

**2018**

**M.Sc. 2nd Semester Examination**

**BOTANY**

**PAPER—BOT-204**

**Subject Code—23**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Use separate Answer-scripts for Unit-I & Unit-II**

**Unit-I**

*(General concept of plant kingdom)*

[ 20 Marks ]

**1. Answer any two questions :**

**2×2**

- (a) Which new kingdom was introduced in Whittaker's system of classification ?

*(Turn Over)*

- (b) What are amphibian plants ?
- (c) Name a gymnosperm with angiospermic characters.
- (d) Write two parasitic and two saprophytic angiosperms.

2. Write short notes on any *two* of the following : 4×2

- (a) Heterospory and seed habit in Pteridophyte ;
- (b) Write down economic importance of gymnosperm ;
- (c) Early vascular plant ;
- (d) Mention four unique characters of plant cell.

3. Answer any *one* question of the following : 8×1

- (a) Discuss Whittaker's five kingdom concept. Give example of each group.
- (b) Mention different parts of a flower. Show their relative position with diagram. 3+2+3

**Unit-II**

(Economic uses of plants)

[ 20 Marks ]

4. Answer any two questions : 2×2
- (a) Mention scientific name of mat grass and sabai grass.
  - (b) What are active principles of *Strychnos nux-vomica* ?
  - (c) Write the main plant component of Indian coal. Mention its age.
  - (d) Which parts of turmeric and ginger produce condiments.
5. Write short notes on any two of the following : 4×2
- (a) Uses of cereals as staple food ;
  - (b) Market value of spices and condiments ;
  - (c) Beverage yielding plants ;
  - (d) Pulses as poor men's meat.

6. Answer any *one* question :

8×1

- (a) Give brief account of morphological characters of *Andrographis Panicalata*. Mention its two active principle. Enlist four medicinal uses of this plant. 3+2+3
- (b) Give example of two edible oil and two essential oil yielding plants. Give morphological characters of *Abrus*. Mention its chemical components. 3+3+2
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