

Shivaji University , Kolhapur
B.Sc. (Part- II) (Semester –IV) Examination, October-2020
BOTANY (PAPER-VII) Subject. Code: 63704
(Pteridophyte, Gymnosperm Angiosperm & Anatomy)

Signature of Student

Signature of Jr. Supervisor

Seat No.-

PRN:

Day and Date: October, 2020**Total Marks: 50****Time:**

- Instructions:**
- A. Attempt any 25 questions**
 - B. Each question carries 2 marks.**
 - C. First 25 solved questions will be considered for the evaluation.**
 - D. Write the correct alternative answer in the box**

- 1) Radial vascular bundles are present in
- (a) sunflower stem (b)maize stem
- (c) jowar stem (d) maize root
- (2) Hypodermis in maize stem is made up of
- (a) parenchyma (b)collenchyma
- (c)sclerenchyma (d)chlorenchyma
- (3) When cambium is absent vascular bundle it is called.....
- (a) bicollateral (b)closed
- (c)open as well as closed (d)only open
- (4) Tetrarch vascular bundles are present in
- (a) sunflower roots (b) sunflower stem
- (c) maize steam (d) maize root
- (5) Starch sheath is present in cortex of stem .
- (a)sunflower (b)maize
- (c)jowar (d) wheat
- (6) Hard Bast is made up of
- (a) parenchyma (b)collenchymas
- (c) xylem (d) sclerenchyma

- (7) Adaptive abnormal secondary growth is found in stem .
- (a) *Bignonia* (b) *Dracaena*
(c) *Yucca* (d) *Aloe*
- (8) Non-adaptive abnormal secondary growth is found in Stem.
- (a) *Dracaena* (b) *Bignonia*
(c) *Serjania* (d) *Sunflower*
- (9) are the wonder of Indian Botanic Garden (Culcutta) to visitors.
- (a) Gaint water Lilies (b) bamboos
(c) Roses (d) Phlox
- (10) Bentham and Hooker published
- (a) Genera plantarum (b) Garcia diorta
(c) Indian meteria medica (d) Indian herbs
- (11) Etaerio of berries is present in
- (a) *Chinorose* (b) *Datura*
(c) *Annona* (d) *Ocimum*
- (12) In 1565 , a book named “Garcia D’orta on published and translated in latin .
- (a) Indian Medical plants (b) Indian ornamental plants
(c) Indian herbaceoeous (d) Indian trees
- (13) pistil is present in *Michelia* .
- (a) syncarpous (b) apocarpous
(c) tricarpellary (d) bicarpellary
- (14) Bilabiate corolla is present in
- (a) *Curcubita* (b) *Saliva*
(c) *Daliha* (d) *Mirabilis*
- (15) Imbaricate aestivation is found in
- (a) *China rose* (b) *Saliva*
(c) *Caesalpinia* (d) *Ciltoria*
- (16) The fusion of stamens with petals is called condition .
- (a) epiphyllous (b) gynostegium
(c) epipetalous (d) episepalous

- (17) Xylem in gymnosperm lacks
- (a) tracheids (b) xylem parenchyma
(c) xylem fibers (d) vessels
- 18) The ovuliferous scale of *Pinus* is a part of _____
- a) Megasporophyll b) Microsporophyll
c) Ovule d) Dwarf shoot
- 19) The mesophyll tissue in *Pinus* is called _____
- a) Armed parenchyma b) Chlorenchyma
c) Transfusion tissue d) Spongy parenchyma
- 20) The pollination in *Pinus* take place through _____
- a) insect b) water
c) birds d) wind
- 21) *Pinus* oule is _____
- a) anatropous b) orthotropous
c) hemi anatropous d) Campylotropous
- 22) *Pinus* belongs to _____
- a) Psilopsida b) Sphenopsida
c) Coniferopsida d) Gnetopsida
- 23) In *Pinus* pollen grains are sed at the _____
- a) 3-celled stage b) 2-celled stage
c) 1-celled stage d) 4-celled stage
- 24) In wich of the following roots are absent _____
- a) *Lycopodium* b) *Selaginella*
c) *Tmesipteris* d) *Equisetum*
- 25) *Psilotum* belongs to the order _____
- a) Psilophytales b) Psilotales
c) Lycopodiales d) Equisetales
- 26) In the *Psilotum* actinostele is present in the _____
- a) Rhizome b) Basal portion of the stem
c) Middle portion of the stele d) Apical region of the aerial shoot

27) Spore producing organ in the *Psilotum* is known as _____

a) Strobilus b) Sporangium
c) Synangium d) Sorus

28) *Psilotum* consists of _____

a) Root and Stem b) Root and Leaves
c) Stem and Leaves d) Root, stem and Leaves

29) Vallecular canal in *Equisetum* is situated

a) Below the ridge b) Below the furrows
c) Between the ridge and furrows c) Between pith and endodermis

30) Horsetail is the common name of _____

a) *Lycopodium* b) *Selaginella*
c) *Tmesipteris* d) *Equisetum*