

V.P.&R.P.T.P. SCIENCE COLLEGE

INTERNAL EXAM-SEMESTER -VI

BOTANY(US06CBOT06)



DATE-11/03/2017

TIME-10-30AM TO 12-00NOON

SATURDAY

TOTAL MARKS-25

QUE-1MCQ

(03)

(a)E.C.2.X.Y.Z belongs to which class of IUB system of enzyme classification:

(i) Transferases (ii) lyases (iii) ligases (iv) Isomerases

(b) How many ATP molecules are produced after complete oxidation of one molecule of palmitic acid.

(i) 130 (ii) 240 (iii) 38 (iv) 45

(iii) Which one of the following is an essential fatty acid:

(i) Palmitic acid (ii) Caproic acid (iii) Oleic acid (iv) Linoleic acid

QUE-2 Short Questions (answer any two)

(04)

(a) Give examples of omega 3-6-9 fatty acids.

(b) Write any reaction for substrate level phosphorylation.

(c) Define: Enzyme

Que-3 How glucose is converted from glucose to pyruvate?

(06)

OR

Que-3 Write reactions catalyzed by following enzymes.

(06)

(a) Malate dehydrogenase (b) Pyruvate dehydrogenase (c) Succinate dehydrogenase

Que-4 What is  $\beta$ -oxidation? How many ATP molecules are produced after complete oxidation of any fatty acid of your choice.

(06)

OR

Que-4 Write in detail on electron transport system.

(06)

Que-5 Derive M-M equation. OR

(06)

Que-5 Write a note on factors responsible for enzyme catalyzed reactions.

(06)