BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA.
FEBRUARY ASSIGNEMENT
CLASS- VIII (MATHEMATICS)
TOPICS: MENSURATION

	SECTION –A (MULTIPLE CHOICE QUESTIONS)
1.	The volume of a cube is 343 cm^3. Its total surface area is a) 196 cm^2 b) 49 cm^2 c) 294 cm^2 d) 147 cm^2
2.	How many bricks, each measuring 25 cm x 11.25 cm x 6 cm, will be needed to build a wall 8m long, 6m heigh and 22.5cm? a) 5600 b) 6000 c) 6400 d) 7200
3.	Assertion (A) –The total surface area of a cylinder of base radius r and height h is $2\pi r (r + h)$ Reasons (R) –The surface area formula is a mathematical solution to find the total area of any three-dimensional object occupied by all of its surfaces a) Both A and R are true and R is the correct explanation of A b) Both A and R are true but R is not the correct explanation of A c) A is true but R is false d) A is false but R is true
	SECTION – B(2 MARKS QUESTIONS)
4.	The area of the trapezium is 405 cm^2 . Its parallel sides are in the ratio 4 : 5 and the distance between then is 18cm. Find the length of each parallel side.
5.	The area of a rhombus is 360 cm^2. If one of its diagonal is 40 cm, find the other diagonal.
	SECTION – C (3 MARKS QUESTIONS)
6.	How many cubic meters of earth must be dug out to sink a well which is 16m deep and which has a radius of 3.5m. If the earth taken out is spread over a rectangular plot of dimensions 25m x 16m, what is the height of the platform so formed.
7.	The dimensions of a cuboid are in the ratio 2 : 3 : 4 and its total surface area is 468 m^2. Find the dimensions.
	SECTION – D (5 MARKS QUESTIONS)
8.	Find the length of the longest pole that can be put in a room of length 10m, breadth 10m and height 5m.
9.	A metal cube of volume 2933 cm^3 is melted and three smaller cubes are made out of it. If the edges of two smaller cubes are 5cm and 4cm, find the edge of the third smaller cube.
	SECTION – E (CASE STUDY)
10.	Water is one of the most commonly used substances on our Earth. Water supply in urban areas is always short against the real demand. This scenario requires an alternative source to bridge the gap between demand and supply. Rain water is the purest form of water and easily available. Neelkanth society, Pune, has also installed one cubical tank whose edge is to 200m to store rain water using roof top. a) What is the total surface area of the cubical tank? OR How much quantity of water can be stored in this cubical tank? b) What will be the cost of painting all the walls of the tank if it cost Rs. 10/m^2? c) What will be the cost of painting cubical tank at the cost of Rs. 15/m^2 leaving upper and lower base?