



# BIOLOGY

**BOOKS - CHETANA PUBLICATION**

## **PLANT GROWTH AND MINERAL NUTRITION**

### **Example**

1. Do you think that the growth is property of living beings only?



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2. Is there any difference between plant growth and animal growth?



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3. What is the difference between growth of non-living material and living organism?



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4. Define Growth.



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5. Plant growth is localized and irreversible.

Give reason.



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6. Describe growth in brief.



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7. Write a short note on Earth's atmosphere?



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8. Explain the aspects of growth.



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9. What does it mean by 'open growth'?



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**10.** Enlist the important characteristics of plant growth.



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**11.** Describe the phases of growth.



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**12.** Describe the phases of growth.





**Watch Video Solution**

**13. Describe the phases of growth.**



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**14. Write a short note on: Elongation phase.**



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**15.** Enlist the different environmental and physiological conditions necessary for the growth.



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**16.** Describe in detail the chief conditions needed for growth.



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**17.** What is growth rate?



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**18.** How is rate of growth measured?



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**19.** What are the different terms to consider in order to measure growth in plants?



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20. Describe various methods for measurement of linear growth of stem and radicle.



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21. What is growth rate? Explain types of growth rate.



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22. What is absolute growth rate (AGR) and relative growth rate (RHR)?



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23. Differences between arithmetic and geometric growth.



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24. What are the three types of growth curves?





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25. Define Lag phase.



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26. Define Exponential (Log) phase.



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27. Define Stationary (steady) phase.





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**28.** During which phase maximum growth takes place?



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**29.** What changes occur in cells with respect to different growth phases?



[Watch Video Solution](#)

**30.** "Growth curve is always 'S' shaped or sigmoid" Justify.



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**31.** What is Grand period of Growth (GPG)?



**Watch Video Solution**

**32.** Write a short note on Grand Period of Growth.



**Watch Video Solution**

**33.** Explain sigmoid growth curve with the help of diagram.



**Watch Video Solution**

**34.** Explain defferent phases of growth with the help of growth curve.



**Watch Video Solution**

**35.** Sketch label and describe the standard growth curve.



**Watch Video Solution**

**36.** What changes occur in cells with respect to different growth phases?



**Watch Video Solution**

**37.** Is there any relation between phases of growth and regions of growth curve?



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**38.** Write short note on: Differentiation.



**Watch Video Solution**

**39.** Write short note on: De-differentiation.



**Watch Video Solution**



**40.** Write short note on Re-differentiation.



**Watch Video Solution**

**41.** Define Development.



**Watch Video Solution**

**42.** What is development? What are the factors influencing development?



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**43.** What is the sequence of developmental process in plant cell?



[Watch Video Solution](#)

**44.** With the help of a flow chart represent the sequence of the developmental process in plant cell.



[Watch Video Solution](#)

**45.** Defnie plasticity.



**Watch Video Solution**

**46.** Write short note on: Plasticity.



**Watch Video Solution**

**47.** Define Phytohormones.



**Watch Video Solution**

**48.** What are the types of growth regulators?



**Watch Video Solution**

**49.** What are the characteristics of growth hormone?



**Watch Video Solution**

**50.** Which tissue transports plant hormones?





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51. Who coined the term "Auxin"?



[Watch Video Solution](#)

52. Explain in brief the surface tension property observed in liquid at rest.



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**53.** Write a note on "Avena Coleoptila test".



**Watch Video Solution**

**54.** Describe in detail the contribution of various scientists during the process of discovery of auxin as the first plant hormone.



**Watch Video Solution**

**55.** Write a short note on: Apical dominance.



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56. "Art of pruning" is practised by gardeners.

Give reason.



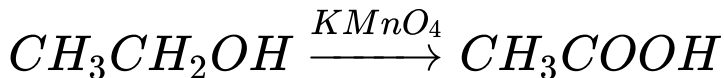
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57. Give the physiological effects and applications of auxins" .



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**58.** State the role of reagents shown on arrows in the following chemical reactions.



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**59.** Give the full form of IAA?



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**60.** Which hormones are used to produce seedless or parthenocarpic fruits?



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**61.** How dicotyledonous weeds can be eliminated from a monocot crop field?



**Watch Video Solution**

**62.** Which is standard bioassay method for auxins?



**Watch Video Solution**

**63.** Who discovered gibberellins and How?



**Watch Video Solution**

**64.** Who coined the term evolution?



**Watch Video Solution**

**65.** Which is the first discovered, most studied Gibberellin? State its chemical composition.



**Watch Video Solution**

**66.** How does the synthesis and transport of Gibberellins occur?



**Watch Video Solution**

**67.** What are gibberellins?



**Watch Video Solution**

**68.** Enlist the applications of gibberellins.



**Watch Video Solution**

**69.** What is the role of gibberellin in rosette plants?



**Watch Video Solution**

**70.** What induces parthenocarpy in grapes?



**Watch Video Solution**

**71.** What can include bolting in a cabbage plant?



**Watch Video Solution**

**72.** Effect of Gibberellin application of apple.



**Watch Video Solution**

**73.** Which is standard bioassay method for gibberellin?



**Watch Video Solution**

**74.** Who discovered first cytokinin? And how?



**Watch Video Solution**

75. Who coined the term "Auxin"?



[Watch Video Solution](#)

76. What is Richmond- Lang effect?



[Watch Video Solution](#)

77. Name the first natural cytokinin obtained from unripe maize grains.



[Watch Video Solution](#)

**78.** Which plant hormone is named anti-aging hormone?



**Watch Video Solution**

**79.** Name the plant hormone that can delay senescence.



**Watch Video Solution**



**80.** What are cytokinins? How are they synthesised?



**Watch Video Solution**

**81.** Give the physiological effects and applications of auxins" .



**Watch Video Solution**

**82.** How can we overcome apical dominance?



**Watch Video Solution**

**83.** Which is standard biossary method for cytokinin?



**Watch Video Solution**

**84.** What is Ethylene?"



**Watch Video Solution**

**85.** Ethylene is also called as the ripening hormone. Give reason.



**Watch Video Solution**

**86.** What does an over ripe apple release, which affect all other apples in a basket?



**Watch Video Solution**

**87.** State the history of Ethylene invention.



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**88.** What is the chemical nature of Ethylene?



[Watch Video Solution](#)

**89.** Enlist the physiological effects and applications of ethylene.



[Watch Video Solution](#)

**90.** Describe different actions of gaseous natural plant hormone in plants.



**Watch Video Solution**

**91.** Define Degreening.



**Watch Video Solution**

**92.** Which is standard bioassay method for ethylene?



[Watch Video Solution](#)

**93.** Name the plant hormone that inhibits the growth of plants."



[Watch Video Solution](#)

**94.** Name the stress hormone in plants that functions during drought.



[Watch Video Solution](#)

**95.** Which is the plant stress hormone?



**Watch Video Solution**

**96.** ABA is called as stress hormone. Why?



**Watch Video Solution**

**97.** Describe the invention of Abscissic acid (ABA).



**Watch Video Solution**

**98.** Chemical nature of chitin is..... .



**Watch Video Solution**

**99.** What are the key roles of Absciscic acid?



**Watch Video Solution**

**100.** Describe the physiological effects of Absciscic acid.







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**101.** What are the applications of buffer solutions?



[Watch Video Solution](#)

**102.** Which is standard bioassay method for Abscisic acid?



[Watch Video Solution](#)

**103.** Define photoperiodism.



**Watch Video Solution**

**104.** What is photoperiodic stimulus?



**Watch Video Solution**

**105.** What are Phytochromes?



**Watch Video Solution**

**106.** What is critical photoperiod?



**Watch Video Solution**

**107.** What is short day plant? Give any two examples?



**Watch Video Solution**

**108.** What is long day plant? Give any two examples?



**Watch Video Solution**

**109.** What is Vernalization? Give its significance.



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**110.** Write a short note on ATP.



**Watch Video Solution**

**111.** What is devernalization?



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**112.** Define Essential and Non-essential elements



**Watch Video Solution**

**113.** Define: Mineral nutrition.



**Watch Video Solution**

**114.** Define Essential and Non-essential elements



**Watch Video Solution**

**115.** Enlist various essential elements required for the growth of plants.



**Watch Video Solution**

**116.** What do you mean by macronutrients and micronutrients? Give examples



**Watch Video Solution**

**117.** Differentiate between macronutrients and micronutrients.



**Watch Video Solution**

**118.** What are hunger signs in plants?



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**119.** What are the various criteria for essential of elements?



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**120.** Describe the different types of photosynthetic pigments.



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**121.** What are the requirements for materials used in solar cell.



**Watch Video Solution**

**122.** Define Chlorosis and Necrosis.



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**123.** Write a note on mineral toxicity.



**Watch Video Solution**

**124.** Explain the role/functions and deficiency symptoms of any one macronutrients.



**Watch Video Solution**

**125.** What is meant by absorption of minerals?



**Watch Video Solution**

**126.** In which form, minerals are absorbed by root cells?



**Watch Video Solution**

**127.** "Mineral absorption is mainly an active process". Justify.



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**128.** Different modes of passive absorption and active absorption of mineral in plants.



**Watch Video Solution**

**129.** Differentiate between Active and Passive Absorption.



**Watch Video Solution**

**130.** Write a note on Donnan equilibrium.



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**131.** List and explain two mechanism of water absorption.



[Watch Video Solution](#)

**132.** How are the minerals absorbed by the plant?



[Watch Video Solution](#)

**133.** What is nitrogen cycle?



**Watch Video Solution**

**134.** How is the regular supply of nitrogen maintained to plants?



**Watch Video Solution**

**135.** What is nitrogen fixation?



**Watch Video Solution**

**136.** Answer the given question orally:

Name the microorganisms that help in biological fixation of nitrogen.



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**137.** Name the two types of biological nitrogen fixation.



**Watch Video Solution**

**138.** Name the two types of nitrogen fixers.



**Watch Video Solution**

**139.** Name the best-known symbiotic nitrogen fixing bacterium.



**Watch Video Solution**

**140.** Name two free living nitrogen fixing bacteria.



**Watch Video Solution**



**141.** What is nitrification?



**Watch Video Solution**

**142.** Name the enzyme involved in biological nitrogen fixation.



**Watch Video Solution**

**143.** Which pigment is present in the root nodules of legumes/leguminous plants/family Fabacea?



**Watch Video Solution**

**144.** What is the function of leghaemoglobin in root nodules of legumes (Pea, Beans, Gram)?



**Watch Video Solution**

**145.** How does leghaemoglobin protect nitrogenase?



**Watch Video Solution**

**146.** The enzyme secreted by the pancreas is



**Watch Video Solution**

**147.** What type of condition is created by leghaemoglobin in the root nodules of

legumes?



[Watch Video Solution](#)

**148.** What is ammonification?



[Watch Video Solution](#)

**149.** What is nitrogen assimilation?



[Watch Video Solution](#)

**150.** What is Denitrification?



**Watch Video Solution**

**151.** Name the bacteria responsible for conversion of nitrite to nitrate.



**Watch Video Solution**

**152.** List the organisms capable of Biological nitrogen fixation.



**Watch Video Solution**

**153.** Name the bacteria responsible for conversion of nitrite to nitrate.



**Watch Video Solution**

**154.** Give the biological significance of Nitrogen.



**Watch Video Solution**

**155.** What are/name the nitrifying bacteria of the soil?



**Watch Video Solution**

**156.** Why do farmers use leguminous crops to provide nitrogen to the soil? Explain.



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**157.** Why do farmers grow leguminous crops after harvesting cereal crops?



**Watch Video Solution**

**158.** What is nitrification?



**Watch Video Solution**

**159.** How do some bacteria carry out nitrification? What are such bacteria called?





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**160.** Name the enzyme involved in biological nitrogen fixation.



[Watch Video Solution](#)

**161.** Name the enzyme involved in biological nitrogen fixation.



[Watch Video Solution](#)

**162.** How are amino acids synthesized in plants?



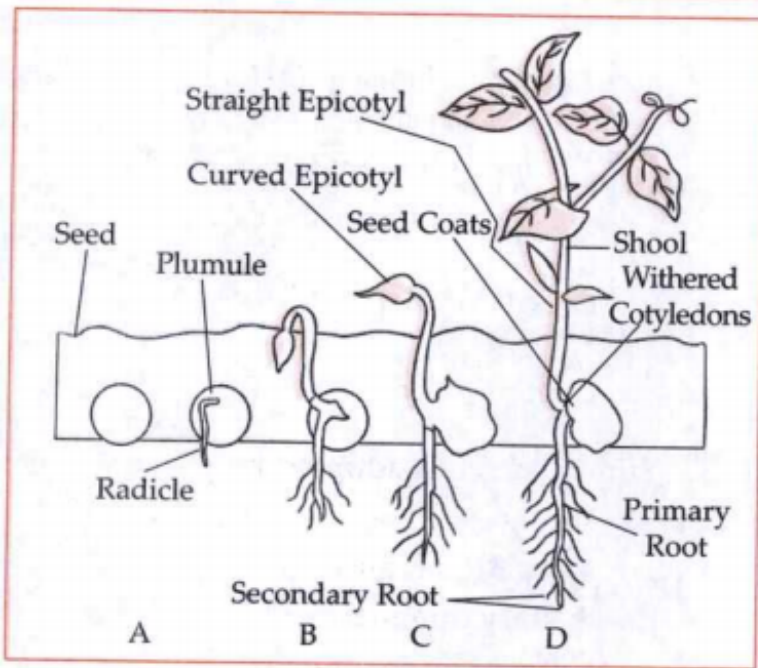
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**163.** Give a detailed account of nitrogen cycle with a schematic representation.



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**164.** Label the following diagrams and identify the types of seed germination



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1. Give the scientific term for the following:  
Utilization of various absorbed ions by a plant  
for its growth and development.



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2. Give the scientific term for the following:  
The technique of growing plants in water or  
solution culture.



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**3.** Give the scientific term for the following:

Yellowing of leaves due to loss of chlorophyll.



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**4.** Give the scientific term for the following:

Localised death of tissues of leaves or young shoots.



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5. Give the scientific term for the following:  
premature fall of leaves, flowers and fruits.



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6. Give the scientific term for the following:  
The growth phase is which growth occurs at  
an accelerated pace.



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7. Give the scientific term for the following:

The ratio of change in the cell number over the time interval.



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8. Give the scientific term for the following:

Influence of light on the flowering in higher plants.



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**9.** Give the scientific term for the following:  
Chilling treatment that induces early flowering  
in plants.



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**10.** Give the scientific term for the following:  
Light receiving proteinaceous pigment.



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**11.** State whether the following statements are True or False: Gibberellins cause parthenocarpy in some type of fruits.



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**12.** State whether the following statements are True or False: Ethylene retards senescence of leaves, flowers and fruits.



**Watch Video Solution**

**13.** State whether the following statements are True or False: Growth is rapid in lag phase.



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**14.** State whether the following statements are True or False: As the cells cease to divide, they increase in size.



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**15.** State whether the following statements are True or False: Sunflower is long day plant.



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**16.** Which of the hormones can replace vernalization?

A. Auxin

B. Cytokinin

C. Gibberellin

D. Ethylene

**Answer:**



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**17.** The principle pathway of water translocation in angiosperms is.....

A. Sieve cells

B. Sieve tube elements

C. Xylem

D. Xylem and phloem

**Answer:**



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**18.** Abscisic acid controls.....

A. cell division

B. leaf fall and dormancy

C. shoot elongation

D. cell elongation and wall formation

**Answer:**



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**19.** Which is employed for artificial ripening of banana fruits?

A. Auxin

B. Ethylene

C. Cytokinin

D. Gibberellin

**Answer:**



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**20.** Which of the following is required for stimulation of flowering in the plants?

- A. Adequate oxygen
- B. Definite photoperiod
- C. Adequate water
- D. Water and minerals

**Answer:**



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**21.** For short day plants, the critical period is.....

A. light

B. dark/night

C. u v rays

D. both a and c



**Answer:**



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**22.** Which of the following is not a day neutral plant?

A. Tomato

B. Cotton

C. Sunflower

D. soybean

**Answer:**



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**23.** Essential macroelements are.....

- A. manufactured during photosynthesis
- B. produced by enzymes
- C. absorbed from soil
- D. produced by growth hormones

**Answer:**



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**24.** Function of Zinc is.....

- A. closing of stomato
- B. bioisynthesis of 3-IAA
- C. synthesis of chlorophyll
- D. oxidation of carbohydrates

**Answer:**



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25. Necrosis means.....

A. Yellow spots on the leaves

B. death of tissue

C. darkening of green colour in leaves

D. wilting of leaves

**Answer:**



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26. Conversion of nitrates to nitrogen is called....

- A. ammonification
- B. nitrification
- C. nitrogen fixation
- D. denitrification

**Answer:**



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27. How many molecules of ATP are required to fix one molecule of nitrogen?

A. 12

B. 20

C. 6

D. 16

**Answer:**



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28. Pruning practice adopted by gardeners is based on.....

- A. apical dominance
- B. axillary dominance
- C. Gibberellin treatment
- D. auxin treatment

**Answer:**



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29. The fruit ripening hormone is .....

A. ethylene

B. auxin

C. Cytokinin

D. abscissic acid

**Answer:**



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30. Chromophore pigments are associated with.....

A. phytochromes

B. cytochromes

C. chromosomes

D. centrosomes

**Answer:**



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31. Gibberellins was first isolated from.....

A. *Avena sativa*

B. algae

C. fungus

D. pteridophytes

**Answer:**



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32. Senescence is a phenomenon of ..... an organ.

A. acceleration

B. degradation

C. formation

D. regeneration

**Answer:**



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33. F.W. Went showed the presence of auxin by performing experiment on .....

A. *Triticum vulgare*

B. *Avena sativa*

C. *Zea mays*

D. *Magifera indica*

**Answer:**



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34. Seed dormancy is due to .....

A. ethylene

B. abscisic acid

C. Cytokinin

D. auxin

**Answer:**



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35. Apical dominance in plants is due to .....

A. enzymes

B. minerals

C. hormones

D. phytochromes

**Answer:**



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**36.** Parenchymatous cell may regain the capacity of cell division, this phenomenon is called.....

A. redifferentiation

B. differentiation

C. reaffirmation

D. dedifferentiation

**Answer:**



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37. In a growing plant, the very first phase during the process of growth is .....

- A. cell division
- B. cell enlargement
- C. cell maturation
- D. cell differentiation

**Answer:**



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**38.** Two climatic factors which affect growth are .....

A. light and Wind

B. light and temperature

C. rain and temperature

D. atmospheric humidity and temperature

**Answer:**



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**39.** Formation phase is .....

A. region of cell elongation

B. region of cell division

C. region of cell maturation

D. phase of differentiation

**Answer:**



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40. Growth hormone responsible for apical dominance is.....

A. Auxin

B. Cytokinin

C. gibberellin

D. ethylene

**Answer:**



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41. Gibberellins was first isolated from.....

A. Gibberella

B. gelidum

C. gracelaria

D. aspergilus

**Answer:**



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42. Which one is the function of gibberellin?

A. Bolting in cabbage

B. Morphogenesis in tobacco callus

C. Rapid division in carrot cells

D. Elongation of cut coleoptile

**Answer:**



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**43. Gibberellins promote .....**

A. Root elongation

B. seed germination

C. seed dormancy

D. leaf fall

**Answer: root elongation**



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**44. Cytokinin .....**

A. promote abscission

B. influence water movement

C. help to retain chlorophyll

D. inhibit protoplasmic streaming

**Answer:**



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**45.** Hormone discovered through tissue culture technique is.....

A. Auxin

B. Cytokinin

C. gibberellin

D. abscissic acid

**Answer:**



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**46. Synthetic plant hormone is.....**

A. IAA

B. 2, 4-D

C. GA



D. Zeatin

**Answer:**



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**47.** Pruning of plants promotes branching due to sensitisation of axillary buds by .....

A. IAA

B. Ethylene

C. Gibberellin

D. Cytokinin

**Answer:**



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**48.** If we remove apical bud in a flowering plant what will happen?

A. Promotion of lateral branching

B. Early flowering

C. Formation of a new apical bud

D. Adventitious root formation on the cut side

**Answer:**



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**49.** Ageing is related to which of the following hormone?

A. Auxin

B. Gibberellin

C. Cytokinin

D. ABA

**Answer:**



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**50.** The deterioration process in plants, that naturally terminates their functional life is called.....

A. abscission

B. wilting

C. plasmolysis

D. senescence

**Answer:**



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**51.** Genetically dwarf pea plant ( $tt$ ) can become phenotypically tall if treated with...

A. GA

B. 2, 4, 5-T

C. ABA

D. Colchicine

**Answer:**



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**52.** Florigen is produced in the region of .....

A. leaves

B. fruit

C. root

D. trunk

**Answer:**



**Watch Video Solution**

**53.** A long day plant is .....

A. Wheat/spinach

B. soybean

C. tobacco

D. xanthium

**Answer:**



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**54.** Flowering is influenced by .....

A. soil water content

B. soil acidity

C. photoperiod

D. content of green pigment



**Answer:**



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**55.** Garner and Allard are concerned with  
.....

A. photoperiodism

B. phototropism

C. photoysis

D. photophosphorylation

**Answer:**



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**56.** Photoperiodism was discovered in a variety of .....

A. rice

B. tomato

C. wheat

D. tobacco

**Answer:**



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**57. Vernalisation term was coined by .....**

A. Malchers

B. Lysenko

C. Klippart

D. Garner

**Answer:**



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58. Hormone responsible for vernalization is

.....

A. abscisin

B. vernalin

C. florige

D. caulocaline

**Answer:**



59. Vernalization occurs in response to .....

- A. high light intensity
- B. low temperature
- C. high temperature
- D. low light intensity

**Answer:**



60. Resumption of active growth in the sleeping embryo is an indication of the beginning of .....

- A. dormancy phase
- B. quiescent phase
- C. germination phase
- D. rest phase

**Answer:**



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61. The growth process is slow, and the rate of growth is low and very gradually increasing during .....

A. deceleration phase

B. lag phase

C. both a and b

D. log phase

**Answer:**



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62. Which of the following growth regulators in plants are influenced by light?

A. Auxin

B. Gibberellin

C. Cytokinin

D. All of thses

**Answer:**



**Watch Video Solution**



63. In germinating grains, activity of enzymes  $\alpha$ -amylase is induced by .....

A. IAA

B. GA

C. ABA

D. NAA

**Answer:**



**Watch Video Solution**

64. Long day plants can be made to flower even under short day conditions if treated with.....

A. auxins

B. gibberellins

C. Cytokinin

D. chilling treatment

**Answer:**



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**65.** Identify the SDP from the given examples,

.....

A. spinach

B. xanthium

C. tomato

D. cotton

**Answer:**



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66. The flowering hormone is called.....

A. phytochrome

B. vernalin

C. photosensitive pigment

D. florigen

**Answer:**



**Watch Video Solution**

67. Vernalization treatment can convert....

- A. a biennial into an annual
- B. a spring variety into a winter variety
- C. an annual into a perennial
- D. all of these as mentioned

**Answer:**



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**68.** Chlorosis results from the deficiency of

.....

A. Sodium

B. Boron

C. Magnesium

D. Phosphorus

**Answer:**



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**69.** Critical elements are .....

A. N, P, K

B. Na, P and Ca

C. N, P, Mg

D. Mn, Fe and Cu

**Answer:**



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**70.** Which of the following is trace element ?

A. Mg

B. Nitrogen

C. Sulphur

D. Mn

**Answer:**



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**71. Which of the following is a macronutrient?**

A. Ca

B. Mn

C. Zn



D. Mo

**Answer:**



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**72.** Nitrogen is an important constituent of

.....

A. Carbohydrates

B. Sugars

C. Proteins

## D. Polyphosphates

**Answer:**



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**73.** Two climatic factors which affect growth are .....

- A. light and wind
- B. light and temperature
- C. rain and temperature

D. humidity and temperature

**Answer:**



**Watch Video Solution**

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A. auxin

B. Cytokinin

C. gibberellin

D. Ethylene

**Answer:**



**Watch Video Solution**

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D. trunk

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**76.** The deterioration process in plants, that naturally terminates their functional life is called.....

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C. plasmolysis

D. senesce

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**77.** Chlorosis results from the deficiency of  
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D. Phosphorus

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**80.** What is Vernalin?

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**86.** What is short day plant? Give any two examples?



[Watch Video Solution](#)

**87.** What are the indications for mineral deficiency in plants?



**Watch Video Solution**

**88.** What is the sequence of developmental process in plant cell?



**Watch Video Solution**

**89.** Describe different actions of gaseous natural plant hormone in plants.



**Watch Video Solution**

**90.** Write a note on Donnan equilibrium.



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**91.** Write a note on Biological nitrogen fixation by Rhizobia.



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**92.** Explain different phases of growth with the help of growth curve.



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**93.** Describe the role and deficiency symptoms of any one macronutrient and any one micronutrient.



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**94.** What is nitrogen cycle?



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