

SEM	SET	PAPER CODE	TITLE OF THE PAPER
II	2014	14UBO230205	MORPHOGENESIS, ANATOMY AND EMBRYOLOGY

**SECTION - A****Answer all the questions:****30 × 1 = 30****Choose the correct answer:**

- Xylem and phloem tissues are known as
  - Extra xylem fibres
  - Aerenchymatous tissues
  - Chlorenchymatous tissues
  - vascular tissues
- Bast fibres are also called
  - intraxylary fibres
  - wood fibres
  - mucilaginous fibres
  - extraxylary fibres
- The tissues composed of immature cells are known as
  - Meristematic
  - Permanent
  - simple
  - complex
- Phloem is composed of
  - tissue elements
  - companion cells
  - parenchyma and fibers
  - all of these
- “De differentiation” is a phenomenon of tissues in which
  - some permanent cells may get back the meristematic nature
  - The cells lose the power of cell deviation
  - Safe maturing is attained
  - all of these

6. Totipotency was first observed by
  - a) Steward
  - b) Giwaha and maheswari
  - c) strabnrger
  - d) Nawaschin
7. Casparian bands are found in
  - a) epidermis
  - b) endodermis
  - c) hypodermis
  - d) cortex
8. In closed vascular bundles, the cambium is
  - a) present
  - b) absent
  - c) inactive
  - d) none of these
9. Heart wood is also known as
  - a) Alburnum
  - b) Sapwood
  - c) Duramen
  - d) All of these
10. Bulliform cells are found in the leaves of
  - a) sunflower
  - b) potato
  - c) wheat
  - d) castor
11. If the vascular bundles occurs in cortex, the type of bundle is referred to as
  - a) medullary
  - b) radial
  - c) collateral
  - d) cortical
12. In root, xylem is
  - a) Exarch
  - b) Endarch
  - c) Mesarch
  - d) Cortical
13. Which is the most important property in determining the value of wood for structural purposes
  - a) strength
  - b) weight
  - c) texture
  - d) none of the above
14. Which one of the following is called red sandal wood?
  - a) *Dalbergila latifolia*
  - b) *Pterocarpus marsupium*
  - c) *Dalbergia sisoo*
  - d) *Pterocarpus santalinus*

15. The heartwood usually takes good polish and is used for  
a) cabinet work                      b) furniture  
c) wood working industries      d) all the above
16. Cricket bats are made of  
a) *Salix* spp.                      b) *Populus* spp.  
c) both a & b                      d) none of the above
17. Rose wood belongs to which family  
a) Rubiaceae                      b) Meliaceae  
c) Mimosaceae                      d) Papilioniceae
18. Sandel wood oil is extracted from the woods belong to  
a) *Santalum spicatum*              b) *Santalum paniculatum*  
c) *Santalum album*              d) All of the above
19. The innermost layer of anther is tapetum whose function  
a) Dehiscence                      b) Mechanical  
c) Protection                      d) Nutritional
20. Ubish bodies are associated with the development of  
a) endosperm                      b) embryo  
c) pollen grains                      d) embrosac
21. Male gametophytes in angiosperms is represented by  
a) microsporangium              b) microspore or pollen grain  
c) tetrad                      d) nucleus
22. Sometimes integument forms a nutritive layer called  
a) amphithicium                      b) epistase  
c) endothecium                      d) endothelium
23. Female gametophyte in angiosperm is also known as  
a) ovule                      b) megaspore mother cell  
c) nucleus                      d) embryo sac

24. Megosporic eight nucleate embryosac is referred as  
a) Peperomia type                      b) allium type  
c) polygamum type                      d) oenothera type
25. In mesogamy, the entrance of pollen tube to ovule is through  
a) integument                              b) chalaza  
c) microphyle                              d) all of these
26. The development of monocot and dicot embryo is  
a) similar upto quadrant type    b) similar upto octant type  
c) similar upto globular type    d) basically dissimilar
27. When an ovary develops into a fruit without fertilization is called  
a) syngensis                              b) apospory  
c) apogamus                              d) parthenocarp
28. Polyembryony commonly occur in  
a) citrus                                      b) turmeric  
c) potato                                      d) tomato
29. The function of endosperm is to  
a) protect growing embryo  
b) supply nutrition to growing embryo  
c) Both a & b  
d) store hormone for growth of adult plant
30. The term 'apomixis' was coined by  
a) Winkler                                  b) White  
c) Reese                                      d) Lysenko

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