Choose the correct answer from the given ones :

1 The irrational number between 3 and 4 is .....

(a) 3.6 (b) $\sqrt{6}$ (c) $\sqrt{15}$ (d) $\sqrt{17}$

2 The square whose side length is $\sqrt{7}$ cm. , its area = ... cm^2

(a) 28 (b) 49 (c) 7 (d) 14

3 If $x \in \mathbb{Z}$ and $x < \sqrt{11} < x + 1$, then x = ...

(a) 3 (b) 2 (c) 4 (d) 10

4 $\mathbb{R}$ = ...

(a) $\mathbb{Q} \cup \grave{\mathbb{Q}}$ (b) $\mathbb{Z}_+ \cup \mathbb{Z}_-$ (c) $\mathbb{R}_+ \cup \mathbb{R}_-$ (d) $\mathbb{N} \cup \mathbb{R}_-$

5 $\{x : x \in \mathbb{R} , x < 0\}$ = ...

(a) $\mathbb{R}_+$ (b) $\mathbb{R}_-$ (c) $\mathbb{R}^*$ (d) $\mathbb{R}$

6 If x is a negative real number , then which of the following numbers is positive ?

(a) x^2 (b) x^3 (c) $2x$ (d) $\frac{x}{2}$

7 The irrational number in the following numbers is .....

(a) $\sqrt{\frac{1}{4}}$ (b) $\sqrt[3]{8}$ (c) $\sqrt{\frac{4}{9}}$ (d) $\sqrt{2}$

8 If $x = \sqrt{2}$, $y = 2$, then which of the following does not represent a rational number ?

(a) $x^2 + y$ (b) $x + y^2$ (c) $\sqrt{x^2 y}$ (d) $\sqrt{2}\, x y$

9 The irrational number located between 2 and 3 is .....

(a) $\sqrt{10}$ (b) $\sqrt{7}$ (c) 2.5 (d) $\sqrt{3}$

10 The irrational number located between –2 and –1 is .....

(a) – 3 (b) $-1\frac{1}{2}$ (c) $-\sqrt{3}$ (d) $\sqrt{2}$