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J	OIN MY PAID WHA	TSAPP GROUP 805	6206308 FOR DPP	S WITH ANSWERS	
Q1.	The radius of a sphere (in cr	m) whose volume is $12\pi~{ m cm}^3$, is:		1 Mark
	A 3	B $3\sqrt{3}$	$c_{3^{\frac{2}{3}}}$	D $3^{\frac{1}{3}}$	
Q2.		•	in be cut out from a cube Of e	· ·	1 Mark
	A 4.2	B 2.1	C 8.4	D 1.05	
Q3.	If p - 1, p + 1 and 2p + 3 are	in A.P., then the value of p is:			1 Mark
	A -2	B 4	C 0	D 2	
Q4.	•	is dropped into a cylindrical ven the water level rises (in cm	•	y filled with water. If the sphere	1 Mark
	A 3	B 4	C 5	D 6	
Q5.		right circular cylinder is halve I to the volume of original cylir		e, then the ratio of the volume	1 Mark
	A 1:2	B 2:1	C 1:4	D 4:1	
Q6.	IFor θ = 30°, the value of (2	$\sin heta \cos heta$) is:			1 Mark
	A 1	$\mathbf{B} = \frac{\sqrt{3}}{2}$	$\mathbf{C} = \frac{\sqrt{3}}{4}$	D $\frac{3}{2}$	
Q7.	The value of x for which 2x.	4	hree consecutive terms of an	2	1 Mark
	A 6	B -6	C 18	D -18	
Q8.		an event is denoted by p and p	orobability of non-happening o		1 Mark
Q9.	A p + q = 1 A solid right circular cone is volume of the smaller cone to	cut into two parts at the middl	C p = q - 1 e of its height by a plane para	D p + a + 1 = 0 llel to its base. The ratio of the	1 Mark
	A 1:2	B 1:4	C 1:6	D 1:8	
Q10	In an A.P., if the first term a	= 7, nth term $a_n = 84$ and the	sum of first n terms $s_n=\frac{2093}{2}$	$\frac{3}{2}$, then n is equal to:	1 Mark
	A 22	B 24	C 23	D 26	
Q11	.The area of metal sheet req	uired to make a closed hollow	cylinder of height 2.4m and b	ase radius 0.7m, is.	1 Mark
	A 10.56m ²	B 13.52m ²	C 13.64m ²	D 14.08m ²	
Q12		a cone having height 24cm ar		2	1 Mark
	A 528cm ²	B 1056cm ²	C 550cm ²	D 500cm ²	
Q13			· 5 and 5 <i>y</i> + 1. Then y equals:		1 Mark
	A -3	B 4	C 5	D 2	
Q14			sum of all the terms is 400, the		1 Mark
	A 20	B 8	C 10	D 16	
Q15			gth $5\pi\mathrm{cm}$ is equal to $20\pi\mathrm{cm}^2$		1 Mark
4.0	A 12cm	B 16cm	C 8cm	D 10cm	
Q16	.Which term of the AP 21, 42		C OCITI	D TOCH	1 Mark
QIO			• 44th	D 40th	1 Mark
017	A solid is homisphorical at the	B 10 th	C 11 th	D 12 th	1 Mark
Q17	of its radius and the height of		ir the surface areas of the two	parts are equal, then the ratio	1 Wark
	A 1:3	B $1:\sqrt{3}$	C 1:1	D $\sqrt{3}:1$	
Q18	The surface area of a spherodiameter are 12cm each. Th		ce area of a right circular cylin	der whose height and	1 Mark
	A 3cm	B 4cm	C 6cm	D 12cm	
Q19	.The area of the incircle of ar	n equilateral triangle of side 42	2cm is:		1 Mark

B 231cm²

A $22\sqrt{3}\mathrm{cm}^2$

C 462cm ²		D 924cm ²		
Q20. A right triangle with si so formed is:	ides 3cm, 4cm and 5cm is rotat	ted about the side of 3cm to	o form a cone. The volume of the cone	1 Mark
A $12\pi\mathrm{cm}^3$	B $15\pi\mathrm{cm}^3$	C $16\pi\mathrm{cm}^3$	D $20\pi\mathrm{cm}^3$	
Q21.Mark the correct alter	•			1 Mark
If 18 th and 11 th term o	of an A.P. are in the ratio 3 : 2, t	hen its 21 st and 5 th terms a	re in the ratio:	
A 3:2	B 3:1	C 1:3	D 2:3	
Q22. The area of the large	st triangle that can be inscribed	l in a semi-circle of radius r,	, is:	1 Mark
A r ²	B 2r ²	C r ³	D 2r ³	
Q23.In the following figure	, the area of segment ACB is:			1 Mark
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A $(\pi \sqrt{3})_{-2}$		$\mathbf{B} \left(\pi + \sqrt{3} \right)_{-2}$		
$\left(\frac{1}{3} - \frac{1}{2}\right)$ r		B $\left(rac{\pi}{3}+rac{\sqrt{3}}{2} ight)$ r 2		
$\left(rac{\pi}{3}-rac{\sqrt{2}}{3} ight)\!\mathrm{r}^2$		D None of these		
,	nswer from the given four optio	ns:		1 Mark
A surahi is the combi	nation of:			
A A sphere and a cyl	inder.	B A hemisphere and	d a cylinder.	
C Two hemispheres.	•	D A cylinder and a c	cone.	
Q25.The sum of first n terr	ms of an AP is $(4n^2 + 2n)$. The	nth term of this AP is:		1 Mark
A (6n - 2)	B (7n - 3)	C (8n - 2)	D (8n + 2)	
Q26.A cylindrical pencil sh	narpened at one edge is the co	mbination of:		1 Mark
A A hemisphere and	•	B A cone and a hen	·	
C A frustum of a cond	•	D A cone and a cyli	nder	4 84
Q27. If 4, x_1 , x_2 , x_3 , 28 are				1 Mark
A 19	B 23	C 22	D Cannot be determined	4 Manta
	P is -1 its 16th term is 17. The r			1 Mark
A (3n + 8)	B (4n - 7)	C (15 - 2n)	D (2n - 15)	4 Moule
•	•		sand. This bucket is emptied on the s 24cm, the radius of its base is:	1 Mark
A 12cm	В 24cm	C 36cm	D 48cm	
	two spheres are in e ratio 16: 9			1 Mark
A 64 : 27	B 16:9	C 4 : 3	D 16 ³ : 9 ³	
Q31. $S_n - S_n - 1 =$	2 10.0			1 Mark
A a _n + 1	B None of these	C a _n - 1	D a _n	
Q32. An AP 5, 12, 19,ha		o an i	2 an	1 Mark
A 343	B 353	C 348	D 362	
	P. then the relation between the		5 002	1 Mark
A 2c = a + b	B 2a = b + c	C a = b + c	D 2b = a + c	
	the pieces given below will no			1 Mark
A K	B H	C J	D I	
			d a side are respectively equal, is:	1 Mark
A 1. $\pi:\sqrt{2}$		B $\pi:\sqrt{3}$	₋	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		□ n. vo		
3.				
C $\sqrt{3}:\pi$		D $\sqrt{2}:\pi$		

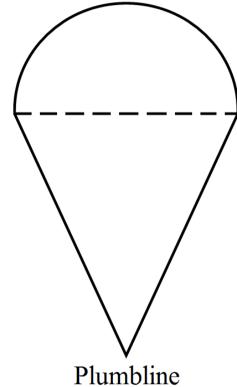
	.Mark the correct alternative in S_r denotes the sum of the	in the following: first r terms of an A.P. Then, S	_{3n} : (S _{2n} - S _n) is:		1 Mark
	A n	B 3n	C 3	D None of these.	
Q37.	.The nth term of an A.P. is 7 -	4n, then its common difference	ce is:		1 Mark
	A -4	B -3	C 3	D 4	
		s as high as it is broad and 8 t	imes as long as it is high, is 1	28m ³ . The breadth of the wall	1 Mark
	is:	· ·			
	A 30cm	B 40cm	C 22.5cm	D 25cm	
	.Mark the correct alternative i				1 Mark
		erm of an A.P, are a, b and 2a	respectively, its sum is		
	A <u>ab</u>		$\mathbf{B} \frac{\mathrm{ab}}{(\mathrm{b-a})}$		
	$\mathbf{A} \frac{\mathrm{ab}}{2(\mathrm{b-a})}$		\		
	$\mathbf{C} \frac{3ab}{2(b-a)}$		D None of these.		
Q40.	.Which term of the AP 72, 63	54,is 0?			1 Mark
	A 8 th	B 9 th	C 10 th	D 11 th	
Q41.	The volumes of two spheres	are in the ratio 64: 27. The ra	tio of their surface areas is:		1 Mark
	A 1:2	B 2:3	C 9:16	D 16:9	
Q42.	.Tick the correct answer in the	e following:			1 Mark
	Area of a sector of angle p (i	n degrees) of a circle with rad	ius R is,		
	A $rac{ m p}{180} imes 2\pi { m R}$		B $rac{ m p}{180} imes 2\pi { m R}^2$		
	$oldsymbol{C} \stackrel{180}{\overset{180}{\sim}} imes 2\pi\mathrm{R}$		$oldsymbol{D} frac{\mathrm{p}}{720} imes 2\pi\mathrm{R}^2$		
			. = 0	How long will it take to fill up a	1 Morle
		ter at the base is 40cm and de	• •	How long will it take to fill up a	TWATK
			•		
	A 48 minutes 15 sec	B 51 minutes 12 sec	C 52 minutes 1 sec	D 55 minutes	4.5.
	.Mark the correct alternative i	· ·	. i		1 Mark
		P. is q and the sum of q terms	s is p, then the sum of p + q to	erms will be:	
	0				
	A 0	B p - q	C p + q	$\mathbf{D} - (p + q)$	4.55
Q45.	. The volumes of two cubes a	re in the ratio 1 : 27. The ratio	of their surface area is:		1 Mark
		— 4 0	C 1:9	D 1:18	
	A 1:3	B 1:8			
Q46.	.A medicine capsule is in the	shape of a cylinder of diamete	er 0.5cm with a hemisphere tu	icked at each end. The length	1 Mark
Q46.	.A medicine capsule is in the		er 0.5cm with a hemisphere tu	icked at each end. The length	1 Mark
Q46.	.A medicine capsule is in the	shape of a cylinder of diameter. The capacity of the capsule is	er 0.5cm with a hemisphere tu	D 0.36 cm ²	1 Mark
Q46.	A medicine capsule is in the of the entire capsule is 2cm. • 0.33 cm²	shape of a cylinder of diamete The capacity of the capsule is	er 0.5cm with a hemisphere tu :: C 0.35 cm ²	_	1 Mark 1 Mark
Q46. Q47.	A medicine capsule is in the of the entire capsule is 2cm. • 0.33 cm²	shape of a cylinder of diameter. The capacity of the capsule is $\mathbf{B} \ 0.34 \ \mathrm{cm}^2$	er 0.5cm with a hemisphere tu :: C 0.35 cm ²	_	
Q46. Q47.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² The area of the largest triang A 2r	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a s	er 0.5cm with a hemisphere tu :: C 0.35 cm ² emi-circle of radius r is: C r	D $0.36~\text{cm}^2$	
Q46. Q47. Q48.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² The area of the largest triang A 2r	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a solution B r ² s dropped into a cylindrical vest	er 0.5cm with a hemisphere tu :: C 0.35 cm ² emi-circle of radius r is: C r	D $0.36~\text{cm}^2$	1 Mark
Q46. Q47. Q48.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² The area of the largest triang A 2r A sphere of diameter 18cm is completely submerged, the	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a solution B r ² s dropped into a cylindrical vest	er 0.5cm with a hemisphere tu :: C 0.35 cm ² emi-circle of radius r is: C r	D $0.36~\text{cm}^2$ D \sqrt{r} filled with water. If the sphere	1 Mark
Q46. Q47. Q48.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² The area of the largest triang A 2r A sphere of diameter 18cm is completely submerged, the	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a second of the capsule in the water level rises by:	er 0.5cm with a hemisphere to c: C 0.35 cm ² emi-circle of radius r is: C r ssel of diameter 36cm, partly C 5cm	D $0.36~{\rm cm^2}$ D \sqrt{r} filled with water. If the sphere	1 Mark
Q46. Q47. Q48. Q49.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² The area of the largest triang A 2r A sphere of diameter 18cm is completely submerged, the	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a second of the capsule in the water level rises by: B 4cm	er 0.5cm with a hemisphere to c: C 0.35 cm ² emi-circle of radius r is: C r ssel of diameter 36cm, partly C 5cm	D $0.36~\text{cm}^2$ D \sqrt{r} filled with water. If the sphere	1 Mark 1 Mark
Q46. Q47. Q48. Q49.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² The area of the largest triang. A 2r A sphere of diameter 18cm is completely submerged, the same size of each sphere is:	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a set of the capsule in the capsule in the water level rises by: B 4cm are made from melting a solice.	er 0.5cm with a hemisphere to a constant of the constant of th	${\bf D}~0.36~{\rm cm^2}$ ${\bf D}~\sqrt{r}$ filled with water. If the sphere ${\bf D}~6{\rm cm}$ and 2cm height. The diameter	1 Mark 1 Mark
Q46. Q47. Q48. Q49.	A medicine capsule is in the of the entire capsule is 2cm. A $0.33~\rm cm^2$. The area of the largest triang A $2r$. A sphere of diameter 18cm is completely submerged, the A $3cm$. 12 spheres of the same size of each sphere is: A $\sqrt{3}cm$	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a set of the capsule in a set of the capsule in a set of the water level rises by: B 4cm are made from melting a solice.	er 0.5cm with a hemisphere to a constant of the constant of th	${f D}$ 0.36 cm ² ${f D}$ \sqrt{r} filled with water. If the sphere ${f D}$ 6cm and 2cm height. The diameter ${f D}$ 4cm	1 Mark 1 Mark 1 Mark
Q46. Q47. Q48. Q49.	A medicine capsule is in the of the entire capsule is 2cm. A $0.33~\rm cm^2$. The area of the largest triang A $2r$. A sphere of diameter 18cm is completely submerged, the A $3cm$. 12 spheres of the same size of each sphere is: A $\sqrt{3}cm$. The curved surface area of a $3cm$.	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a set of the capsule in the capsule in the water level rises by: B 4cm are made from melting a solice of the capsule in the capsule is capsule in the capsule in the capsule in the capsule is capsule in the cap	er 0.5cm with a hemisphere to complete to	${f D}$ 0.36 cm ² ${f D}$ \sqrt{r} filled with water. If the sphere ${f D}$ 6cm and 2cm height. The diameter ${f D}$ 4cm diameter to its height is:	1 Mark 1 Mark
Q46. Q47. Q48. Q49.	A medicine capsule is in the of the entire capsule is 2cm. A $0.33~\rm cm^2$. The area of the largest triang A $2r$. A sphere of diameter 18cm is completely submerged, the A $3cm$. 12 spheres of the same size of each sphere is: A $\sqrt{3}cm$. The curved surface area of a $3:7$	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a set of the capsule in the capsule in the water level rises by: B 4cm are made from melting a solice B 2cm a cylinder is 264m ² and its volume is 264m ² .	er 0.5cm with a hemisphere to a constant of the constant of th	${f D}$ 0.36 cm ² ${f D}$ \sqrt{r} filled with water. If the sphere ${f D}$ 6cm and 2cm height. The diameter ${f D}$ 4cm	1 Mark 1 Mark 1 Mark
Q46. Q47. Q48. Q49. Q50.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² The area of the largest triang A 2r A sphere of diameter 18cm is completely submerged, the same size of each sphere is: A $\sqrt{3}$ cm The curved surface area of a A 3:7 Mark the correct alternative is	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a set of the capsule in the capsu	er 0.5cm with a hemisphere to complete to	${f D}$ 0.36 cm ² ${f D}$ \sqrt{r} filled with water. If the sphere ${f D}$ 6cm and 2cm height. The diameter ${f D}$ 4cm diameter to its height is:	1 Mark 1 Mark 1 Mark
Q46. Q47. Q48. Q49. Q50.	A medicine capsule is in the of the entire capsule is 2cm. A $0.33~\rm cm^2$. The area of the largest triang A $2r$. A sphere of diameter 18cm is completely submerged, the A $3cm$. 12 spheres of the same size of each sphere is: A $\sqrt{3}cm$. The curved surface area of a $3:7$	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a set of the capsule in the capsu	er 0.5cm with a hemisphere to complete to	${f D}$ 0.36 cm ² ${f D}$ \sqrt{r} filled with water. If the sphere ${f D}$ 6cm and 2cm height. The diameter ${f D}$ 4cm diameter to its height is:	1 Mark 1 Mark 1 Mark
Q46. Q47. Q48. Q49. Q50.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² The area of the largest triang A 2r A sphere of diameter 18cm is completely submerged, the same size of each sphere is: A $\sqrt{3}$ cm The curved surface area of a A 3:7 Mark the correct alternative is	shape of a cylinder of diameter. The capacity of the capsule is B 0.34 cm ² gle that can be inscribed in a set of the capsule in the capsu	er 0.5cm with a hemisphere to complete to	${f D}$ 0.36 cm ² ${f D}$ \sqrt{r} filled with water. If the sphere ${f D}$ 6cm and 2cm height. The diameter ${f D}$ 4cm diameter to its height is:	1 Mark 1 Mark 1 Mark
Q46. Q47. Q48. Q49. Q50.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² . The area of the largest triang A 2r. A sphere of diameter 18cm is completely submerged, the A 3cm. 12 spheres of the same size of each sphere is: A $\sqrt{3}$ cm. The curved surface area of a A 3:7. Mark the correct alternative if $\frac{5+9+13+, \text{ to n terms}}{7+9+11+,\text{ to (n+1) term}} = \frac{5+9+13+,}{7+9+11+,}$	shape of a cylinder of diameter. The capacity of the capsule is \mathbf{B} 0.34 cm ² gle that can be inscribed in a set \mathbf{B} r ² as dropped into a cylindrical verse the water level rises by: \mathbf{B} 4cm are made from melting a solice \mathbf{B} 2cm a cylinder is 264m ² and its volume \mathbf{B} 7 : 3 In the following: \mathbf{E} $\frac{17}{16}$, then \mathbf{n} = \mathbf{B} 7	er 0.5cm with a hemisphere to complete to	${f D}$ 0.36 cm ² ${f D}$ \sqrt{r} filled with water. If the sphere ${f D}$ 6cm and 2cm height. The diameter ${f D}$ 4cm diameter to its height is: ${f D}$ 7:6	1 Mark 1 Mark 1 Mark
Q46. Q47. Q48. Q49. Q50. Q51.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm^2 . The area of the largest triang A $2r$. A sphere of diameter 18cm is completely submerged, the A 3cm . 12 spheres of the same size of each sphere is: A $\sqrt{3}\text{cm}$. The curved surface area of a $3:7$. Mark the correct alternative if $\frac{5+9+13+, \text{ to n terms}}{7+9+11+, \text{ to (n+1) term}} = $ A 8	shape of a cylinder of diameter. The capacity of the capsule is \mathbf{B} 0.34 cm ² gle that can be inscribed in a set \mathbf{B} r ² as dropped into a cylindrical verse the water level rises by: \mathbf{B} 4cm are made from melting a solice \mathbf{B} 2cm a cylinder is 264m ² and its volue \mathbf{B} 7 : 3 In the following: $\mathbf{E} = \frac{17}{16}$, then $\mathbf{n} = \mathbf{B}$ 7 From the given four options:	er 0.5cm with a hemisphere to complete to	${f D}$ 0.36 cm ² ${f D}$ \sqrt{r} filled with water. If the sphere ${f D}$ 6cm and 2cm height. The diameter ${f D}$ 4cm diameter to its height is: ${f D}$ 7:6	1 Mark 1 Mark 1 Mark 1 Mark
Q46. Q47. Q48. Q49. Q50. Q51.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm^2 . The area of the largest triang A $2r$. A sphere of diameter 18cm is completely submerged, the A 3cm . 12 spheres of the same size of each sphere is: A $\sqrt{3}\text{cm}$. The curved surface area of a $3:7$. Mark the correct alternative if $\frac{5+9+13+, \text{ to n terms}}{7+9+11+,\text{ to }(n+1) \text{ term}} = A 8$. Choose the correct answer for the same of $3:7$.	shape of a cylinder of diameter. The capacity of the capsule is \mathbf{B} 0.34 cm ² gle that can be inscribed in a set \mathbf{B} r ² as dropped into a cylindrical verse the water level rises by: \mathbf{B} 4cm are made from melting a solice \mathbf{B} 2cm a cylinder is 264m ² and its volue \mathbf{B} 7 : 3 In the following: $\mathbf{E} = \frac{17}{16}$, then $\mathbf{n} = \mathbf{B}$ 7 From the given four options:	er 0.5cm with a hemisphere to complete to	${f D}$ 0.36 cm ² ${f D}$ \sqrt{r} filled with water. If the sphere ${f D}$ 6cm and 2cm height. The diameter ${f D}$ 4cm diameter to its height is: ${f D}$ 7:6	1 Mark 1 Mark 1 Mark 1 Mark
Q46. Q47. Q48. Q49. Q50. Q51.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² The area of the largest triang A 2r A sphere of diameter 18cm is is completely submerged, the A 3cm 12 spheres of the same size of each sphere is: A $\sqrt{3}$ cm The curved surface area of a A 3:7 Mark the correct alternative if $\frac{5+9+13+, \text{ to n terms}}{7+9+11+, \text{ to (n+1) term}} = A 8$ Choose the correct answer for an AP, if a = 3.5, d = 0, n = A 0	shape of a cylinder of diameter. The capacity of the capsule is \mathbf{B} 0.34 cm ² gle that can be inscribed in a set \mathbf{B} r ² as dropped into a cylindrical verse the water level rises by: \mathbf{B} 4cm are made from melting a solice \mathbf{B} 2cm a cylinder is 264m ² and its volue \mathbf{B} 7 : 3 in the following: $\mathbf{E} = \frac{17}{16}$, then $\mathbf{n} = \mathbf{B}$ 7 from the given four options: \mathbf{B} 101, then $\mathbf{a}_{\mathbf{n}}$ will be:	cr 0.5cm with a hemisphere to complete to	D $0.36 \mathrm{cm^2}$ D $\sqrt{\mathrm{r}}$ filled with water. If the sphere D 6cm nd 2cm height. The diameter D 4cm diameter to its height is: D 7:6	1 Mark 1 Mark 1 Mark 1 Mark
Q46. Q47. Q48. Q50. Q51.	A medicine capsule is in the of the entire capsule is 2cm. A 0.33 cm ² The area of the largest triang A 2r A sphere of diameter 18cm is is completely submerged, the A 3cm 12 spheres of the same size of each sphere is: A $\sqrt{3}$ cm The curved surface area of a A 3:7 Mark the correct alternative if $\frac{5+9+13+, \text{ to n terms}}{7+9+11+, \text{ to (n+1) term}} = A 8$ Choose the correct answer for an AP, if a = 3.5, d = 0, n = A 0	shape of a cylinder of diameter. The capacity of the capsule is \mathbf{B} 0.34 cm ² gle that can be inscribed in a set \mathbf{B} r ² as dropped into a cylindrical verse the water level rises by: \mathbf{B} 4cm are made from melting a solice \mathbf{B} 2cm a cylinder is 264m ² and its volue \mathbf{B} 7 : 3 In the following: $\mathbf{E} = \frac{17}{16}$, then $\mathbf{n} = \mathbf{m} = $	cr 0.5cm with a hemisphere to complete to	D $0.36 \mathrm{cm^2}$ D $\sqrt{\mathrm{r}}$ filled with water. If the sphere D 6cm nd 2cm height. The diameter D 4cm diameter to its height is: D 7:6	1 Mark 1 Mark 1 Mark 1 Mark 1 Mark

A $(588\pi)\mathrm{cm}^2$	B $(392\pi)\mathrm{cm}^2$	${f C}~(147\pi){ m cm}^2$	D $(98\pi)\mathrm{cm}^2$	
Q55.If two solid-hemisphe new solid is:	eres of same base radius r are jo	oined together along their b	eases, then curved surface area of this	1 Mark
A $4\pi r^2$	B $6\pi \mathrm{r}^2$	C $3\pi \mathrm{r}^2$	D $8\pi \mathrm{r}^2$	
Q56.A surahi is a combin	ation of:			1 Mark
\mathcal{M}				
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Surahi				
A A sphere and a cy	/linder.	B A hemisphere and	d a cylinder.	
C A cylinder and a c		D Two hemispheres	3.	4 Maula
Q57.Mark the correct alte	ernative in the following: A.P. is 2n + 1, then the sum of fir	st n terms of the A.P. is:		1 Mark
A n(n - 2)	B n(n + 2)	C n(n + 1)	D n(n - 1)	
Q58.The curved surface	are of a cylinder is 1760cm ² and	its base radius is 14cm. The	ne height of the cylinder is:	1 Mark
A 10cm	B 15cm	C 20cm	D 40cm	4 Maula
bucket in cubic centi	•	Ocm are of lengths 35cm a	nd 14cm, then the volume of the	1 Mark
A 60060	B 80080	C 70040	D 80160	1 Mark
area, then diameter		s of a cylinder of fleight oc	m is equal to twice the curve surface	i Wark
A 4cm	B 8cm	C 2cm	D 6cm	
between their volum	e of a cylinder and a cone are in es is:	the ratio 3 : 4. If their heigh	ts are in the ratio 2 : 3, the ratio	1 Mark
A c	B 3:4	C 8:9	D 4:3	
Q62.Directions: In the fo	ollowing questions, a statement o	of assertion (A) is followed l	by a statement of reason (R).Mark the	1 Mark
		ut of a solid cube of lead w	hose edge is 44cm, each ball being	
4cm. in diameter, is Reason: Number of	$ of balls = rac{Volume of one ball}{Volume of lead} $			
•) and reason (R) are true and rea explanation of assertion (A).	,) and reason (R) are true but reason ect explanation of assertion (A).	
()	ue but reason (R) is false.	, ,	alse but reason (R) is true.	4 Maris
	e top and the bottom portions of a the cost of painting its outer su		m respectively. If the height of the e/ cm² is:	1 Mark
A Rs. 1582.50	B Rs. 1724.50	C Rs. 1683	D Rs. 1642	
Q64.If a chord of a circle	of radius 28cm makes an angle	of 90° at the centre, then the	ne area of the major segment is:	1 Mark
A 392cm ²	B 1456cm ²	C 1848cm ²	D 2240cm ²	4 NA!-
Q65.Mark the correct alte	ernative in the following: as of two arithmetic progressions	are in the ratio $\frac{3n+5}{2}$ then	their n th terms are in the ratio	1 Mark
	p990.	5n-7, and $6n$		

	Α	$\frac{3n-1}{5n-1}$		B $\frac{3n+1}{5n+1}$			
		$\frac{5n+1}{3n+1}$		D $\frac{5n-1}{3n-1}$			
			right circular cylinder is halved to the volume of original cylind		e height the sam	e, then the ratio of the volume	1 Mark
	Α	1:2	B 2:1	C 1:4		D 4:1	
		a circle of radius 14cm. an the circle is:	arc subtends an angle of 120	° at the cent	tre. If $\sqrt{3}=1.73$	then the area of the segment	1 Mark
	Α	120.56cm ²	B 124.63cm ²	C 118.24cm	n^2	D 130.57cm ²	
Q68.	Th	e volume of a hemisphere	is 19404cm ³ . The total surfac	e area of the	e hemisphere is:		1 Mark
				C 8316cm ² spectively. Tl		D 3696cm ² g enclosed by these circles is:	1 Mark
	A	320cm ²	B 330cm ²	C 332cm ²		D 340cm ²	
Q70.	Th	e area of a sector whose p	erimeter is four times its radiu	ıs r units, is:			1 Mark
	Α	$\frac{r^2}{4}$ sq. units		B $2r^2$ sq. u:	nits		
		r^2 sq. units		$\mathbf{D} \stackrel{\mathrm{r}^2}{=} \mathrm{sq. un}$	aits		
Q71.	Th	e area of a sector of a circl	le with radius r, making an ang	2			1 Mark
		1. $rac{\mathrm{x}}{180} imes2\pi\mathrm{r}$, 0	_			
		2. $\frac{x}{180} imes \pi r^2$				PAID WHATSAPP GROUP 2025 TO FEB 2026	
	;	3. $\frac{x}{360} imes 2\pi r$				E SUBJECT FULL TEST PAPER	
		4. $rac{ ext{x}}{360} imes\pi ext{r}^2$			TEST GROU	P FEES RS.1000 ONLY	
Q72.	Ма	ark the correct alternative ir	n the following:			INSWERS UPLOAD IN YOUR WHATSAPP ALL SAME PAPERS UPLOAD IN MY	1 Mark
		e common difference of the	•			AN DOWNLOAD AND PRACTICE ST PAPERS & NOTES	
	is					NPP - 8056206308 www.ravitestpapers.com & www.ravitestpapers.in	
	A	-1	B 1	C q	GREGATIALE TEGITIALENG	D 2q	
Q73.	Th	e sum of length, breadth a	nd height of a cuboid is 19cm	and its diag	onal is $\sqrt[5]{5}\mathrm{cm}$. Its	s surface area is	1 Mark
	A	361cm ²	B 125cm ²	C 236cm ²		D 486cm ²	
Q74.	lf tl	he first term of an A.P. is a	and nth term is b, then its con	nmon differe	ence is:		1 Mark
	Α	$\frac{b-a}{n-1}$		$B^{-} \frac{\mathrm{b-a}}{\mathrm{a}}$			
		$\frac{\mathbf{n}-1}{\mathbf{b}-\mathbf{a}}$ $\frac{\mathbf{b}-\mathbf{a}}{\mathbf{n}+1}$		$\begin{array}{c} \mathbf{B} \ \frac{\mathrm{b-a}}{\mathrm{n}} \\ \mathbf{D} \ \frac{\mathrm{b+a}}{\mathrm{n-1}} \end{array}$			
		•	e of two spheres is 8 : 27. Wha	11 1	o between their si	urface areas?	1 Mark
			•	C 5:6		D 4:9	
			tle is $\frac{7}{20}$ of the area of the circ		sector angle is ed		1 Mark
					sector angle is et		· wan
			_	C 100°		D 126°	4 Marile
		-	² . The area of ta square inscri	_			1 Mark
				C 140cm ²		D 150cm ²	4 Mante
Ų/8.	AS	snuttlecock used for playing	g badminton is the combinatio	n ot:			1 Mark
	Α	Cylinder and a hemisphere	e.	B Frustum	of a cone and a h	nemispher.	
		A cone and a hemisphere.		•	r and a spher.		
			pped into a cylindrical vessel npletely, then the surface of th			adius of the vessel is 8cm. If	1 Mark
	A	4.5cm	B 3cm	C 4cm		D 2cm	
Q80.							1 Mark

A rectangular sheet of cylinder (in cm) is:	i papei 400iii ^ 220iii, is i	rolled to form a flollow cyllider of t	reignt 400m. The radius of the	
A 3.5	B 7	c $\frac{80}{7}$	D 5	
Q81.How many terms of th	ne AP 3, 7, 11, 15, will	1		1 Mark
A 10	B 12	C 14	D 20	
	•	ed by a right circular cone. The he hen the height of the cylinder is:	ight of the cone is h. If the total heigh	1 Mark
A 2h	$\mathbf{B} \frac{3h}{2}$	$\mathbf{C} \frac{\mathrm{h}}{2}$	$D \ \frac{2\mathrm{h}}{2}$	
Q83.A cubical block of side	2	a hemisphere. The greatest diamet	ter of the hemisphere is:	1 Mark
A 14cm Q84.The ratio between the surface area of the cy		C 3.5cm he height of a cylinder is 2 : 3. If its	D 7cm s volume is 1617cm ³ , the total	1 Mark
A 308cm ² Q85.Mark the correct alter If the sum of three cor 273, then the third ter	nsecutive terms of an inc	C 540cm ² reasing A.P. is 51 and the product	D 770cm ² of the first and third of these terms is	1 Mark
A 13	B 9	C 21	D 17	
Q86. A hollow sphere of int 8cm. The height of the		ters 4cm and 8cm respectively is r	melted into a cone of base diameter	1 Mark
A 12cm	B 14cm	C 15cm	D 18cm	
Q87. What is 20 th term from	n the end of the AP 3, 8,	13,, 253?		1 Mark
A 163 Q88.In the following figure	B 158 , the shaded area is:	C 153	D 148	1 Mark
		JOIN 10 TH & 12 TH PAID 1 ST DEC 2025 TO		
		UPLOAD DAILY ONE SUBJ	ECT FULL TEST PAPER	
90°	В	UPLOAD DAILY ONE SUBJ TEST GROUP FEES ALL TEST PAPERS WITH ANSWERS FREE USERS CHECK ALL SAME WEBSITES. YOU CAN DOWN	ECT FULL TEST PAPER S RS.1000 ONLY UPLOAD IN YOUR WHATSAPP E PAPERS UPLOAD IN MY NLOAD AND PRACTICE	
$A = 50(\pi - 2)cm^2$	В	TEST GROUP FEES ALL TEST PAPERS WITH ANSWERS FREE USERS CHECK ALL SAME WEBSITES. YOU CAN DOWN RAVI TEST PAPE WHATSAPP — 8 CHECK FREE TEST PAPERS WWW.ravitest	ECT FULL TEST PAPER S RS.1000 ONLY UPLOAD IN YOUR WHATSAPP E PAPERS UPLOAD IN MY NLOAD AND PRACTICE ERS & NOTES	
A $50(\pi-2)\mathrm{cm}^2$ C $25(\pi+2)\mathrm{cm}^2$	B	UPLOAD DAILY ONE SUBJUTEST GROUP FEEST ALL TEST PAPERS WITH ANSWERS FREE USERS CHECK ALL SAME WEBSITES. YOU CAN DOWN RAVI TEST PAPE WHATSAPP — 8 CHECK FREE TEST PAPERS WWW.ravitest. B $25(\pi-2)\mathrm{cm}^2$	ECT FULL TEST PAPER S RS.1000 ONLY UPLOAD IN YOUR WHATSAPP E PAPERS UPLOAD IN MY NLOAD AND PRACTICE ERS & NOTES 8056206308	
C $25(\pi+2)\mathrm{cm}^2$ Q89. The sum of first n terr	· · · ·	UPLOAD DAILY ONE SUBJECT TEST GROUP FEEST ALL TEST PAPERS WITH ANSWERS FREE USERS CHECK ALL SAME WEBSITES. YOU CAN DOWN RAVI TEST PAPER WHATSAPP — 8 CHECK FREE TEST PAPERS WWW.ravitest B $25(\pi-2)\mathrm{cm}^2$ D $5(\pi-2)\mathrm{cm}^2$ The common difference of the AP is	S RS.1000 ONLY UPLOAD IN YOUR WHATSAPP E PAPERS UPLOAD IN MY NLOAD AND PRACTICE ERS & NOTES 8056206308 Epapers.com & www.ravitestpapers.in	1 Mark
C $25(\pi+2)\mathrm{cm}^2$ Q89.The sum of first n term A (5 - 2n) Q90.The ratio of lateral sum	B (6 - 2n) rface area to the total sur	TEST GROUP FEEST ALL TEST PAPERS WITH ANSWERS FREE USERS CHECK ALL SAME WEBSITES. YOU CAN DOWN RAVI TEST PAPE WHATSAPP — 8 CHECK FREE TEST PAPERS WWW.ravitest B $25(\pi-2)\mathrm{cm}^2$ D $5(\pi-2)\mathrm{cm}^2$ The common difference of the AP is C $(2\mathrm{n}$ - 5) face area of a cylinder with base difference of the AP is common difference of the AP is $(2\mathrm{n} - 5)$	ECT FULL TEST PAPER B RS.1000 ONLY UPLOAD IN YOUR WHATSAPP E PAPERS UPLOAD IN MY NLOAD AND PRACTICE ERS & NOTES 8056206308 Papers.com & www.ravitestpapers.in S: D (2n - 6) Siameter 1.6m and height 20cm is:	1 Mark 1 Mark
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	e base of a right circular cylinde us obtained to the volume of org		ht the same, then the ratio of the volume	e 1 Mark
A 1:2 Q98.The volume of the 5cm is:	B 2 : 1 e greatest sphere that can be c	C 1 : 4 ut off from a cylindrical log of	D 4 : 1 f wood of base radius 1cm and height	1 Mark
A $rac{4}{3}\pi$	B $\frac{10}{3}\pi$ nul) is the combination of:	C 5π	D $\frac{20}{3}\pi$	1 Mark



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- A A hemisphere and a cone.
- **C** A cylinder and frustum of a con.

- **B** A cylinder and a cone.
- **D** A cylinder and a sphere.

Q100The radius of the base of a cone is 5cm and its height is 12cm. Its curved surface area is:

1 Mark

- A $60\pi\mathrm{cm}^2$
- C $30\pi\mathrm{cm}^2$

- B $65\pi\mathrm{cm}^2$
- **D** None of these