



**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2016  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT**

**Roll Number**

**BOTANY**

|  |                      |                           |
|--|----------------------|---------------------------|
| <b>TIME ALLOWED: THREE HOURS</b>   | <b>PART-I (MCQS)</b> | <b>MAXIMUM MARKS = 20</b> |
| <b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>  | <b>PART-II</b>       | <b>MAXIMUM MARKS = 80</b> |
| <p><b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b></p> <p><b>(ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.</b></p> <p><b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b></p> <p><b>(iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b></p> <p><b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b></p> <p><b>(vi) Extra attempt of any question or any part of the attempted question will not be considered.</b></p> |                      |                           |

**PART-II**

- Q. No. 2.** Describe the life cycle of Ulothrix with the help of diagrams. **(20)**
- Q. No. 3.** What is CAMBIUM? Where does it occur? Describe its histological structure and its function. **(20)**
- Q. No. 4.** Describe briefly habitat, structure, and reproduction of MARCHANTIA. **(20)**
- Q. No. 5.** Define palynology? Discuss the significance of palynology in modern Taxonomy. **(20)**
- Q. No. 6.** Describe the diagnostic Characters of family Poaceae and discuss its economic importance. **(20)**
- Q. No. 7.** Give an account of structure mode of nutrition and method of reproduction in RHIZOPUS. **(20)**
- Q. No. 8.** Write short notes on any FOUR of the following: **(5 each) (20)**
- (a) Species Concept
  - (b) Chemo Taxonomy
  - (c) Significance of Numerical Taxonomy
  - (d) Taxonomic key
  - (e) Chromosomal aberrations

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