FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2012

Roll Number

BOTANY,PAPER-I

TIME ALLOWED:	**(PART-I MCQs)**	**30 MINUTES**	**MAXIMUM MARKS: 20**
THREE HOURS	**(PART-II)**	**2 HOURS & 30 MINUTES**	**MAXIMUM MARKS: 80**

NOTE: **(i)** Candidate must write **Q.No.** in the **Answer Book** in accordance with **Q.No.** in the **Q.Paper**.
(ii) Attempt **ONLY FOUR** questions from **PART-II**. All questions carry **EQUAL** marks.
(iii) Extra attempt of any question or any part of the attempted question will not be considered.

PART-II

Q.2. What are lichens? Give detail of their importance. **(20)**

Q.3. Differentiate between simple and complex tissue. **(20)**

Q.4. Give the classification and economic importance of main groups of Algae. **(20)**

Q.5. What is Numerical Taxonomy? Explain cladistic analysis. **(20)**

Q.6. What is fertilization? Explain different mode of seed dispersal in angiosperms. **(20)**

Q.7. Who proposed binomial nomenclature, give its detail. Why Latin is used in nomenclature? **(20)**

Q.8. Discuss the relation of Pteridophytes and gymnosperms. Highlight the advance characters of Pteridophytes with examples. **(20)**

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Roll Number

BOTANY, PAPER-II

TIME ALLOWED:	**(PART-I MCQs)**	**30 MINUTES**	**MAXIMUM MARKS: 20**
THREE HOURS	**(PART-II)**	**2 HOURS & 30 MINUTES**	**MAXIMUM MARKS: 80**

NOTE: **(i)** Candidate must write **Q. No.** in the **Answer Book** in accordance with **Q. No.** in the **Q. Paper.**
(ii) Attempt **ONLY FOUR** questions. **ALL** questions carry **EQUAL** marks.
(iii) Extra attempt of any question or any part of the attempted question will not be considered.

PART-II

Q. 2. Explain Evolution with reference to Darwinism. **(20)**

Q. 3. Give detailed account of Chromosomal aberrations. Support your answer with diagrams. **(20)**

Q. 4. What is salanity and water logging? Discuss with reference to its causes in Pakistan. **(20)**

Q. 5. Which cell division occurs in reproductive cells? How diploid cell produce four heploid daughter cells? Explain. **(20)**

Q. 6. Describe the following: **(4x5=20)**
(a) Pyramids (b) Food chain (c) Ecological energetics
(d) Concepts of ecosystem

Q. 7. Write short notes on any **TWO** of the following:- **(2x10=20)**
1. Genetic code
2. Poly Ploidy
3. Mutation

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