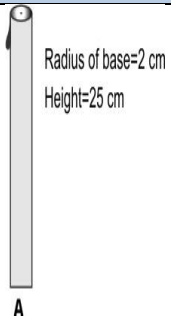
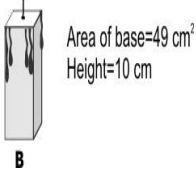
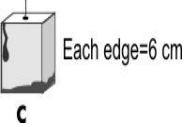
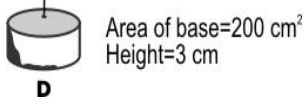
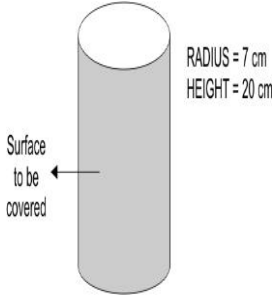
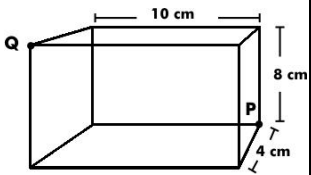
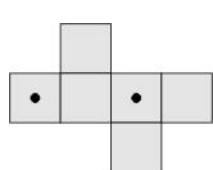




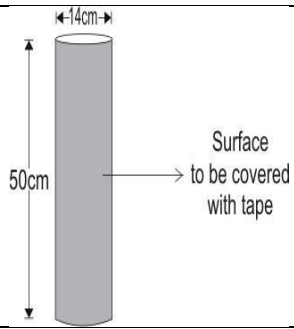
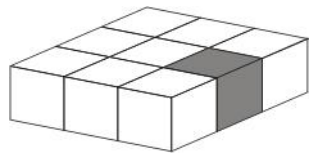


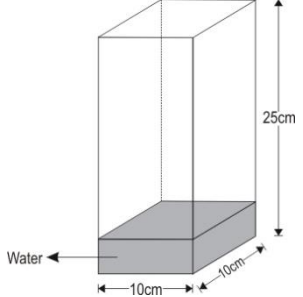
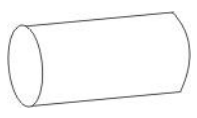
Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)				
1	2_10 Mathematics 5909	SURFACE AREAS AND VOLUMES	Sonali has about half a litre of molten wax to make a candle. Which of these candles could she have made using the entire quantity of wax? ($1 \text{ cm}^3 = 1 \text{ ml}$)		B				
						Answer Options			
						Option A	Option B	Option C	Option D
	 <p>Radius of base=2 cm Height=25 cm</p> <p style="text-align: center;">A</p>	 <p>Area of base=49 cm^2 Height=10 cm</p> <p style="text-align: center;">B</p>	 <p>Each edge=6 cm</p> <p style="text-align: center;">C</p>	 <p>Area of base=200 cm^2 Height=3 cm</p> <p style="text-align: center;">D</p>					
2	2_10 Mathematics 5915	SURFACE AREAS AND VOLUMES	Zubin wants to cover the CURVED SURFACE of an old waste paper basket with coloured paper. The dimensions of the basket are shown below. What is the total area that has to be covered with paper?	 <p>RADIUS = 7 cm HEIGHT = 20 cm</p> <p>Surface to be covered</p>	C				
						Answer Options			
						Option A	Option B	Option C	Option D
	220 cm^2	440 cm^2	880 cm^2	1760 cm^2					

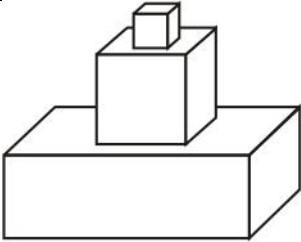
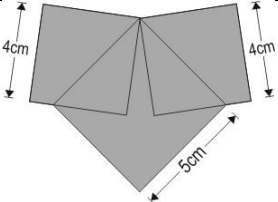
3	2_10 Mathematics 5917	SURFACE AREAS AND VOLUME S	Travelling only along the edges and covering a distance of exactly 22 cm, how many different routes can be taken to go from corner P to corner Q of this cuboid?		C	
		Answer Options				
		Option A	Option B	Option C		Option D
		10	8	6	1	

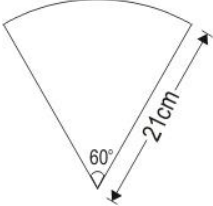
4	2_10 Mathematics 5919	SURFACE AREAS AND VOLUMES	<p>The formula for calculating the area of the walls of a rectangular room, A is given as:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> $A = 2h(l + b)$, where h is the height of the room, l its length and b its breadth </div> <p>Which of the following would be the correct formula to find the breadth of a room when the area, height and length are given?</p>	D	
		Answer Options			
		Option A	Option B		Option C
		$A - 2hl$	$\frac{A - l}{2h}$	$\frac{-2h}{A - l}$	$\frac{A}{2h} - l$

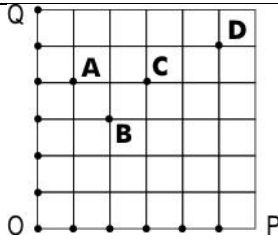
5	2_10 Mathematics 5922	SURFACE AREAS AND VOLUMES	A piece of cardboard is cut to the shape shown and 2 dots are marked on it. The cardboard is then folded along the lines to form a CUBE. Which of the cubes shown here CAN be constructed from the cardboard piece?		A	
		Answer Options				
		Option A	Option B	Option C		Option D
						
		A	B	C	D	

6	3_18 Mathematics 3417	SURFACE AREAS AND VOLUMES	What is the length of tape required to cover the entire outer CURVED surface of the pipe shown below if the width of the tape used is 2 cm? (Assume that there is no overlap of tape)		D	
		Answer Options				
		Option A	Option B	Option C		Option D
		22 cm	25 cm	7.7 m	11 m	
7	3_18 Mathematics 3399	SURFACE AREAS AND VOLUMES	The cuboid shown below consists of 9 cubes of side 1 unit each. If the shaded unit cube is REMOVED, what will be the surface area of the remaining solid?		C	
		Answer Options				
		Option A	Option B	Option C		Option D
		24 sq. units	28 sq. units	30 sq. units	32 sq. units	

8	3_18 Mathematics 3407	SURFACE AREAS AND VOLUME S	250 ml of water is poured into a container like the one shown below which already contains some water. Assuming that no water spills out, what will be the increase in the level of water in the container? (1 ml = 1 cm ³)		A	
		Answer Options				
		Option A	Option B	Option C		Option D
		2.5 cm	5 cm	10 cm	We can't say	
9	3_19 Mathematics 2788	SURFACE AREAS AND VOLUME S	A solid cylinder made of pure metal has a mass of 24 kg. What would the mass be if it were twice as thick but only half as long?		D	
		Answer Options				
		Option A	Option B	Option C		Option D
		12 kg	24 kg	36 kg	48kg	

10	3_19 Mathematics 2804	SURFACE AREAS AND VOLUMES	A cube of side 1 metre is stuck on top of another cube of side 2 metres, which in turn is stuck on top of a cuboid of dimensions (6 m x 5 m x 3 m) to form the solid shown below. The entire exposed surface of this solid (including the bottom of the cuboid) has to be painted. How many square metres is that?		B				
						Answer Options			
						Option A	Option B	Option C	Option D
			151	146	120	113			
11	3_18 Mathematics 3420	SURFACE AREAS AND VOLUMES	Two squares of sides 4 cm and one square of side 5 cm are placed as shown. The shaded area is:		C				
						Answer Options			
						Option A	Option B	Option C	Option D
			37 cm ²	41 cm ²	45 cm ²	57 cm ²			

Q. N	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)				
12	3__18 Mathematics 3401	SURFACE AREAS AND VOLUMES	The piece below is cut out from a circular sheet of radius 21 cm. What is the area of the piece?		B				
						Answer Options			
						Option A	Option B	Option C	Option D

		23.1 cm ²	231 cm ²	346.5 cm ²	441 cm ²						
13	3__18 Mathematics 3410	SURFACE AREAS AND VOLUMES	The floor of a room that is 6 m long and 4 m 20 cm wide has to be tiled entirely with square tiles OF EQUAL SIZE. What is the MINIMUM number of square tiles with which this can be done? (No tile can be broken or cut)				D				
								Answer Options			
								Option A	Option B	Option C	Option D
								30	42	60	70
14	2__10 Mathematics 5902	SURFACE AREAS AND VOLUMES	In the grid shown below, the distance between any two consecutive points marked on OP (or OQ) is taken to be the unit distance. Which point on the grid is at a distance of 5 units from O?				C				
								Answer Options			
								Option A	Option B	Option C	Option D
								A	B	C	D
15	2__10 Mathematics 5906	SURFACE AREAS AND VOLUMES	Points P, Q and R are co-planar. In which of the following cases will they NECESSARILY be collinear?				C				
								Answer Options			
								Option A	Option B	Option C	Option D
								When PQ = PR	When PQ + PR > QR	When PQ + QR = PR	When PR < PQ + QR