

P. S. SCIENCE & H. D. PATEL ARTS COLLEGE, KADI

Internal Examination

B. Sc. SEM - IV

[Mark : 40

10-3-2017]

Biotechnology (CC - 5)

[1-30 to 3-30

Cellular Metabolism II (401)

1. Attempted all questions

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(1) stable product of C3 & C4 cycles

(A) PGA & OAA

(C) PGA & PEP

(C) PEP & PGA

(D) PGA & G3P

(2) Amino acids contains.

(A) -COOH (B) -R

(C) -NH

(D) All

(3) The statements is NOT true for proteins.

(A) Proteins has disulphide bonds (C) Polypeptides bonds

(B) Polar atoms bond

(D) H band between C-O

(4) hypertonic does

(A) Shrink the cell

(B) Increase cell size

(B) Not any action

(D) Cells viable

(5) Example of transporter

(A) Na^{+2} - Ca^{+}

(C) H^{+} - Pb

(B) Mg^{+} - H^{+}

(D) None of them

(6) Which ONE is bacteria PS centre

(A) P650

(B) P780

(C) both

(D) none of them

• Answering the fallowings

(7) PS-I Full form

(8) Example of passive transport

(9) Reaction center of PS-II

(10) 12 NADPH = _____ ATP

2. Answer any four (4) questions.

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- (1) Define Photophosphorylation in bacteria.
- (2) Describe cyclic and non cyclic Photophosphorylation in plants.
- (3) Explain beta oxidation of lipids.
- (4) Explain urea cycle.
- (5) Explain diffusion and effected factors.

3. Answer any one (1) question.

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- (1) Explain types of membrane and transporters.
 - (2) Describe passive and active transport with examples.
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