



FEDERAL PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR
RECRUITMENT TO POSTS IN BS-17
UNDER THE FEDERAL GOVERNMENT, 2014

Roll Number

PURE MATHEMATICS, PAPER-I

TIME ALLOWED: THREE HOURS	MAXIMUM MARKS: 100
NOTE:(i) Attempt FIVE questions in all by selecting THREE questions from SECTION-A and TWO questions from SECTION-B. ALL questions carry EQUAL marks. (ii) Candidate must write Q.No. in the Answer Book in accordance with Q.No. in the Q.Paper. (iii) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed. (iv) Extra attempt of any question or any part of the attempted question will not be considered. (v) Use of Calculator is allowed.	

SECTION-A

- Q. No. 1.** (a) If G is a group in which $(a \cdot b)^i = a^i \cdot b^i$ for three consecutive integers i for all $a, b \in G$, show that G is abelian. (10)
- (b) The center Z of a group G is defined by $Z = \{x \in G \mid xz = zx \text{ all } x \in G\}$. Prove that Z is a subgroup of G . (10)
- Q. No. 2.** (a) If $f: G \rightarrow G'$ be a homomorphism. Prove that $\text{Ker } f$ is a normal subgroup of G . (10)
- (b) Prove that any group of order 15 is cyclic. (10)
- Q. No. 3.** (a) If in a ring R with unity, $(xy)^2 = x^2 y^2$ for all $x, y \in R$, then show that R is commutative. (10)
- (b) Prove that the set $Z_7 = \{0, 1, 2, 3, 4, 5, 6\}$ forms a commutative ring with unit element under addition and multiplication module 7. (10)
- Q. No. 4.** (a) Prove that a non empty subset W of a vector space $V(F)$ is a subspace of V if and only if $a x + b y \in W$ for $a, b \in F$, $x, y \in W$. (10)
- (b) Show that the vectors $v_1 = (1, -1, -4, 0)$, $v_2 = (1, 1, 2, 4)$, $v_3 = (2, -1, -5, 2)$, $v_4 = (2, 1, 1, 6)$ are linearly dependent in $\mathbb{R}^4$ ($\mathbb{R}$). (10)
- Q. No. 5.** (a) A company produces three products, each of which must be processed through three different departments. Given table summarizes the hours required per unit of each product in each department. In addition, the weekly capacities are stated for each department in terms of work-hours available. What is desired is to determine whether there are any combinations of the three products which would exhaust the weekly capacities of the three departments. (10)

Department	Product			Hours Available per Week
	1	2	3	
A	2	3.5	3	1,200
B	3	2.5	2	1,150
C	4	3	2	1,400

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Léo Pomar



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