

## FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION FOR

RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2015

## Roll Number

## **BOTANY, PAPER-II**

TIME ALLOWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20
PART-I(MCQS): MAXIMUM 30 MINUTES	PART-II	MAXIMUM MARKS = 80

NOTE: (i) Part-II is to be attempted on the separate Answer Book.

- (ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.
- (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.
- (iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.
- (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
- (vi) Extra attempt of any question or any part of the attempted question will not be considered.

## **PART-II**

Q. No. 2.	2. What is salinity? How it affects plants? How can we deal with this problem?	
Q. No. 3.	Write a comprehensive note on speciation process with examples.	
Q. No. 4.	No. 4. What are transgenic plants? How are they produced? Give some examples transgenic crops.	
Q. No. 5.	Describe translation process during gene expression in detail with diagrams.	
Q. No. 6.	Write an essay on the main plant hormones and their role in plant growth and development.	
Q. No. 7.	Describe in detail the structure and function of the biological membranes in a plant cell.	
Q. No. 8.	Write short notes on: (10 each)	(20)
	(a) Transpiration (b) Vernalization	

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