PART-I

01.	One-fourth of a circular disk is called a					
	a) Semi-circle	b) Quadrant	c) Sector	d) Arc		
02.	The base of a parallel area is	ogram is 14 cm, and i	ts distance from the o	pposite side is 8 cm. Then its		
	a) 144 cm ²	b) 64 cm ²	c) 76 cm ²	d) 112 cm ²		
03.	In an examination, 30% both the subjects. The	% candidates failed in percentage of total pa	English, 35% failed in seed is	Mathematics and 27% failed in		
	a) 61%	b) 65%	b) 60%	d) 62%		
04.	The degree of 5xy ² + 4	x ² is				
	a) 1	b) 2	c) 3	d) 4		
05.	If a path of uniform wid		e outside of a rectangu	ular filed 24 m x 18 m, then the		
8		b) 446	c) 497	d) 465		
06.	The device used to tes		naterial allows electric	current to pass through it or not		
	a) Tester	The state of the s	c) Capacitor	d) Battery		
07.	Which of the following	liquids is a poor condu	ctor of electricity?			
	a) Lemon juice		c) Sugar solution	d) Salt solution		
08.	When two forces act a		n on an object, then th	e net force acting on the object		
	a) the average	b) less than the sum	c) greater than the	sum d) equal to the sum		
09.	Two objects, A and E following statements is		, are moving with the	same velocity. Which of the		
	a) Friction on A is in th c) Friction on B is in th	e forward direction e forward direction	b) Friction on A is id) No friction act be	n the backward direction etween A and B		
10.	If an object oscillates 8	0 times per second, it	is said to have a freque	ency of		
	a) 80 sec	b) 80 Hz	c) 80 hr	d) 0.0125 Hz		
11.	Which of the following	celestial bodies appea	rs to change its positio	n with respect to the stars?		
	a) The Earth	b) Constellations	c) The Milky way	d) Galaxies		
12.	L.P.G stands for					
	a) liquid petroleum gas c) liquid petrol gas	Caretality to	b) liquefied petroled) liquefied petrol g			
13.	A box kept on a rough friction between the bo		m the top. While movi	ng the box, we observe that the		
	a) increases	b) decreases	c) remains the sam	ne d) becomes zero		
14.	Light travels along a _					
	a) straight line d) straight line for som	b) circular path e distance and then tra	c) zigzag path avels in a zigzag path	· · ·		
15.	Which of the following a) A board painted bla c) Carbon suit		of light? b) A black body d) A mirror			

16.	The reminder when	$2x^{\circ} - 5x^{\circ} - 7$ is divisible	by x - 2 is	W 74.		
	a) 12,	b) 1,	c) -9,	d) 2		
17.	The three vertices of fourth vertex D is	a rectangle ABCD are A	A(2, - 3), B(5, - 3) and C(5, 0). The coordinates		
	a) (2, - 3)	b) (2, 0) c) (0, 5) d) (5, -3)			
18.	The area of an equ	ilateral triangle whose pe	rimeter is 36√3 cm is	militiate to of		
	4 5 14 14	b) 108 √3 cm², c)		98√3 cm²		
19.	What is the area of a triangle whose base is 5 cm and height 14 cm					
,	a) 35 cm ²	b) 45 cm ²	c) 25 cm ²	d) 30 cm ²		
20.	Simplify : 27 1/6 x 2	7 1/2				
	a) 12	b) 21	c) 15	d) 9		
21.	Find the area of a t	riangle with sides 28 cm	21 cm and 35 cm.			
	a) 294 cm ²	b) 220 cm²	c) 268 cm²	d) 282 cm ²		
22.	Two sides of a tria Also, find the length	ngle with perimeter 112 h of altitude corresponding	cm are 50 cm and 48 cm	Find the area of the triangle		
	a) 235 cm	b) 336 cm ²		282 cm²		
23.	The remainder who	en – 3x² + 7x² – 71 is di v	ided by x + 4 is	=		
	a) 5	b) 0	0.6	d) 9		
24.	A plane surface is	a surface which lies ever	nly with the	on itself.		
	a) Points	b) Curved lines	c) Straight lines	d) Area		
	a tel almost a					
25.		gle is 24cm ² . The length	of the altitude to side 10	cm is		
	a) 4.6 cm	b) 4.4 cm	c) 4.8 cm	d) 4 cm		
26.	The measure of an	angle that is 72° more th	nan its supplement is			
	a) 162°	b) 126 ⁰	c) 66 ⁰	d) 81 ⁰		
27.	Find the value of 6	06 ³				
!	a) 219256227	b) 291256272	c) 219256722	d) 234256227		
28.	Find (-3)4 x (-9)			4) 20-20022)		
	a) 50949	b) 54909	c) 59094	d) 59049		
29.	Evaluate: 23.4 x	22.6		-11-2-10		
Zasaya, Sa	a) 528.89	b) 528.84	c) 548.84	d) 538.89		
30.	The region occupie	ed by a simple closed figu	(2) Official and the control of the			
	a) Length	b) Volume	c) Perimeter	d) Area		

31.	It was Sunday on Ja	anuary 1, 2006. What was	the day of the week Jar	nuary 1, 2010?
	a) Sunday 4	b) Saturday	c) Friday	d) Wednesday
32.	Today is Monday.	After 61 days, it will be		
	a) Wednesday	b) Saturday	c) Tuesday	d) Thursday
33.		are sitting in a row. S an		and P are at the ends. R
	a) A	b) X	c) S	d) Z
34.	Entomology is the s	cience that studies		
	a) Behavior of huma	an beings story of technical and Scie	b) Insects ntific terms	d) The formation of rocks
35.	For which of the foll	owing disciplines in Nobel	Prize awarded?	
	a) Physics and Che c) Literature, Peace	mistry and Economics	b) Physiology or Med d) All of the above	licine
36.	In which year of Fire	st World War Germany dec	clared war on Russia an	d France?
	a) 1914	b) 1915	c) 1916	d) 1917
37.	India has largest de	posits of	in the world	
	a) Gold	b) Copper	c) Mica	d) none of the above
38.	The unit of current i	s		
	a) Ohm	b) Watt	c) Ampere	d) none of the above
39.	Where is the High (Court of Odisha?	May 1	
	a) Bhubaneswar	b) Cuttack	c) Both	d) none of these
40.	The members of the	e Rajya Sabha are elected	by.	3 B P, * B
	a) the people c) elected members	s of the legislative assemb	b) Lok Sabha ly d) elected members	of the legislative council
41.	The present Lok Sa	bha is the	er unite i est a frasti se unite i e	1.
	a) 9 th Lok Sabha	b) 10 th Lok Sabha	c) 14 th Lok Sabha	d) 15 th Lok Sabha
42.	The largest Indian	State by population		
	a) Rajasthan	b) Maharashtra	c) Uttar Pradesh	d) Madhya Pradesh
43.	120, 99, 80, 63, 48,	?	- 17 3K HE 200	
	a) 35	b) 38	c) 39	d) 40
44.	In the series 2, 6, 1	8, 54, what will be the	e 8 th term ?	
	a) 4370	b) 4374	c) 7443	d) 7434
	sig pills			
45.	The brain of any co	63		
	a) ALU	b) Memory	c) CPU	d) none of the above

46.	A mirror changes the direction of light that falls on it. This property is called of light.					
	a) changing	b) bending	c) spreading	d) reflection		
47.	Travelling at an avera The distance between	ge speed of 50 kmph the two places is	n, a car takes 3 hours to g	o from Chennal to Pondicherr	y.	
	a) 200	b) 150	c) 100	d) 400		
48.	Ram is observing his then the distance betw	image in a plane mi	rror, If the distance between the mirror ism.	en Ram and the mirror is 4 n	n,	
	a) 4	b) 8	c) 2	d) 16		
49.	The Boiling point of water on Fahrenheit scale is0 F.					
	a) 100	b) 80	c) 212	d) 32		
50.	A rocket works on the					
	a) first law of motion c) third law of motion		b) second law of m d) law of conservat	otion on of energy		
51.	If no force acts on a b	ody, it will		James 15		
	a) break		b) get deshaped	. A Sub-common miles		
	c) move with increasir	ng velocity		rest or move with same speed	i.	
52.	SI unit of pressure is			/		
	a) pascal	b) atmosphere	c) dyne/cm²	d) mm of mercury		
53.	The heat from the sun	comes to us by the	process of			
	a) conduction	b) convection	c) radiation	d) all of these		
54.	The normal temperatu	re of the human bod	vis	*		
	a) 37 ⁰ C	b) 38 ⁰ C	c) 36.8 ⁰ C	d) 33 ⁰ C		
55.	On increasing the external pressure, the boiling point of a liquid					
	a) is raised	b) is lowered	c) remains unaffect			
56.	A train 125 m long pagoing, in 10 seconds	asses a man, runnin The speed of the tra	g at 5 km/hr in the same	direction in which the train	is	
	a) 45 km/hr	b) 50 km/hr	c) 54 km/hr	d) 55 km/hr		
57.	Two trains running in 17 seconds respective	opposite directions only and they cross ea	cross a man standing on t ch other in 23 seconds. T	he platform in 27 seconds an he ratio of their speeds is	d	
-	a) 1:3	b) 3:2	c) 3 : 4	d) none of these		
58	A train passes a statio the speed of the train i	n platform in 36 secons 54 km/hr, what is the	onds and man standing or he length of the platform?	the platform in 20 seconds.	lf :	
	a) 120 m	b) 240 m	c) 300 m	d) none of these		
59.	Father is aged three times of Ronit's age.	times more than his After further 8 years,	son Ronit. After 8 years	s, he would be two and a ha	lf	
	a) 2 times	b) 2 ½ times	c) 2 ¾ time	d) 3 times		
60.	The sum of ages of 5 the youngest child?	children born at the i	ntervals of 3 years each is	s 50 years. What is the age of)f	
*	a) 4 years	b) 8 years	c) 10 years	d) none of these		

PART - II

Write answer in Answer Sheet only.

01.	When the direction of current in a conductor is reversed, then the deflection of the needle of the compass placed near a current carrying conductor	
02.	Current carrying conductor placed in a magnetic field experiences a force. The device based or the principle is	1
03.	If a force of 75 N acting on an object produces an acceleration of 1.5 m/s ² in it, then, the mass of	
	Kg.	
04.	The distance through which a body moves when a constant force of 10 N acts on it to change its	
	KE from 20 J to 40 J is m.	
		88
05.	Gold and Silver and Art	
00.	Gold and Silver are used for making jewellery. Which of the property of the metals make them suitable for making jewellery?	ì
	suitable for making jewellery?	
06.	A man who weighs 70 kg climbs a staircase carrying a 10 kg load on his head. The staircase has 25 steps and each step is 25 cm height. The work done by the person is J.	;
	J.	
	The state of the s	
07.:	A body in motion comes to rest when force is applied on it. The work done by the force on the	
	body is	i.e.
	A THE STATE OF BUILDING THE STATE OF THE STA	
08.	When two special masses possess the care management is	
	When two unequal masses possess the same momentum, then, the kinetic energy of the heavier mass is the kinetic energy of the lighter mass.	
	the state of the second of	
09.	Automobiles are fitted with a device that shows the distance traveled, which is known as	
	d dovide triat shows the distance traveled, which is known as	
10.	A body starting from rest travels with uniform acceleration. If it travels 200 m in 10 s, then the value of the acceleration is m/s ² .	

11.	$A + B = \frac{\pi}{2}$	and sin A =	1, then sin E
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12	If √3 tan A =	1, then the value of A is	

14. If
$$tan (A + B) = \sqrt{3}$$
 and $tan A = 1$, then $\angle B =$

- The area of three rectangular fields are 165 m², 195 m² and 285 m². The three fields are divided into some smaller rectangular parts of equal area. If the breadth of each part is 3 m, then the length of each part is _____ m.
- 17. The zeroes of the quadratic polynomial x² 3x 4 are _____

- 19. The number 32760 can be expressed in the form of product of prime exponents as ______
- 20. A hemispherical bowl of radius 18 cm is full of water and the water is poured into cylindrical bottles of each diameter 3 cm and height 4 cm. Then the number of bottles required to empty the bowl is
