* **EDUTAINERS**

**Series – I Specialist of Sciences Date:30/03/17**

**BIO Ch # 11 (2nd Half ) T17 1st Year Time :75min Marks:40**

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

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

1. **Most abundant protein in chloroplast is:**

(a) ATP syntheses (b) ATP are

(c) Rubisco (d) NADP+ reductase

1. **End product of calvin cycle is:**

(a) Glucose (b) Gtyceraldehyde 3- phosphate

(c) Glyceraldehydc (d) Glycerol

**3**. **In lactic and fermentation which conversion is true:**

(a) NAD+ NADH+H+ (b) NADH + H+  NAD+

(c) C3H4O3 C3H2O3 (d) C4H6O4 C3H6O3

**4. Which of following is not stimulant of glycolysis:**

(a) Insulin (b) AMP

(c) Dearease Citrate (d) Increased citrate

1. **Phases of glycolysis are \_\_\_\_\_ in number:**

(a) 10 (b) 5

(c) 3 (d) 2

1. **Whcih of following is not a coenzyme:**

(a) NAD+ (b) FAD+

(c) NADP+ (d) Haem group

1. **In which of following reaction of glycolysis inorganic phosphate is used?**

(a) 4 (b) 5

(c) 6 (d) 7

1. **Energy currency of cell is:**

(a) NADH (b) FADH2

(c) GTP (d) ATP

1. **Succinate Fumarate. In this reaction Co-enzyme used is:**

(a) FAD+ (b) NAD+

(c) ADP (d) GDP

1. **Oxidative phosphorylation occurs is\_\_\_\_\_\_\_ membrane of\_\_\_\_\_**

(a) Outer, mitochondria (b) Inner, mitochondria

(c) Outer , chloroplast (d) None

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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** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Subjective**

**Section – I**

**Q.2. Write short answers of the followings.**

1. Define glycolysis?
2. Differentiate between aerobic and anaerobic respiration?
3. What is alcoholic fermentation?
4. Draw only diagram of Electron transport chain?
5. What are cytochromes?
6. What is oxidative phosphorylation?
7. Write down reaction of oxidation of pyruvate?
8. Draw flow chart of only Preparatory phase of glycolysis ?
9. What is biological oxidative?
10. What is external respiration?
11. What is ATP?

**Long Question:**

**(i)** Explain Kreb’s cycle?

(ii) Write a not or Calvin cycle?