|  |  |
| --- | --- |
| **1** | **An outer flexible covering of ciliates is:**  a) Cell wall b) Pellicle c) Sheath d) Cuticle |
| **2** | **Members of phylum chrysophyta are commonly called:**  a) Brown Algae b) Red Algae c) Dinoflagellates d) Diatoms |
| **3** | **The lichen which are leaf like are called:**  a) Foliose b) Fruticose c) Crustose d) All above |
| **4** | **\_\_\_\_\_\_\_\_ is the largest group of fungi:**  a) Basidiomycota b) Zygomycota c) Ascomycota d) Deuteromycota |
| **5** | **Carcinogenic aflatoxins are produced by:**  a) Aspergillus b) Structural Only c) Neurospora d) Ustilago |
| **6** | **Mosses are:**  a) Arthrophytes b) Spermatophytes c) Bryophytes d) Liver worth |
| **7** | **All seed producing plants are called:**  a) Bryophytes b) Arthrophytes c) Spermatophytes d) None of these |
| **8** | **Bauhinia variegate is used as:**  a) Vegetable b) Ornamental c) Tanning d) All above |
| **9** | **The pore by which water enters the body of sponges is called:**   1. Osculum b) Ostia c) Mouth d) Pinacocytes |
| **10** | **Round worms are:**   1. Acoelomates b)Pseudocoelomates c) Coelomates d)None of these |
| **11** | **The larva found in echinoderms is:**   1. Trochophore b) Veliger c) Bipinnaria d) Planaria |
| **12** | **The first action spectrum was obtained by:**   1. T.W Engelmann b) Van Neil c) Melvin Calvin d) Ernst Haeckel |
| **13** | **Pyruvic acid is produced as a result of:**   1. Krebs cycle b) Glycolysis c) Phosphorylation d) Respiratory chain |
| **14** | **Sites of Digestion in the digestive system of man are:**  a) 01 b) 02 c) 03 d) 04 |
| **15** | **The length of Jejunum is about:**  a) 2.8 m b) 2 m c) 1.4 m d) 2.4 m |
| **16** | **Number of spiracles in Cockroach is:**  a) 10 b) 10 Pairs c) 08 Pairs d) 06 Pairs |
| **17** | **How much air lungs can hold when they are fully inflated**:   1. 05 Liters b) 04 Liters c) 1.5 Liters d) 4.5 Liters |

* **EDUTAINERS**

**Series – III Specialist of Sciences 01/05/17**

**Biology 2nd Half 1st Year Time:20mins Marks:17**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ( Ch # 7 to 13 )**

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| **Q** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** |
| **a** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **b** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **c** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **d** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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* **EDUTAINERS**

**Series – III Specialist of Sciences Date:01/05/17**

**Biology 2nd Half 1st Year Time:2:40mins Marks:68**

**( Ch # 7 to 13 )**

**Subjective Type**

**Section I**

**Q. 2. Attempt any EIGHT (8) short questions. (8 × 2=16)**

1. Differentiate between organismic and cellular respiration?
2. Write two properties of respiratory surface in animals?
3. What is respiratory distress syndrome?
4. Name the respiratory disorders?
5. What is compensation point?
6. How chlorophyll “a” differs with chlorophyll “b”?
7. Define absorption spectrum?
8. What is lactic acid fermentation? Give its reaction.
9. Different between radial and bilateral symmetry?
10. What is mesoglea and spongocoel?
11. Different between coelomates and acoelomates?
12. What is metamorphosis?

**Q. 3. Attempt any EIGHT (8) short questions. (8 × 2=16)**

1. What is maderporites?
2. Define placenta. What is its function?
3. How spores of mosses differ from spores of liver worts.
4. Define endocytosis
5. What is prothallus?
6. How double fertilization is important for storage of food?
7. Give importance of cassia alata?
8. Define hyphae. Give their two types ?
9. Define endomycorrhizae and ectomycorrhizae?
10. What are smuts?
11. Sketch structure of percillium?
12. Give the ecological importance of lichens?
13. What is ergotism? How is it caused?

**Q. 4. Attempt any SIX (6) short questions. (6× 2=12)**

1. What are Cnidocytes?
2. What is conidia?
3. Write a note on choanoflagellates ?
4. Different between foraminiferas and actinopods?
5. Define term thallus?
6. Explain red tides?
7. What Give the structure of red algae?
8. What is the importance of algae?
9. What was the reason for migration out of Ireland?

**(SECTION-II)**

**Note: Attempt any THREE questions. (8× 3 = 24)**

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| **Q. 5.** | a) | Explain economic losses due to fungi? | (4) |
|  | b) | Give the adaptations of fungi on land? | (4) |
| **Q. 6.** | a) | Describe at least four steps to the evolution of seed habit? | (4) |
|  | b) | Describe land adaptation of Bryophytes? | (4) |
| **Q. 7.** | a) | Describe in detail cyclic phosphorylation? | (4) |
|  | b) | Describe Krebs cycle? | (4) |
| **Q. 8.** | a) | Explain digestion in human stomach? | (4) |
|  | b) | Describe the role of large intestine? | (4) |
| **Q. 9.** | a) | Describe absorption of digested food in small intestine ? | (4) |
|  | b) | Explain inspiration and expiration in man? | (4) |
|  |  |  |  |