|  |  |
| --- | --- |
| **1** | **A group of similar cells that perform similar function is:**  a) Organ b) Organelles c) Tissue d) System |
| **2** | **In free state, glucose is present in:**  a) Dates b) Amylase c) Glycogen d) Cellulose |
| **3** | **Lock and key model was proposed by:**  a) Koshland b) Emil Fischer c) Flaming d) Watson |
| **4** | **Cristae are found in:**  a) Golgi complex b) Chloroplast c) Mitochondria d) Endoplasmic reticulum |
| **5** | **Mad cow infection and mysterious brain infection in man are caused by:**  a) Bacteria b) Fungi c) Prions d) Viron |
| **6** | **Curved or comma shaped bacteria are called:**  a) Vibrio b) Spirillum c) Spirochetes d) Bacilli |
| **7** | **Test of foraminifera is made up of:**  a )Sillica b) Calcium c) Magnesium d) Sulphur |
| **8** | **Which of the following is not symptom of Ergotism:**  a) Convulsion b) Psychotic Delusion c) Indigestion d) Gangrene |
| **9** | **The biological name of Kachnar is**  a) Tamarindus indica b) Cassia fistula c)Bauhinia variegate d) Cassia renna |
| **10** | **A free swimming trochophore larva is produced during life cycle of:**  a) Annelid b) Porifera c) Coelenterate d)Arthropods |
| **11** | **The excretory system of Flatworms is composed of:**  a) Nephron b) Nephridia c) Flame cells d) Ganglia |
| **12** | **Pyruvic Acid is produced as a result of:**  a) Krebs cycle b) Glycolsis c) Phosphorylation d) Respiratory chain |
| **13** | **The first part of small intestine is called:**  a) Rectum b) Ileum c) Jejunum d)Duodenum |
| **14** | **Haeme portion of hemoglobin contains an atom of:**  a) Magnesium b) Iron c) Calcium d) Phosphorous |
| **15** | **During photorespiration, Glycine is converted into serine in the:**  a) Mitochondria b) Ribosome c) Golgi bodies d) Chloroplast |
| **16** | **The volume of dry seeds may increase up to 200 times after absorbing water by:**  a) Osmosis b) Oedema c) Hypertension d) Myocardial infarction |
| **17** | **Match heart attack with one of the followings:**   1. Stroke b) Oedema c) Hypertension d) Myocardial infarction |

* **EDUTAINERS**

**Series – V Specialist of Sciences Date:11/05/17**

**Paper: Biology Class: Intermediate (Part-I)**

**Time:** **20 Minutes** **(OBJECTIVE TYPE)**  **Marks:** **17**

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| **Paper Code:** | **7** | **6** | **2** | **1** |

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

NOTE: Write your Roll No. in space provided. Over-writing, Cutting, Erasing, Using lead pencil will result in loss of marks.

**Q.No.1:** You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circle. Cutting or filling two or more circles will result in zero mark in that question. Write the letter A, B, C or D in the column (Write correct option) against each question. If there is a contradiction in the bubble and hand written answer bubble option will be considered correct.

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

* **EDUTAINERS**

**Series – V Specialist of Sciences Date:11/05/17**

**Paper: Biology Class: Intermediate (Part-I)**

**Time:** **2:40 Minutes** **(SUBJECTIVE TYPE)** **Marks:** **68**

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| **Paper Code:** | **7** | **6** | **2** | **1** |

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

**Section I**

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

1. Differentiate between theory and law?
2. Define phyletic lineage and biodiversity?
3. What are Waxes?
4. Give four characteristics of enzymes?
5. What is active site of an enzyme?
6. What are enzyme inhibitors? Give two examples.
7. What is reverse transcriptase? Give its function.
8. What are pili? Give their functions.
9. What are lichens? Give their ecological importance.
10. Differentiate between Karyogamy and Plasmogamy?
11. What is double fertilization? Give its importance.
12. Name four subdivisions of Tracheophyta?

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

1. Write down salient features of cell theory?
2. Define congenital diseases. Give example.
3. Give two differences between Fungi like protists and fungi?
4. What is chlorella? Give its importance.
5. Differentiate between Foraminifera and Actinopoda.
6. Differentiate between polyps and madusae?
7. Define placenta. What is its function?
8. Differentiate between polyps and madusae?
9. Why annelids and Arthropods are considered having same origin?
10. What is swim bladder? Give its function.
11. Differentiate between Absorption and Action spectrum?
12. Define redox process. Give example?

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

1. What are filter feeders? Give their two examples?
2. Distinguish between Nutrient and Nutrition?
3. Differentiates between appendix and appendicitis?
4. What is Rubisco? Give its function.
5. Give effect of temperature onO2 carrying capacity off hemoglobin?
6. Define tuberculosis? Give its causes.
7. Give two characteristics of diving mammals?
8. Define Guttation? What factors affect it.
9. What is brain Hemorrhage? Give its two preventive measures?

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**(SECTION-II)**

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

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| **Q. 5.** | a) | Describe briefly the biological organization up to organism level? | (4) |
|  | b) | Write a detail note on Mycorrhizae? | (4) |
| **Q. 6.** | a) | Differentiate between Prokaryotic and Eukaryotic cell? | (4) |
|  | b) | Describe the metabolic pathways of glycolsis? | (4) |
| **Q. 7.** | a) | Describe linnaeous system of Binomial nomenclature in detail? | (4) |
|  | b) | Write a note on digestion in oral cavity in man? | (4) |
| **Q. 8.** | a) | Why carbon occupies the central position in the skeleton of life? | (4) |
|  | b) | Describe in detail “Evolution of leaf”? | (4) |
| **Q. 9.** | a) | Give general character of cyan bacteria with special reference of Nostoc ? | (4) |
|  | b) | Transpiration is necessary evil. Comment? | (4) |
|  |  |  |  |