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 HO | URS | (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 a | ttempt of any question | n or any part of the attempted que | estion 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 MO | (CQs) 30 MI | NUTES | | MAXIMUM MARKS: 20 | | |
|---|---|------------------|--------------------|----------------------------|------------------|-------------------|---------------|--|
| THREE HOURS | | (PART-II) | 2 HOU | 2 HOURS & 30 MINUTES MAXIM | | | MUM 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. | | | | | | | |
| | | | | | | | | |
| | | | PAR' | <u>Γ-ΙΙ</u> | | | | |
| | | | . 5 | | | | (00) | |
| Q. 2. | Explain Evolu | ition with refer | ence to Darwini | sm. | | | (20) | |
| 0.2 | C: 1-4-:1- 1 | | | C | | | (20) | |
| Q. 3. | Give detailed | account of Chi | omosomai aberi | ations. Supp | ort your answ | er with diagrams. | (20) | |
| 0.4 | What is salani | try and ryatanle | acina? Disayas | vvith nafanan | aa ta ita aaysaa | in Dolzistan | (20) | |
| Q. 4. | what is salam | iy and water ic | ogging? Discuss | with referen | ce to its causes | s III Pakistaii. | (20) | |
| Q. 5. | Which cell di | vision occurs i | n reproductive o | ells? How d | linloid cell pro | oduce four heploi | d | |
| Q. 3. | daughter cells | | iii reproductive c | clis: How c | iipioid ceii pre | duce four hepion | (20) | |
| | | r | | | | | (==) | |
| Q. 6. | Describe the f | ollowing: | | | | | (4x5=20) | |
| | (a) Pyramids | • | Food chain | (c) | Ecological | energetics | , | |
| | (d) Concepts | of ecosystem | | | | | | |
| | | | | _ | | | | |
| Q. 7. | | • | O of the follow | ing:- | | | (2x10=20) | |
| | 1. Genetic c | | | | | | | |
| | 2. Poly Ploi3. Mutation | • | | | | | | |
| | 5. Mutation | | | | | | | |
