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# COMPETITIVE EXAMINATION FOR <br> RECRUITMENT TO POSTS IN BS-17 <br> UNDER THE FEDERAL GOVERNMENT, 2011 

Roll Number

BOTANY, PAPER-I

$\square$

| TIME ALLOWED: | (PART-I MCQs) | 30 MINUTES | MAXIMUM MARKS: 20 |
| :--- | :--- | :--- | :--- |
| THREE HOURS | (PART-II) | 2 HOURS \& 30 MINUTES | MAXIMUM MARKS: 80 |
| NOTE: (i) | First attempt PART-I (MCQs) on separate Answer Sheet which shall be taken back after 30 |  |  |
| (ii) | minutes. <br> Overwriting/cutting of the options/answers will not be given credit. |  |  |

## (PART-I MCQs) (COMPULSORY)

Q.1. Select the best option/answer and fill in the appropriate box on the Answer Sheet.
( $1 \times 20=20$ )
(i) Tiny plants with silicon cells are:
(a) Diatoms
(b) Zooplanktons
(c) Fungi
(d) None of these
(ii) Withania somnifera belongs to the family:
(a) Solanaceae
(b) Brassicaceae
(c) Poaceae
(d) None of these
(iii) The $1^{\text {st }}$ root of the seed plant develops from the radical is called:
(a) Tap root
(b) Aerial root
(c) Adventitious root
(d) None of these
(iv) Mycorrhiza is the symbiotic association between:
(a) Algae and Fungi
(b) Angiosperms and Fungi
(c) Lichens and Fungi
(d) None of these
(v) New Ulva plant after undergoing meiosis produces $\qquad$ Zoospores:
(a) Monoflagellated
(b) Biflagellated
(c) 4-flagellated
(d) None of these
(vi) Alternation of generation in Moss is:
(a) Isomorphic
(b) Heteromorphic
(c) Absent
(d) None of these
(vii) Most primitive family is:
(a) Magnoliaceae
(b) Poaceae
(c) Malvaceae
(d) None of these
(viii) Laminaria is the example of:
(a) Red Algae
(b) Brown Algae
(c) Green Algae
(d) None of these
(ix) The chief component of the cell wall of fungi is the:
(a) Pectin
(b) Chitin
(c) Lignin
(d) None of these
(x) Formation of fruit without fertilization:
(a) Apomixis
(b) Polyembryony
(c) Parthenocarpy
(d) None of these
(xi) National flower of Pakistan is:
(a) Jasminum
(b) Cestrum nocturnum
(c) Pisum sativum
(d) None of these
(xii) Zygomycetes have their common name as:
(a) Imperfect Fungi
(b) Conjugating Fungi
(c) Sac Fungi
(d) None of these
(xiii) Filaments of Algae are composed either of distinct cells:
(a) Gametocytes
(b) Coenocytes
(c) Heterocysts
(d) None of these
(xiv) The bryophytes are also called:
(a) Sporogonium
(b) Amphibians
(c) Arthrophytes
(d) None of these

## BOTANY, PAPER-I

(xv) The first plant which developed true leaves and roots are:
(a) Pteropsids
(b) Lycopsids
(c) Psilopsids
(d) None of these
(xvi) An ovule is:
(a) Fertilized seed
(b) Integumented Indehiscent megasporangium
(c) Dehiscent megasporangium
(d) None of these
(xvii) An angiosperms the female gametophyters contain:
(a) 1-several cells
(b) 7 cells only
(c) 3 cells
(d) None of these
(xviii, Sporophyte of Bryophytes is also called as:
(a) Sporangium
(b) Sporogonium
(c) Prothallus
(d) None of these
(xix) One of the examples of crustose lichen is:
(a) Basidia
(b) Dermatrocarpus
(c) All of these
(d) None of these
( xx ) The scientific name of Bringal is:
(a) Solanum tuberosum
(b) Solanum melongena
(c) Nicotiana tabaccum
(d) None of these

## PART-II

NOTE:(i) PART-II is to be attempted on separate Answer Book.
(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.
Q.2. Briefly describe the life cycle of Bryophytes.
Q.3. Write detailed notes on the different stages of mitosis. Draw diagrams.
Q.4. Write down the salient features of family Rosaceae and its economic importance.
Q.5. Give detailed note on the life cycle of Angiosperm up to the development of seed.
Q.6. Define tissue. What are meristematic tissues and also classify them on different basis?
Q.7. What are lichens? How lichens are beneficial for the universe?
Q.8. Write the characteristic features of Gymnosperms. How they differ from Angiosperms and Pteridophytes.

