

P. S. Science & H. D. Patel Arts College, Kadi

Internal Examination 2018

Sem-4 (Biotechnology)

Paper- 401 Cellular metabolism-II

Date:- 6-3-18

Hours:- 2hrs

Time:- 1.45 to 3.45

Marks:-40

1 Attempted all questions..... (10x 1M=10M)

Q-1.1 stable product of C3 cycles

- A. OAA
- C. PGA
- B. PEP
- D. G3P

Q-1.2 Diffusion movement of solutes

- A. Higher to lower conc.
- B. Higher to moderate
- C. Lower to higher
- D. All

Q-1.3 PS-II system electron acceptor

- A. P700
- C. P720
- B. P680
- D. P690

Q-1.4 Insulin produced by

- A. Adipose tissue
- B. Alpha cell of islets
- C. Beta cell of liver
- D. B+C

Q-1.5 Transport system of cells

- A. Diffusion
- B. Active diffusion
- C. Passive diffusion
- D. None of them

Q-1.6 cyclic photophosphorylation

- A. PS-I
- B. PS-II
- C. PS-I, II
- D. All

Q-1.7-1.10 Answering the followings

- A. D. ADP Full form
- B. E. Example of pigments in plants
- C. F. Recation centre of sulfur bacteria
- D. G. Other Name of C3 cycles

Q-2 Answer any four (4) questions..... (5x4M=20M)

2.1 Define Photophosphorylation

2.2 Describe non cyclic Photophosphorylation in plants

- 2.3 Explain ATP and structure
- 2.4 Differentiate C3 and C4 cycles
- 2.5 Explain deamination
- 2.6 Describe diffusion with example

Q-3 Answer any one (1) question(10x1=10M)

- 3.1 Explain beta oxidation
- 3.2 Describe different pigments in plants