

TOP SCORER POCKET MARKS PACKAGE**MID TERM PRACTICE QUESTION PAPER - 01****AS PER NEW PATTERN 2023-2024****BASED ON FIRST PUC MODEL QUESTION PAPER****SUBJECT : MATHEMATICS (35)****Time: 3 Hrs 15 Min****[TOTAL QUESTIONS : 52]****Max Marks: 80****Instructions:** (1) The question paper has five Parts namely A, B, C, D and E. Answer all the parts.

(2) Part-A has 15 multiple choice questions, 5 fill in the blanks questions

PART-A**Answer all the multiple choice questions :****(15 × 1 = 15)**

1. If $A = \{x : x \in R \text{ and } 0 \leq x < 7\}$ then $x \in$
a) $\{0,7\}$ b) $[0,7)$
c) $[0,7]$ d) $(0,7]$
2. If $A = \{x : x \text{ is a natural number less than } 6\}$, then the roster form A is.
a) $\{0,1,2,3,4,5\}$ b) $\{1,2,3,4,5,6\}$
c) $\{0,1,2,3,4,5,6\}$ d) $\{1,2,3,4,5\}$
3. If a set A has three elements and set $B = \{1,2,3\}$ then the number of elements of $A \times B$
a) 6 b) 27
c) 9 d) 3
4. If $\left(\frac{x+3}{2}, 5\right) = (6,5)$ then the value of x is
a) 9 b) 15
c) 5 d) 11
5. If $\frac{2\pi}{3}$ is in radians then the degree measure is
a) 120° b) 60°
c) 180° d) 240°
6. Difference between two acute angles of a right angled triangle is $\frac{2\pi}{10}$ radians. then angles are
a) 72° and 18° b) 75° and 15°
c) 70° and 20° d) 74° and 16°
7. The conjugate of $i + 1$ is
a) $i - 1$ b) $-i - 1$
c) $-i + 1$ d) $i + 1$
8. $a + ib$ form of $(-5i)\left(-\frac{3}{5}i\right)$ is
a) $0 + 3i$ b) $3 + 0i$
c) $-3 + 0i$ d) $0 + 0i$

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