



RAN - 1903001103020003

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S. Y. Biotech (Sem. - III) Examination

March 2023

Plant Morphology and Physiology : BT-07

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the details of signs on your answer book

Name of the Examination:

S. Y. Biotech (Sem. - III)

Name of the Subject :

Plant Morphology and Physiology : BT-07

Subject Code No.: **1903001103020003**

Seat No.:

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Student's Signature

(2) All questions are compulsory.

O.M.R. Sheet ભરવા અંગેની અગત્યની સૂચનાઓ આપેલ

O.M.R. Sheetની પાછળ છાપેલ છે.

***Important instructions to fillup O.M.R. Sheet
are given on back side of the provided O.M.R. Sheet.***

- Q. 1.** Long day plants also called _____.
- A) Long night plants B) Short night plants
C) Long day plants D) A & C
- Q. 2.** OP of a solution can be measured by _____.
- A) Photometer B) Osmometer
C) Calorimeter D) Plasmolysis
- Q. 3.** Which is the strongest solvent in the following?
- A) NaCl solution B) Pure water
C) H₂SO₄ D) HNO₃
- Q. 4.** Endosmosis takes place when a plant cell is immersed in
- A) Hypotonic solution B) Isotonic solution
C) Hypertonic solution D) HCl solution
- Q. 5.** Which one is an example of natural cytokinin _____.
- A) IBA B) IAA
C) Zeatin D) Kinetin
- Q. 6.** What is the full form of DPD?
- A) Diffusion potential deficit B) Diffusion pressure deficit
C) Diffusion pressure deposite D) Diffusion potential deposite
- Q. 7.** The Leaf arise from the part of the stem.
- A) Internodes B) Node
C) Petiole D) Margin
- Q. 8.** Stomata open at night and close during day time in _____.
- A) Xerophytes B) Terrestrial plant
C) Succulents plant D) Hydrophytes
- Q. 9.** Which micronutrient is involved in Nitrogen fixation _____.
- A) Molybdenum B) Boron
C) Copper D) Zinc

- Q. 10.** Which two hormone are antagonistic phyto-hormones
A) Auxin and cytokinin B) Auxin and Gibberellins
C) ABA and Gibberellins D) Cytokinin and Gibberellins
- Q. 11.** The leaf part Lamina is also called _____.
A) Hypopodium B) Epipodium
C) Mesopodium D) None
- Q. 12.** Pure water is the strongest _____.
A) Solvent B) Solute
C) Solution D) Both B & C
- Q. 13.** What is the unit of water potential?
A) Mega Fahrenheit B) Mega Pascal
C) Mega Kelvin D) Mega Celsius
- Q. 14.** Some Monocot plants, leaf base is expanded is called _____.
A) Petiole B) Sheath
C) Pulvinus D) Calyx
- Q. 15.** In which flower position the margin of the thalamus grows upward to form a cup shaped structure?
A) Hypogyny B) Epigyny
C) Perigyny D) Mesogamy
- Q. 16.** In chloroplast the photosynthetic pigments are located at
A) Inner membrane B) Thylakoid membrane
C) Thylakoid lumen D) Outer membrane
- Q. 17.** There are _____ essential whorls present in flower.
A) 1 B) 2
C) 3 D) 4
- Q. 18.** The induction of a plant's flowering process by exposure to the prolonged cold of winter, or artificial low temperature is termed as
A) Cryopreservation B) Vernalization
C) Vitrification D) Sterilization

- Q. 19.** Which is responsible for increase the cell number?
A) Meristematic zone B) Maturation region
C) Elongation region D) All
- Q. 20** Shoot system is initiated through _____.
A) Radical B) Plumule
C) Petiole D) Pulvinis
- Q. 21.** Almost 9 % of transpiration is carried out through _____.
A) Lenticular transpiration B) Cuticular transpiration
C) Stomatal transpiration D) All of the above
- Q. 22.** When pollen tube enters the ovule through Micropyle, fertilization is called _____.
A) Porogamy B) Chalazogamy
C) Mesogamy D) All
- Q. 23.** In which type, the stomata open throughout the daytime and close at night.
A) Barely type B) Alfafa type
C) Potato type D) Equisetum type
- Q. 24.** Give an example of Succulent plant.
A) Cabbage B) Pea
C) Bryophyllum D) Cereals
- Q. 25.** When fruits are develop from many carpels, fruits called
A) Simple B) Composite
C) Aggregate D) Drupe
- Q. 26.** Water potential is represented by _____.
A) Bars B) Pascals
C) Atmospheres D) All
- Q. 27.** Functional unit of Photosynthesis is
A) Electron B) Photon
C) Phagosome D) Quantasome

- Q. 36.** Which is active form of phytochrome?
A) Pfr
B) Pr
C) Both
D) None
- Q. 37.** Calvin cycle occurs in which organelle _____.
A) Mitochondria
B) Chloroplast
C) Cytoplasm
D) Glyoxysomes
- Q. 38.** Science which deals with the branch of biology that deals with the study of plants, including their structure, properties, and biochemical processes
A) Zoology
B) Immunology
C) Botany
D) Mycology
- Q. 39.** _____ are elements required by plants in relatively large quantities?
A) Micronutrients
B) Macronutrients
C) Phytohormones
D) Vitamins
- Q. 40.** Hanging structures providing support present in banyan trees are _____.
A) Prop root
B) Stilt root
C) Tap root
D) Strap root
- Q. 41.** In these stomata the guard cells are surrounded by two or more accessory cells.
A) Diacytic type
B) Anisocytic type
C) Anomocytic type
D) Paracytic type
- Q. 42.** Which theory was given by Eminent Scientist Prof. J C Bose?
A) Root pressure
B) Pulsation theory
C) Capillary force theory
D) Inhibition theory
- Q. 43.** The first step for initiation of photosynthesis will be _____.
A) Photolysis of water
B) Excitement of chlorophyll molecules due to absorption of light
C) ATP formation
D) Glucose formation

SPACE FOR ROUGH WORK