



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. 27.** 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. 28.** Which is responsible for increase the cell number?
- A) Meristematic zone B) Maturation region
C) Elongation region D) All
- Q. 29** Shoot system is initiated through _____.
- A) Radical B) Plumule
C) Petiole D) Pulvinis
- Q. 30.** Almost 9 % of transpiration is carried out through _____.
- A) Lenticular transpiration B) Cuticular transpiration
C) Stomatal transpiration D) All of the above
- Q. 31.** When pollen tube enters the ovule through Micropyle, fertilization is called _____.
- A) Porogamy B) Chalazogamy
C) Mesogamy D) All
- Q. 32.** 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. 33.** Give an example of Succulent plant.
- A) Cabbage B) Pea
C) Bryophyllum D) Cereals
- Q. 34.** When fruits are develop from many carpels, fruits called
- A) Simple B) Composite
C) Aggregate D) Drupe
- Q. 35.** Water potential is represented by _____.
- A) Bars B) Pascals
C) Atmospheres D) All

- Q. 44.** Which theory proposed that water molecules have strong cohesive force and they have strong natural attraction.
- A) Transpiration pull theory B) Root pressure theory
C) Vital theory D) None
- Q. 45.** Which is active form of phytochrome?
- A) Pfr B) Pr
C) Both D) None
- Q. 46.** Calvin cycle occurs in which organelle _____.
- A) Mitochondria B) Chloroplast
C) Cytoplasm D) Glyoxysomes
- Q. 47.** 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. 48.** _____ are elements required by plants in relatively large quantities?
- A) Micronutrients B) Macronutrients
C) Phytohormones D) Vitamins
- Q. 49.** Hanging structures providing support present in banyan trees are _____.
- A) Prop root B) Stilt root
C) Tap root D) Strap root
- Q. 50.** 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
- _____

SPACE FOR ROUGH WORK