

(For the candidates admitted from 2021-2022 onwards)

M.Sc. DEGREE EXAMINATION, JUNE 2023

Second Semester

Mathematics

ABSTRACT ALGEBRA

Time : Three hours

Maximum : 75 marks

PART A -- (15 × 1 = 15 marks)

Answer ALL questions

1. The Normalizer  $N(a)$  of  $a$  is the set of all  $x \in G$  such that \_\_\_\_\_ for all  $x \in G$ .

(a)  $ax = x^{-1}a$  (b)  $ax = ax$

(c)  $ax = ax$  (d)  $ax = x^{-1}a$

2. If  $p$  is a  $p$ -Sylow subgroup of  $G$  then  $d(pq) =$  \_\_\_\_\_

(a)  $\frac{d(p)^2}{d(p \cap qp^{-1})}$  (b)  $\frac{d(p)}{d(p \cap qp^{-1})}$

(c)  $\frac{d(p)^2}{d(p \cap qp)}$  (d)  $\frac{d(p)^2}{d(p \cap qp^{-1})}$

3. Let  $G$  be a group of order 15. Then the number of Sylow subgroup of  $G$  of order 3 is \_\_\_\_\_

(a) 0 (b) 1

(c) 2 (d) 5

4. If  $G$  is an abelian group and  $x$  is any integer then  $G(x) =$  \_\_\_\_\_

(a)  $\{x \in G/x^2 = x\}$  (b)  $\{x \in G/x^2 = xe\}$

(c)  $\{x \in G/x = e\}$  (d)  $\{x \in G/x \neq e\}$

5. If  $G$  and  $G'$  are isomorphic abelian groups then  $G(x)$  and  $G'(x)$  are \_\_\_\_\_ for every integer  $x$ .

(a) Isomorphic (b) Cyclic

(c) Homomorphic (d) Abelian

6. Any finite abelian group is a direct product of its \_\_\_\_\_ subgroup

(a) Cyclic (b) Sylow

(c) Normal (d) Invariant

7. What is the value of leading coefficient of a monic polynomial?

(a) 0 (b) 1

(c) 4 (d) 16

# Periyar University Algebra Question Paper

**Patrick Doyle**



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