* **EDUTAINERS**

**Series – II Specialist of Sciences Date:12/04/17**

**BIO OTT2 1st Year Time:2hour Marks:60**

**( Ch # 3, 5, 8, 10, 13 )**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Objective**

**Q.1. choose the best answer, and fill the bubble Sheet.**

1. **Metals ions are related to:** 
   1. Coenzymes (b) Vitamins (c) Cofactors (d) Substrate
2. **Optimum pH for sucrase is :**

(a) 3.50 (b) 4.50 (c) 5.50 (d) 6.50

**3**. Induced fit model was proposed by**:**

(a) Email Fischer (b) Koshland (c) Jenner (d) Pasteur

**4. Family includes related:**

(a) Species (b) Genera (c) Families (d) Orders

1. **The common name for Solanum melangena is:**

(a) Onion (b) Brinjal (c) Potato (d) Amaltas

1. **Mad cow disease is caused by:**

(a) Virus (b) Becteria (c) Prions (d) Fungus

1. **Paramyxo viruses cause the disease:**

(a) Influenza (b) Polio

(c) Mumps & Measle (d) Herpes simple

1. **\_\_\_\_\_\_\_\_ is the largest group of fungi:**

(a) Basidiomycota (b) Zygomycota

(c) Ascomycota (d) Deuteromycota

1. **The pore by which water enters the body o sponges is called:**

(a) Osculum (b) Ostia

(c) Mouth (d) Pinacocytes

1. **Ancylostoma duodenal is biological name of:**

(a) Flat worm (b) Tape worm

(c) Round worm (d) Fluke

**11. Marsupium is the characteristic feature of:**

(a) Opossum (b) Echidna (c) Dolphin (d) Duckbill platypus

**12. Lungs of birds have thin walled ducts called:**

(a) Alveoli (b) Trachea

(b) Bronchi (d) Parabronchi

**13. Lungs are covered by double layered thin membranous sals called?**

(a) Pleura (b) Air seas

(c) Larynx (d) Diaphragm

**14. How much air lungs can hold when they are fully inflated:**

(a) 05 liters (b) 04 liters (c) 4.5 liters (d) 3.5 liters

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

***Head Office: 351-6-CII-Azmat Chowk Green Town Lahore / 0300-8404119/ 0332-8734119***

**Subjective**

**Section – I**

**Q.2. Write short answers of the followings. ( 2 x 15 = 30 )**

1. What is photorespiration?
2. State names of four properties of respiratory surfaces?
3. What are alveoli? Give their function.
4. Differentiate between radial and bilateral symmetry?
5. What are cnidocytes?
6. What is hermaphrodite animals? Give an example.
7. Define nuclear mitosis?
8. What are lichens? Give their importance.
9. What do you mean by budding are para sexuality?
10. Write down the four charactertics of enzymes?
11. Differentiate between reversible and irreversible enzyme inhibitors?
12. What is enzyme to enzyme chain?
13. Differentiate between lytic and lysogenic phagetic and cs of enzymeseachtion?
14. Write down symptoms and preventions of hepatitis?
15. Give biological classification of corn?

**Section – II**

**Long Question:**

**Q # 3:** (a) Describe life cycle of a Bacteriophage?

(b) Write a note of economic losses due to fungi with a reference to animal disease only?

**Q # 4:** (a) Define photorespiration. Explain. Its phenomenon?

(b) Explain the mechanism of enzyme action of detail?