

## Undergraduate Programme – Botany

### Model Question Paper

Questions: 40

Time : 40 Minutes

Max. Marks 40 x 1 : 40

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### SAMPLE QUESTIONS

- 1) Thallophyta includes
  - A) Fungi and bacteria only
  - B) Monera only
  - C) Algae, fungi and Lichens only
  - D) Algae and fungi only
  - E) Algae, fungi, bacteria and Lichens
  
- 2) Study of fungi called
  - A) Phycology
  - B) Mycology
  - C) Dermatology
  - D) Phytology
  - E) Phenology
  
- 3) Plant that produces both spores and embryo but lack vascular tissue are:
  - A) Bryophytes
  - B) Pteridophytes
  - C) Gymmsperms
  - D) Phaeophyte
  - E) Angiosperms
  
- 4) Root branches emanate from
  - A) Epidermis
  - B) Endodermis
  - C) Pericycle
  - D) Pith
  - E) Xylem parenchyma
  
- 5) Rhizomes are
  - A) Underground stems with buds
  - B) Stems running above and along the ground
  - C) Roots storing food materials
  - D) Woody underground stems
  - E) Shoots going into soil store food materials
  
- 6) In Divot stem Xylem is
  - A) Polyarch
  - B) Monarch
  - C) Exarch
  - D) Endarch
  - E) Mesarch

- 7) Casparian bands are found in
- A) Endodermis
  - B) Pericycle
  - C) Cork cambium
  - D) Xylem ray parenchyma
  - E) Pith parenchyma
- 8) In monocotyledonous plants, roots have
- A) Endarch xylem
  - B) Diarch radial xylem
  - C) Polyarch, exarch condition
  - D) Conjoint collateral bundles
  - E) Dispersed xylem elements
- 9) Male gametophyte of angiosperm is
- A) Microsporangium
  - B) Nucellus
  - C) Microspore
  - D) Megaspore
  - E) Synergids
- 10) Endosperm is formed from
- A) Antipodals
  - B) Synergids
  - C) Oosphere
  - D) Entire egg apparatus
  - E) Secondary nucleus
- 11) How many pollen mother cells are required to form 1000 pollen grains?
- A) 200      B) 100      C) 250      D) 50      E) 500
- 12) Variations occurring during tissue culture of some plants are known as:
- A) Clonal variation
  - B) Somaclonal variation
  - C) Somatic variation
  - D) Extra chromosomal variation
  - E) Non-somatic variations
- 13) A typical embryo sac possesses
- A) Egg and synergids
  - B) Eggs, synergids and secondary cells
  - C) Egg and secondary cells
  - D) Eggs, synergids, polar nuclei and antipodals
  - E) Eggs and antipodals

14) Quantasomes occur in

- A) Chloroplasts
- B) Mitochondria
- C) Lysosomes
- D) Nucleus
- E) Golgi apparatus

15) Dark reaction of photosynthesis is

- A) Hill's reaction
- B) Photophosphorylation
- C) Non-cyclic photophosphorylation
- D) Calvin cycle
- E) Kreb's cycle

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