

Shivaji University , Kolhapur
B.Sc. (Part- II) (Semester –IV) Examination, October-2020
BOTANY (PAPER-VIII) Subject. Code: 63704
(Cytogenetics and Utilization of Plant Resources)

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. Nuclear membrane is absent in _____
- a) Angiosperm b) Gymnosperm c) Bryophytes d) Bacteria
2. Which of the following Scientist discovered ribosome for the first time?
- a) George Emil Palade b) Theodor Schwann
c) Antonie van Leeuwenhoek d) Robert Hook
3. Nuclear membrane is present in Nucleus of _____
- a) Angiospermic organism b) Bacteria
c) Fungi d) Viruses
4. Nucleoplasm carries out the synthesis of _____
- a) mRNA b) tRNA c) Proteins d) Lipids
5. _____ ions are responsible for dissociation of ribosome
- a) Mg⁺⁺ b) Fe⁺⁺ c) Na⁺⁺ d) Ca⁺⁺
6. Eukaryotic ribosome is made up of Sedimentation Coefficient _____
- a) 60 S b) 80 S c) 40S d) 50S
7. Prokaryotic ribosomes Show _____ RNAs
- a) 2 b) 3 c) 4 d) 6

8. The unit membrane of nuclear envelope is about_____
- a) 75-90 °A b) 20-30 °A c) 40-70 °A d) 30-40 °A
9. Name the scientist who discovered Golgi apparatus?
- a) Robert Remake
b) Rudolf Virchow
c) Camillo Golgi
d) Theodor Schwann
10. Which of the following organelle takes part in the secretion?
- a) Cytoplasm
b) Ribosomes
c) ER compartments
d) Golgi apparatus
11. _____ are absent in blue green alga & Bacteria
- a) ER b) Mitochondria c) Mesosomes d) Ribosomes
12. Autolysis is found in _____
- a) Mesosome b) Dictyosome
c) Lysosome d) Ribosomes
13. Golgi Complex are located near _____
- a) Nucleus b) Mitochondria
c) Chloroplast d) Peroxisomes
14. Golgi bodies are absent in _____
- a) Plant b) Animal c) Insects d) Bacteria
15. Lysosome are absent in _____
- a) Bacteria b) Plant Cell c) animal cell d) Viruses
16. Singer-Nicholson's subunit model of cell membrane is also known as _____
- a) fluid mosaic Model b) Robertson Model
c) Davson Model d) Singers Model

17. Linkage in the *Drosophila* is Discovered by _____
a) Morgan b) Muller c) Mendel d) Bateson
18. Crossing over occur at _____
a) Pachytene b) Diakinesis
c) Zygotene d) Leptotene
19. In human beings _____ linkage groups occur
a) 46 b) 23 c) 33 d) 13
20. The unit of crossing Over is _____
a) Centimeter b) Millimeter
c) Centimorgan d) Milligram
21. The botanical Name of rubber plant is _____
a) *Hevea brasiliensis* b) *Lawsonia inermis*
c) *Hibiscus Visa –sinensis* d) *Azadiachta indica*
22. The rubber Obtained from *Hevea brasiliensis* is called _____
a) ceara rubber b) Para rubber
c) Assam rubber d) Lagos silk rubber
23. The collection of latex from rubber tree is called _____
a) Pressing b) Evaporation
c) Tapping d) Crushing
24. _____ is obtained from *Azadirachta*.
a) Azadirachtine b) Curcumin
c) indican d) Borneol
25. The botanical Name of Clove is
a) *Syzygium rubicundum* b) *Syzygium aromiticum*
c) *Syzygium jambolana* d) *Syzygium cumim*
26. *Justicia adhatoda* is commonly called _____
a) Clove b) Vasaka c) Turmeric d) Ashwagandha
27. _____ fruit are richest natural source of vitamin C
a) *Emblica* b) *Zingiber* c) *Withania* d) *Syzygium*

28..Zingiber originated in _____

a) Africa

c) south East asia

b) far East

d) Moluccas

29.Mendelian recombination are due to _____

a) Linkage

c) Crossing Over

b) Mutation

d) independent assortment

30. Crossing over lead to new _____

a) Character combination

c) Mutation

b) Deviation

d) Crossing Over