(a) B	(b)	С	(c)	Α	(d)	D			
12.	The metre standard ke (a) Iron (c) Copper/Platinum	pt in	france is cylindrical	rod m (b) (d)	ade up of Steel/brass Platinum/Iridiu	ım				
13.		Which of them instruments will give us the least precise measurement?								
	(a) Vernier Calliper	. 5	9.70 40 110 10401	(b)	Centimeter ru					
	(c) Screw guage			(d)	Kilometer rule	(Mea	asuring tape)			



A measuring instrument with most precision has

14.

	(a)	Zero defects Low least count				(b) (d)	Low ac	curacy ast cou	ot		
4.5	(c)				e i	` '	_	asi coui	11		
15.	The expansion of a substance on heating depermental (a) Size of substance					ds on (b)	Tempe	raturo			
	(a) (c)	Nature of substance				(d)	•	ature and (c	:)		
	(0)	ratare or easetaries				(α)	Dour (b) and (c	′)		
				CHEMISTRY							
16.	When base are dissolve in water they give										
	(a))		xide ion	(c)	H ₃ O+ io	n	(d)	None	
17.	Meth	nyl orange is an exam	ple	of			Ü				
		•		Salt		(c)	Base		(d)	Indicator	
18.	Galv	anisation is used to p	re۱	ent wh	ich of the foll	lowing	g phenor	menon			
	(a)	Corrosion (b)	Dustin	ıg	(c)	Overloa	ading	(d)	Short circuiting	
19.	Which of the following is an exmaple of irreversible chemical change										
	(a)	Heating of an iron roo	b			(b)	Burning	g of coa	l		
	(c)	Boiling of water				(d)	Freezin	ng of wa	ter		
20.	Whi	ch of the following is a	W	eak aci	d						
	(a)	Hydrochloric acid (b)	Nitric a	acid	(c)	Sulphu	ric acid	(d)	Oxalic acid	
21.	The churning of butter from milte is an example of										
	(a) Physical change that can be reverse										
	(b) Chemical change that can be reverse										
	(c) A physical change that cannot be reverse(d) A chemical change that cannot be reverse										
	(d)	_			be reverse						
22.		asp string is in				(-)	۸ اد ما ا: م	_	(al \	Navitual	
	()	,	,	Basic		(c)	Altealin		` ,	Neutral	
23.		at is the time duration t					•			•	
	(a)	•	•		21 days	(c)		ays	(a)	5 to 10 days	
24.	Match the words of column-I with those given in column-II.										
	1.	Column - I Scouring		A.	Column - II Cleaning sh	eared	l skin				
	2.	Mulberry leaves		л. В.	Food of silk						
	3.	Yak		C.	Yields silk fil						
	4.	Cocoon		D.	Wool yieldin	ng anii	mal				
				E.	Reeling						
	(a)	1(A)-2(B)-3(D)-4(C) 8	(E	≣)		(b)		B)-3(D)-			
	(c) 1(B)-2(C)-3(D)-4(E)					(d)	1(C)-2(E)-3(A)-	-4(B)		



25.	Which of the following groups contains all sythetic substances?									
	(a)	Nylon, Terylene, wo	ool		(b)	Cotton, polyco	t, Ra	yon		
	(c)	PVC, Polythene Ba	akelit	е	(d)	Acrlic, Silk, wo	ol			
26.		colour of methyl ora	_							
	(a)	Red	(b)	Blue	(c)	Orange	(d)	Yellow		
27.	Nan	ne the natural acid tl	nat is	found in apple						
	(a)	Citric acid	(b)	Turmuric acid	(c)	Oxalic acid	(d)	Malic acid		
28.	28. The atomic mass of an atom is(a) Sum of electron and proton(b) is equal to the number of proton lies in the nucleous of an atom									
	(c) (d)	Sum of proton and None of these	neut	tron						
29.	Apic	culture is related to								
	(a)	Sheeps	(b)	Bees	(c)	Silkworm	(d)	Cereals		
30.	The	acid which is prese	nt in	milk						
	(a)	Lactic acid	(b)	Hydrochloric acid	(c)	Citric acid	(d)	Nitric acid		
			١	IATHEMATI	CS					
31.	If 5×	r³ = 25 ^(3x-4) , then valu	ıe of	x is						
		<u>5</u>	(b)	11		11	(d)	13		
	(a)	11	(b)	5	(c)	3	(a)	5		
32.	By h	now much does $\frac{6}{7/8}$	- exc	$\frac{6/7}{8}$?						
	(a)	$6\frac{1}{8}$	(b)	$6\frac{3}{4}$	(c)	$7\frac{3}{4}$	(d)	$7\frac{5}{6}$		
33.	Whi	ch of the following f	ractio	on is the smallest?		7		O		
		40			(0)	17	(d)	7		
	(a)	16	(D)	15 19	(c)	21	(d)	8		
34.	If $\frac{1}{0}$.	$\frac{44}{144} = \frac{14.4}{x}$, then the	valu	ueof x is						
	(a)	0.0144	(b)	1.44	(c)	14.4	(d)	144		
35.	By h	now much percent is	four	-fifth of 70 lesser tha	an five	e-seventh of 112	2?			
	(a)	24%	(b)	36%	(c)	30%	(d)	42%		
36.	Ang (a)	les of a triangle are 20°	in the	e ratio 2 : 4 : 3. The 40°	small (c)	est angle of the 60°		igle is 80º		
37.	If A : (a)			11, then A : B : C is 30 : 42 : 77	(c)	35 : 49 : 42	(d)	None of these		
					-		-			

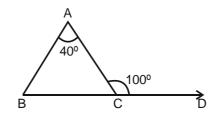


- 38. If a side of a rhombus is 10 cm and one of the diagonals is 16 cm, then the length of the other diagonal is
 - (a) 6 cm
- (b) 12 cm
- (c) 20 cm
- (d) 12 cm
- 39. A man buys a cylce for Rs 1400/- and sells it at a loss of 15%. What is the selling price of the cycle ?
 - (a) Rs 1090
- (b) Rs 1160
- (c) Rs 1190
- (d) Rs 1202

- 40. The value of $\frac{\frac{1}{2} \div \frac{1}{2} \text{ of } \frac{1}{2}}{\frac{1}{2} + \frac{1}{2} \text{ of } \frac{1}{2}}$ is
 - (a) 1

- (b) $1\frac{1}{3}$
- (b) $2\frac{1}{3}$
- (d) 3
- 41. Three numbers are in the ratio 3:4:5 and their LCM is 2400. Their HCF is
 - (a) 40
- (b) 80
- (c) 120
- (d) 200

42. In figure measure of ∠ABC is

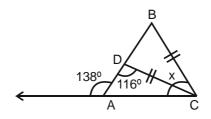


- (a) 60°
- (b) 70°
- (c) 80°
- (d) 50°

- 43. If 8% of x = 4% of y, then 20% of x is
 - (a) 10% of y
- (b) 16% of y
- (c) 80% of y
- (d) None of these

- 44. If $x = \frac{1}{2\sqrt{3}}$ then the value of $x^2 \frac{1}{x^2}$ is
 - (a) $12\sqrt{3}$
- (b) $8\sqrt{3}$
- (c) 14
- (d) 12

45. In the figure, the value of x is



- (a) 42°
- (b) 64°
- (c) 74°
- (d) None of these

- 46. If $2^x = 3^y = 6^{-z}$, then the value of $\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = ?$
 - (a) 0

(b)

- (c) 2
- (d) 3

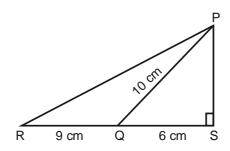
- 47. If $\frac{P}{Q} = 7$, then the value of $\frac{P + \theta}{P \theta}$ is
 - (a) $\frac{1}{3}$
- (b) $\frac{2}{3}$
- (c) $\frac{4}{3}$
- (d) $\frac{7}{8}$



- 48. A student has to obtain 33% of the total marks to pass. He got 125 marks and failed by 40 marks. The maximum marks are
 - (a) 300
- (b) 500
- (c) 800
- (d) 1000

- 49. The mean proportional between 234 and 104 is
 - (a) 156
- (b) 165
- (c) 123
- (d) 132

50. In the given figure, the length PR = ?



- (a) 10 cm
- (b) 14 cm
- (c) 17 cm
- (d) 18 cm

MENTAL ABILITY

- 51. 4, 32, 16, 128, 64, ?
 - (a) 612
- (b) 362
- (c) 512
- (d) 412

- 52. 0, 6, 24, 60, 120, 210, ?
 - (a) 336
- (b) 300
- (c) 343
- (d) 332

- 53. 4 <u>58</u> 8
- 9 ? 8
- (a) 117
- (b) 78
- (c) 100
- (d) 63

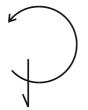
54.

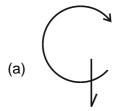
1	4	9	?
1	2	3	4
2	4	6	?

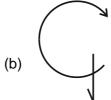
- (a) 16, 8
- (b) 49, 7
- (c) 36, 4
- (d) 25, 5
- 55. One evening just before sunset two friends Sanju and Manju were talking to each other face to face. If Manju's shadow was exactly to her left side, which direction was Sanju facing?
 - (a) North
- (b) South
- (c) West
- (d) None of these
- 56. A man facing towards North-West turns Left, Right, Right, Right, Left in series. In which direction now he is?
 - (a) North
- (b) South-West
- (c) South
- (d) N-East

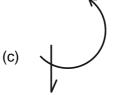


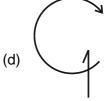
57. Find the mirror image of











- 58. Pick the odd one
 - (a) Tree Stem
- (b) Book Page
- (c) Chair TV
- (d) Car Wheel
- 59. If '*' mean 'X', '\$' means '+', '#' means '÷' and '(C) means '-'; then what will be the value of the following expressions ?

36 # 24 \$ 56 * 5 (C) 48

- (a) 253
- (b) 242
- (c) 247
- (d) 285
- 60. If P denotes 'X', T denotes '-', Y denotes '+' and Z denotes '÷'? then

28 Z 7 P 8 T 6 Y 4 is_

- (a) 15
- (b) 30
- (c) 32
- (d) 34
- 61. ABCDEFGHIJKLMNOPQRSTUVWXYZ

D K is to I H as K R is to_____

- (a) PO
- (b) OP
- (c) MP
- (d) P M

- 62. 8 is to 256 as 6 is to
 - (a) 106
- (b) 205
- (c) 202
- (d) 108
- 63. Choose the word which is least like the others. Words in a group?
 - (a) Zinc
- (b) Aluminium
- (c) Mercury
- (d) Copper

64. Resembles the mirror images of the given word.

MAGAZINE

(a) MAGAZINE

(p) AMGAZINE

(c) BNIZADMA

MAGAZINE (b)

65. Find the image mirror











(c)



(d)





ANSWER KEY

PHSICS CHE		EMISTRY MA		THEMATICS	-	MENTAL	
1.	(D)	16.	(B)	31.	(B)	:	<u>ABILITY</u>
2.	(B)	17.	(D)	32.	(B)	51.	()
3.	(A)	18.	(A)	33.	(B)	52.	()
4.	(C)	19.	(B)	34.	(A)	53.	()
5.	(B)	20.	(D)	35.	(C)	54.	()
6.	(C)	21.	(A)	36.	(B)	55.	()
7.	(A)	22.	(B)	37.	(B)	56.	()
8.	(C)	23.	(A)	38.	(B)	57.	()
9.	(C)	24.	(B)	39.	(C)	58.	()
10.	(B)	25.	(A)	40.	(C)	59.	()
11.	(B)	26.	(A)	41.	(A)	60.	()
12.	(D)	27.	(D)	42.	(A)	61.	()
13.	(D)	28.	(C)	43.	(A)	62.	()
14.	(C)	29.	(B)	44.	(A) (B)	63.	()
15.		30.		45.	(C)	64.	()
13.	(D)	30.	(A)	46.		65.	()
					(A)		
				47.	(C)		
				48.	(B)		
				49.	(A)		
				50.	(C)		