



Level: Fourth level (Special Chemistry and Applied Chemistry) Date: 29/8/2016
Time: 1 hour Course: General Botany (100 B) “Summer semester”

A: Choose the right answer for the following sentences:

- In the five kingdom system, Cell type is prokaryotic in kingdom.
a) Monera b) Fungi c) Planta d) Protista
- Cell wall is absent in..... kingdom.
a) Animalia b) Fungi c) Monera d) Planta
- Viruses are characterized by
a) Ability to cause disease b) No metabolic activity c) Being cell d) Both a& b
- Viruses are
a) Infectious agent b) Obligate parasite c) 20-300 nm in size d) All of these
- Nucleocapsid is a structure of
a) Bacteria b) Viruses c) Algae d) Fungi
- The viral replication is a multistage process and include stage.
a) Adsorption b) cell separation c) cell synthesis d) None of these
- Bacteria are classified as when one flagellum is attached to one pole.
a) Monotrichous b) Amphitrichous c) Peritrichous d) Lophotrichous
- is a slime gelatinous layer affording protection against drying in bacteria.
a) Capsule b) Flagella c) Cytoplasm d) Nuclear material
- Selective permeability in bacteria is regulated by in bacteria
a) Cytoplasmic membrane b) Capsule c) Cytoplasm d) Inclusion granules
- Motility takes place in bacteria by
a) Flagella b) Cytoplasm c) Capsule d) Cell wall
- protects the delicate cytoplasmic membrane and maintains the shape of the bacteria. a) Cell wall b) Capsule c) Cytoplasm d) Flagella
- The morphology of the bacteria is three forms that include
a) Chloroplasts b) Cocci c) Cup-shaped d) Cubic
- are irregular bunches of bacterial cells and resemble clusters of grapes.
a) *Diplococci* b) *Micrococci* c) *Staphylococci* d) *Sarcina*
- are bacterial cells resembling a comma in appearance.
a) *Vibrio* b) Bacilli c) Cocci d) None of these
-are bacteria that build up complex substances from inorganic source (CO₂)
a) Autotrophs b) Heterotrophs c) Both a & b d) None of these
- Blue green algae could be
a) Unicellular b) Colonial c) Filamentous d) All of these
- Chlamydomonas* contains Chloroplasts.
a) Spiral b) Cup-shaped c) Spherical d) Axial
- consists of 16 *Chlamydomonas* cell packed in a gelatinous sheath.
a) *Spirogyra* b) *Pandorina* c) Diatoms d) *Nostoc*
- Pandorina* reproduces asexually by.....
a) Gametes b) Daughter colonies c) Cell division d) None of these
- conjugation in *Spirogyra* occurs between two parallel filaments.
a) Scalariform b) Lateral c) both a & b d) None of these



21. are bilaterally symmetrical in Diatoms.
a) *Pennales* b) *Centrales* c) both a & b d) None of these.
22. Xanthophyll pigment (fucoxanthin) occurs more commonly in
a) Chlorophyta b) Phaeophyta c) Bacilariophyta d) None of these
23. Fucus consists of
a) Medulla b) A blade c) Hold fast d) All of these.
24. is a brown algae that has both male and female parts.
a) Diatoms b) Spirogyra c) Fucus d) Pandorina

B) Complete the missing words:

1. Fungi help with bacteria to maintain
2. Fungi cause to plants and animals including man.
3. Both sexual and asexual reproduction of fungi occurs by formation of
4. Are produced in a chain at the end of a conidiophore.
5. Fungi are by examining their asexual spores.
6. A mass of hyphae referred to as a and each cell of the hyphae is
7. Reproduction of filamentous fungi takes place asexually by of their hyphae.
8. Aerial mycelium of *Rhizopus* produceswhile..... adhere to substratum and anchor fungus and absorb nutrients.
9. are unicellular forms, the cells being spherical or oval.
10. Yeasts multiply by or by
11. Yeasts are utilized in medicine as a source of and as source of vitamin.....

Best wishes

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Answers of the exam

A) The right answers are:

1. A) Monera
2. A) Animalia
3. D) Both A & B
4. D) All Of These
5. B) Viruses
6. A) Adsorption
7. A) Monotrichous
8. C) Capsule
9. A) Cytoplasmic Membrane
- 10.A) Flagella
- 11.A) Cell Wall
- 12.B) Cocci
- 13.C) Staphylococci
- 14.A) Vibrio
- 15.A) Autotrophs
- 16.D) All Of These
- 17.B) Cup-Shaped
- 18.B) Pandorina
- 19.B) Daughter Colonies
- 20.A) Scalariform
- 21.A) Pennales
- 22.B) Phaeophyta
- 23.D) All Of These
- 24.C) Fucus

B) The missing words are:

1. Soil fertility
2. Diseases
3. Spores
4. Conidiophores
5. Identified



6. Mycelium, eukaryotic
7. Fragmentation
8. Rhizoides, rhizoides
9. Yeast
10. Budding, fission
11. Enzymes, B complex (B_{12})