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PG/2nd Sem/BOT/19

2019

M.Sc.

2nd Semester Examination

**BOTANY**

Paper - BOT 204

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.*

Use separate script for separate units.

**204.1**

**(General Concept of Plant Kingdom)**

**[20 Marks]**

1. Answer any *two* questions from the following :

2×2=4

(a) What are streptophytic algae ?

*[ Turn Over ]*

- (b) What are different chlorophyll containing cells found in plant leaf ?
- (c) Name one each of an economically important bryophyte and gymnosperm.
- (d) What are different domains as proposed by Woese ?

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

4×2=8

- (a) Four characteristics of red algae;
- (b) Role of bacteria in increasing soil fertility;
- (c) Early Vascular plant; and
- (d) Whittaker's five kingdom concept.

3. Answer any *one* of the following :

8×1=8

- (a) Draw and describe the different parts of a bacteriophage. 3+5
- (b) Characterize chlorophyta. Mention its prospective role in evolution. 6+2

**(Economic Uses of Plants)**

**[20 Marks]**

4. Answer any *two* questions from the following :

2×2=4

- (a) Write the botanical name of one edible oil yielding plant and one fibre yielding plant.
- (b) Mention the uses of sugarcane and vetiver grass (two from each).
- (c) Write different types of coal according to their carbon content.
- (d) What is cork ? Mention its source.

5. Answer any *two* questions of the following : 4×2=8

- (a) What is essential oil ? Name two essential oil yielding plants and mention their respective uses of oils. 1+2+1
- (b) Write a short note on dye-yielding plants. 4

[ Turn Over ]

(c) What is amber ? Mention the uses of amber.

2+2

(d) Write the medicinal importance of *Aloe vera*.

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6. Answer any *one* of the following :

8×1=8

(a) What are ethnobotanical plants ? Write the scientific names of 'Vasak' and 'Tulsi'. Name two active principles of these two plants (one from each) and mention their respective uses.

2+2+2+2

(b) Write the botanical names of two beverage yielding plants with their respective families. Mention the centre of origin of these plants. Why beverages are used as stress reliever ? 3+2+3

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