

MODEL QUESTIONS

CLASS:11

SUBJECT:MATHS

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M.SC(MATHS),PH.D,B.ED

Question1.Which of the following collections are sets?

- (a)The collection of all planets of the solar system.**
- (b)The collection of ten best batsman of the world.**
- (c) The collection of five most talented writers of India.**
- (d)The collection of all students of your class.**
- (e)The collection of all months of a year beginning
With the letter J.**

Question 2. Write each of the following Sets in the roster form:

(a) $A = \{x: x \text{ is an integer and } -2 \leq x \leq 6\}$

(b) $B = \{x: x \text{ is a letter of the word BETTER}\}$

Question 3. Express each of the following Sets as an interval.

(a) $A = \{x: x \in R, -4 < x < 2\}$. (b) $B = \{x: x \in R, 0 \leq x \leq 5\}$.

(c) $C = \{x: x \in R, -4 < x \leq 3\}$. (d) $D = \{x: x \in R, 0 \leq x \leq 2\}$

Question 4. Write each of the following intervals in the Set-builder form:

(a) $[-2, 3]$ (b) $(2, 5)$ (c) $[-2, 0)$ (d) $(0, 4]$

Question 5. If $A = \{a, b, c\}$, then find $P(A)$ and $n[P(A)]$.