

OJEE 2014

BOTANY +2 Sc

1. Capsids are helical in shape in the following virus
 - a) Influenza virus
 - b) TMV
 - c) T-even phage
 - d) Adenovirus
2. Which of the following has DNA in it ?
 - a) TMV
 - b) Potato X virus
 - c) Cauliflower mosaic virus
 - d) Bean mosaic virus
3. Which of the following is known commonly as "Baker's yeast" ?
 - a) *Schizosaccharomyces pombe*
 - b) *Saccharomyces cerevisiae*
 - c) *Saccharomyces japonicus*
 - d) *Saccharomyces octosporus*
4. Spiral shaped chloroplasts are present in
 - a) *Funaria*
 - b) *Cycas*
 - c) *Spirogyra*
 - d) *Dryopteris*
5. Coralloid roots are present in
 - a) *Cycas*
 - b) *Pinus*
 - c) *Gnetum*
 - d) *Taxus*
6. Zygomorphic flowers are seen in
 - a) Malvaceae
 - b) Brassicaceae
 - c) Fabaceae
 - d) Orchidaceae
7. Binomial nomenclature was introduced by
 - a) Theophrastus
 - b) Linnaeus
 - c) Aristotle
 - d) Bentham and Hooker
8. *Hibiscus* sps. belongs to the family
 - a) Malvaceae
 - b) Brassicaceae

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c) Fabaceae d) Liliaceae

9. DNA molecule is made up of

- a) Fats b) Nucleic acids
- c) Chitins d) Amino acids

10. Muton is a unit of

- a) Mutation b) Recombination
- c) Synthesis d) Fission

11. The ribosomes of eukaryotes are

- a) 60 S type b) 70 S type
- c) 80 S type d) 90 S type

12. Crossing over occurs during

- a) Fertilization b) Pollination
- c) Mitosis d) Meiosis

13. The most fundamental characteristic of cells is

- a) Photosynthesis b) Respiration
- c) Protein synthesis d) Self reproduction

14. The interphase chromosomes are in a

- a) Condensed state b) Degraded state
- c) Decondensed state d) Denatured state

15. The phase between two mitotic divisions is called

- a) Metaphase b) Anaphase
- c) Telophase d) Interphase

16. The part of a plant that is inoculated on to the culture medium for plant tissue culture

- a) Plant organ b) Explant
- c) Synseed d) Propagule

17. BT cotton as an example of

- a) New generation plant b) Intergeneric hybrid plant
- c) Interspecific hybrid plant d) Transgenic plant

18. Cambium is a

- a) Lateral meristem b) Intercalary meristem

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- c) Apical meristem d) Secretory tissue

19. The end product of Glycolysis is

- a) Ethyl alcohol b) Citric acid
c) Pyruvic acid d) Glyceraldehyde phosphate

20. The molecule that traps light energy is

- a) Cyanacobalamin b) Riboflavin
c) Chlorophyll d) Propagule

21. The O₂ liberated during photo synthesis comes from

- a) Hydrolysis of carbohydrates
b) Photolysis of water
c) Break down of chlorophyll
d) Reduction of CO₂

22. The final electron acceptor of the electron transport chain is

- a) Cytochrome a₃ b) Cytochrome c
c) Plastoquinone d) Cytochrome b

23. The products of light reaction in photosynthesis are

- a) ADP & Glucose b) ATP & NADPH
c) Ferridoxin d) Plastoquinone & cytochrome f.

24. Ethylene induces

- a) Fruit production b) Shoot elongation
c) Root elongation d) Fruit ripening

25. The Earth and Atmosphere including the living organisms is known as

- a) Biosphere b) Biota
c) Ecosystem d) Ecology

26. A group of interacting organisms along with their environment is known as

- a) Biome b) Edaphic factors
c) Ecosystem d) Biota

27. This is an Edaphic factor

- a) Soil b) Temperature
c) Wind d) rainfall

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28. *Oryza sativa* is the botanical name of

- a) Wheat
- b) Rice
- c) Maize
- d) Bajra

29. Bacterial blight of rice is caused by

- a) *Agrobacterium sps*
- b) *Bacillus thuringiensis*
- c) *Erisiphe sps*
- d) *Xanthomonas oryzae*

30. Powdery mildew of peas is caused by

- a) *Agrobacterium sps*
- b) *Bacillus thuringiensis*
- c) *Erisiphe sps*
- d) *Xanthomonas oryzae*

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1. b
2. c
3. b
4. c
5. a
6. c
7. b
8. a
9. b
10. a
11. c
12. d
13. d
14. c
15. d
16. b
17. d
18. a
19. c
20. c
21. b
22. a
23. b
24. d
25. a
26. c
27. a
28. b
29. d
30. c