tions very shortly:

### 3 (Sem-3/CBCS) BOT HC 1

Answer the follo

#### 2024

#### BOTANY

Wishands (Honours Core) Jan W

Paper: BOT-HC-3016

## (Morphology and Anatomy of Angiosperms)

earth bas Full Marks: 60 a sed W 15

Time: Three hours

# The figures in the margin indicate full marks for the questions.

- 1. Answer the following: 1×7=7

  (a) What is gynostemium?
  - (b) What is spikelet?

the special types of

- (c) The process of deposition of materials in the primary cell wall is called \_\_\_\_\_.

  (Fill in the blank)
- (d) Calcium carbonate deposits in plants are known as \_\_\_\_\_.

  (Fill in the blank)
  - (e) Who put forward the apical cell theory?

(f) What are bulliform cells?

Went are generistems? - Classify

- (g) What are tyloses?
- 2. Answer the following questions very shortly: 2×4=8
  - (a) What do you mean by secondary medullary rays?
  - (b) Differentiate between rhytidome and lenticels.
  - (c) What are ring porous and diffuse porous wood?
  - (d) What do you mean by Kranz anatomy?
- 3. Answer any three of the following questions: 5×3=15
  - (a) Mention the morphological adaptations met in xerophytes.
  - (b) What are growth rings and how are they formed?
  - (c) What are ergastic substances? Mention its basic types.
  - (d) Explain Korper-Kappe theory of root meristem.
  - (e) What are the special types of inflorescences? Give one example of each special type of inflorescence.

- 4. Answer any three of the following questions: 10×3=30
  - (a) What are meristems? Classify meristems according to their position in the plant body. Describe the structure and function of each kind.
  - (b) Discuss about the scope of plant anatomy in pharmacognosy.
  - (c) What is periderm? Mention different structures of periderm. Describe the development of periderm in plants with support of diagrams.
  - (d) Discuss the non-living inclusions produced as a result of metabolic activity of plant cells.
  - (e) Define inflorescence. Discuss about various types of racemose inflorescences found in angiosperms.
  - (f) Discuss the anatomy of monocot stem and how it differs from that of a dicot stem.

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What are the special types of

each special type of inflorescence."