

Ba/Bs/MAT/M3 (AK)

2 0 2 5

(FYUGP)

(3rd Semester)

MATHEMATICS

(MINOR)

Paper Code : MAT/M3

(Group Theory)

(PART : A—OBJECTIVE)

(Marks : 25)

KEY ANSWERS FOR OBJECTIVES

I. Put a Tick (✓) mark against the correct answer in the brackets provided : 1×10=10

1. (c) 0

2. (a) 0

3. (b) not necessarily a subgroup

4. (a) is always cyclic

5. (b) {1, -1}

(2)

6. (d) $5!$

7. (c) $a^n e$

8. (a) $\begin{matrix} 1 & 2 & 3 & 4 \\ 3 & 1 & 2 & 4 \end{matrix}$

9. (c) $|G| |G|$

10. (d) 4

II. Fill in the blanks :

$1 \times 5 = 5$

1. 3

2. isomorphism

3. no proper

4. 6

5. $\frac{O(G)}{O(H)}$
