

## Test Algebra prep 2 First term

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*Answer the following questions :*

### 1 Choose the correct answer :

- 1 The mode of the values : 5 , 6 , 7 , 7 is .....
- (a) 1                      (b) 6                      (c) 5                      (d) 7
- 2 If  $\sqrt[3]{x} = 4$  , then  $x =$  .....
- (a) 4                      (b) 16                      (c) 64                      (d) 12
- 3 A cube with edge length 6 cm. , then its total area is .....  $\text{cm}^2$
- (a) 144                      (b) 36                      (c)  $6\sqrt{6}$                       (d) 216
- 4  $[2, 5] - \{5\} =$  .....
- (a)  $[2, 5[$                       (b)  $\emptyset$                       (c)  $]2, 5[$                       (d)  $\{2\}$
- 5 The slope of the straight line passing through (2 , 4) and (4 , 6) is .....
- (a) -1                      (b) 1                      (c) 7                      (d) zero
- 6 The greatest integer number non-positive is .....
- (a) 1                      (b) -1                      (c) zero                      (d)  $-\infty$

### 2 Complete :

- 1 The centre of a set is 10 and its upper limit is 12 , then its lower limit is .....
- 2 If  $x = \sqrt{5} + 2$  ,  $y = \sqrt{5} - 2$  , then  $(x + y)^2 =$  .....
- 3 If (a , 3 a) satisfies the relation :  $2x + y = 15$  , then a = .....
- 4 The median of the values : 17 , 14 , 19 , 4 and 10 is .....
- 5 The dimensions of a cuboid are  $\sqrt{5}$  cm. ,  $\sqrt{2}$  cm. and  $\sqrt{10}$  cm. , then its volume = .....  $\text{cm}^3$
- 6 The slope of any straight line parallel to X-axis is .....