

Online Test Exam. - 11.05.2020

Class : B.Sc (~~BOT.~~ + ~~BIO TECH.~~)

Subject: Botany + Biotechnology

Full marks - 1x40 = 40.

Teacher - Dr. S. S. Sharma (8344612364)

01. Thallus of Oedogonium is -
a) Palmeloid b) siphonaceous c) coenobial d) filamentous.
2. Nostoc may form association as -
a) Endophyte b) Epiphyte c) Parasite d) Thaumophyte
3. Sexual reproduction in Chlamydomonas is -
a) Isogamous b) Anisogamous c) Both d) None.
4. All algae possess -
a) chl. b b) chl. a c) chl. c d) chl. d.
5. Red algae possess an important pigment -
a) chlorophyll b) carotene c) phycoerythrin d) xanthophyll.
6. Treanor (1978) classified the whole algae in -
a) 11 classes b) 02 groups, 08 Phylum, 16 classes c) 5 Divi + 13 classes.
7. Which algae is called Single cell Protein (SCP)? -
a) Nostoc b) Ulva c) Spirulina d) Porphyra
8. Agar-Agar, a constituent of culture medium is obtained from -
a) Microcystis b) Dictyota c) Diatoms d) Gelidium
9. The disease "Red-Rust-of-Tea" is caused by the alga -
a) Cephalosporium b) Scytonema c) Nostoc d) Ulothrix.
10. The most favourable alga in space research is -
a) Spirogyra b) Chlorella c) Anabaena d) Aulosira.
11. In Leguminous plants which alga forms nodules -
a) Azotobacter b) Rhizobium c) Clostridium d) Azotobacter
12. For the reduction of 1 ml. of Nitrogen in NH₃ how many H⁺ ions are required? -
a) 06 b) 04 c) 08 d) 10
13. Which one is the biological catalyst used during N₂ fixation -
a) Nitrogenase b) Esterases c) Proteases d) None
14. Nitrogenase enzyme is -
a) carbohydrate b) Lipid c) Protein d) None

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- 15) The amount of N_2 (by vol.) in atmosphere is —
a) 60%. b) 70%. c) 85%. d) 78%.
- 16) Milk glucose, lactose is converted into Lactic acid by the bacteria —
a) Acetobacter b) Streptococcus c) ~~Acetobacter~~ ^{E. coli} d) None
- 17) Bacteria Acetobacter aceti is responsible for —
a) Lactic acid ferment. b) Acetic acid f. c) Ethyl alcohol ferment.
- 18) Ethyl alcohol fermentation is carried out by —
a) Escherichia b) Clostridium c) Acetobacter d) Lactobacillus
- 19) Net gain of Ethyl alcohol fermentation is —
a) 04 ATP b) 06 ATP c) 02 ATP d) None.
- 20) Vinegar is —
a) Lactic acid b) Acetic acid c) Ethyl alcohol d) None
- 21) Vaccine for small pox was developed by —
a) L. Pasteur b) Twort c) d'Herelle d) Ed. Jenner.
- 22) TMV was crystallized by —
a) Pirie b) A. Lwoff c) W.M. Stanley d) None
- 23) Who said that — "A virus is a virus". —
a) A. Lwoff b) R. Gall ~~o~~ c) F. Sanger d) Stanley.
- 24) Bacteriophage was discovered independently by —
a) F. Twort b) d'Herelle c) Both d) None
- 25) Bacteriophage tail is made up of —
a) one component b) 2 components c) 3 components d) 4 components
- 26) Lambda phage virus shows —
a) lytic lifecycle b) lysogenic lifecycle c) both d) None.
- 27) Water blooms can be controlled with the help of —
a) Bacteriophages b) Cyanophages LPP-1 c) both d) None

→ P.T.O.

- 28) The time between infection by phage and the appearance of the mature virion within the cell is called — (3)
a) Adsorption b) Eclipse Period c) Maturation d) None
- 29) ϕ X174 has —
a) ssDNA b) dsDNA c) ssRNA d) dsRNA
- 30) In lytic life cycle the 'Latent Period' is —
a) 40 min. b) 60 min. c) 30 min. d) 20 min.
- 31) In TMV the number of capsomeres are —
a) 2030 b) 2,130 c) 3030 d) 3130
- 32) The novel coronavirus COVID-19 was reported in Dec 2019 from —
a) America b) China c) India d) None
- 33) Mycoplasma belongs to the kingdom —
a) Monera b) Protista c) Plantae d) Fungi.
- 34) Nuclear material in Mycoplasma is —
a) dsDNA b) ssDNA c) ssRNA d) dsRNA
- 35) The ribosome of Mycoplasma is of —
a) 70S type b) 80S type c) Both d) None
- 36) Rickettsia are obligate, intracellular bacteria which are —
a) Gram '-' b) Gram '+' c) None.
- 37) Rickettsia bacteria are commonly carried by —
a) Protozoa b) Annelids c) Arthropods d) None
- 38) 'Cholera' is caused by the bacteria —
a) Vibrio cholerae b) Trypanosoma pallidum c) Chlostridium d) None
- 39) After Gram staining the cell wall of Bacteria becomes —
a) orange b) yellow c) Red d) Purple.
- 40) In cyanobacteria the blue pigment is —
a) Phycoerythrin b) Phycocyanin c) Chlorophyll d) None
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Answers sheet

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Class - B.Sc; BOT / Biotech

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