

Model Question Paper
Botony-Plant physiology - Part II
12th Standard

Biology

Reg.No. :

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- I. Answer all the questions.
- II. Use blue pen only.
- III. Question number 18 is compulsory.

Time : 01:00:00 Hrs

Total Marks : 75

5 x 1 = 5

Part-A

- 1) The pigment which is highly efficient in absorbing solar energy is
(a) phycobilins (b) chlorophyll (c) carotinoids (d) xanthophyll
- 2) Which of the following bacterium oxidizes ammonia to nitrate
(a) Nitrosomonas (b) Rhizobium (c) Closteridium (d) E.coli
- 3) Which of the following is a total parasite
(a) Cuscuta (b) Viscum (c) Drosera (d) Monotropa
- 4) Which of the following wavelengths of light is most effective for photosynthesis
(a) 100nm to 200nm (b) 200nm to 300nm (c) 400nm to 700nm (d) 700nm to 900nm
- 5) Dark respiration is the function of
(a) peroxisomes (b) mitochondria (c) chloroplast (d) ribosomes

Part-B

- 6) Write the overall equation of photosynthesis.
- 7) Why are chloroplasts in C_4 plants called dimorphic chloroplasts?
- 8) Define photorespiration
- 9) Write any two difference between photorespiration and dark respiration.
- 10) What are called total parasites?

5 x 3 = 15

Part-C

- 11) Write short notes on insectivorous plant.
- 12) Explain the process of chemosynthesis
- 13) Bring out the significance of photosynthesis
- 14) Describe the structure of chloroplast.
- 15) Write short notes on electron transport chain.

5 x 5 = 25

Part-D

- 16) Write an essay on photorespiration or C_2 cycle.
- 17) Write an account on the factors affecting photosynthesis.
- 18) a) Describe different modes of nutrition in angiosperms.

3 x 10 = 30

(OR)

- b) Write an account on glycolysis.
