

QB365 Question Bank Software Study Materials

Bio - Botany - Plant Growth and Development 50 Important 1 Marks Questions With Answers (Book Back and Creative)

11th Standard

Biology

Total Marks : 50

Multiple Choice Question

50 x 1 = 50

- 1) Select the wrong statement from the following:
- (a) Formative phase of the cells retain the capability of cell division.
 (b) In elongation phase development of central vacuole takes place.
 (c) In maturation phase thickening and differentiation takes place. **(d) In maturation phase, the cells grow further.**
- 2) If the diameter of the pulley is 12 inches, length of pointer is 10 inches and distance travelled by pointer is 5 inches. Calculate the actual growth in length of plant.
- (a) 3 inches** (b) 6 inches (c) 12 inches (d) 30 inches
- 3) _____ is the powerful growth inhibitor
- (a) Ethanol (b) Cytokinins **(c) ABA** (d) Auxin
- 4) Select the correctly matched one
- | | |
|------------------------|-----------------------|
| A) Human urine | i) Auxin -B |
| B) Corn gram oil | ii) GA ₃ |
| C) Fungus | iii) Abscisic acid II |
| D) Herring fish sperm | iv) Kinitin |
| E) Unripe maize grains | v) Auxin A |
| F) Young cotton bolls | vi) Zeatin |
- (a)

A	B	C	D	E	F
iii	iv	v	vi	i	ii

(b)

A	B	C	D	E	F
v	i	ii	iv	vi	iii

 (c)

A	B	C	D	E	F
iii	v	vi	i	ii	iv

 (d)

A	B	C	D	E	F
ii	iii	v	vi	iv	i
- 5) Seed dormancy allows the plants to
- (a) overcome unfavourable climatic conditions** (b) develop healthy seeds (c) reduce viability
 (d) prevent deterioration of seeds
- 6) Which one of the following method are used to break the seed dormancy?
- (a) Scarification (b) Impaction (c) Stratification **(d) All the above**
- 7) Which hormone is maximum in coconut milk?
- (a) Gibberellins (b) Ethylene **(c) Cytokinin** (d) Auxin
- 8) The term synergistic action of hormones refers to _____
- (a) When two hormones act together but brings about opposite effects.
(b) When two hormones act together and contribute to the same function.
 (c) When one hormone affects more than one function. (d) When many hormones bring about opposite effects

9) Formation of interfascicular cambium and secondary phloem are called respectively.
(a) Differentiation and Redifferentiation. (b) Redifferentiation and Dedifferentiation.

(c) Dedifferentiation and Redifferentiation. (d) Dedifferentiation and Differentiation.

10) Avena curvature test is an Bio assay for

(a) Auxins (b) GA (c) Cytokinin (d) ethylene

11) The term kinetin was coined by

(a) Skoog (b) Haberlandt (c) Kurosawa (d) Lethon

12) Ripe bananas contain lot of

(a) ethylene (b) ABA (c) IAA (d) IPA

13) Match the following:

a. ethylene	(i) epinasty
b. cytokinin	(ii) closure of stomata
c. Gibberellin	(iii) dwarfism
d. ABA	(iv) cell division

(a) a-ii b-iii c-i d-iv **(b) a-i b-iv c-iii d-ii** (c) a-ii b-iv c-iii d-i (d) a-iii b-ii c-iv d-i

14) Level of increases during drought.

(a) Auxin (b) Ethylene **(c) ABA** (d) Cytokinin

15) The fastest growing plant is

(a) Pine **(b) Bamboo** (c) Eucalyptus (d) Redwood

16) The growth rate becomes zero in phase.

(a) Decelerating **(b) maturation** (c) exponential (d) lag

17) Identify a character which is not related to phytohormones.

(a) Phytohormones are inorganic in nature. (b) They influence physiological activities
(c) They are required in trace quantities (d) They are produced in tips of roots and stems

18) isolated Auxin A from human urine.

(a) Went **(b) Kogi** (c) Darwin (d) Skoog

19) _____ is an antiauxin compound.

(a) 2,4 - D (b) 2,4,5 -T **(c) TIBA** (d) IPA

20) The name Gibberellin was coined by

(a) Went (b) Kurosawa **(c) Yabuta** (d) Lethan

21) Biennials can be made to flower in the first season itself by treatment with _____

(a) Auxin (b) Kinetin **(c) GA** (d) ABA

22) The term cytokinin was coined by

(a) Skoog **(b) Lethan** (c) Haberlandt (d) Darwin

23) The bioassay for ABA was done with _____

(a) Maize (b) Avena (c) Neem **(d) Rice**

24) The term photoperiodism was coined by _____

(a) **Garner** (b) Skoog (c) Addicott (d) Butler

- 25) Wheat is a _____ Plant.
(a) Long day (b) Short day (c) Long short day (d) **Short long day**
- 26) It is not possible to isolate _____.
(a) IAA (b) **Florigen** (c) ABA (d) PAA
- 27) Dormancy of photoblastic seeds can be broken by exposing them to _____ light.
(a) Green (b) **Red** (c) Blue (d) Yellow
- 28) Treatment of seed coat to break dormancy is called _____.
(a) Stratification (b) **Scarification** (c) Impaction (d) Abscission
- 29) Indeterminate plants refers to _____ plants.
(a) long day (b) short day (c) intermediate day (d) **day neutral**
- 30) In geometric growth rate, the measure of the ability of the plant to produce new plant material, referred to as _____ index.
(a) Arithmetic (b) Relative (c) Absolute (d) **Efficiency**
- 31) Heterophylly in cotton & coriander is an example of _____.
(a) Differentiation (b) Dedifferentiation (c) **Plasticity** (d) Etiolation
- 32) Kogl et.al. found heteroauxin in the plant and chemically called it as _____.
(a) **IAA** (b) NAA (c) 2, 4-D (d) Ethylene
- 33) The amino acid tryptophan is the precursor of _____ and _____ is required for its synthesis.
(a) Zinc & IAA (b) IAA & ca (c) ca & IAA (d) **IAA & zinc**
- 34) Bakanae or foolish seedling disease was found by _____ and caused by a fungus Gibberella fujikuroi.
(a) Yabuta (b) Sumiki (c) **Kurosawa** (d) Smith
- 35) Yabuto & Sumiki isolated _____ in crystalline form.
(a) Auxin (b) Ethylene (c) Cytokinin (d) **Gibberellin**
- 36) Brain et.al., gave the name _____.
(a) **Gibberellic acid** (b) Absciscic acid (c) Cytokinins (d) Ethylene
- 37) _____ stimulates respiration and ripening in fruits.
(a) Cytokinins (b) **Ethylene** (c) Absciscic acid (d) Auxin
- 38) ABA is called as _____ hormone.
(a) Inhibition (b) Initiation (c) **Stress** (d) Turgidity
- 39) The physiological mechanisms in relation to flowering are controlled by _____ and _____.
(a) **Vernalization & photoperiodism** (b) Temperature & hormones (c) Light period & water
(d) Phytochrome & respiration
- 40) The term vernalization was first used by _____.
(a) Haberlandt (b) **T.D.Lysenko** (c) Went (d) Smith
- 41) _____ is a physiological process of shedding of organs like leaves, flowers, fruits & seeds from the parent plant body.

- (a) Senescence **(b) Abscission** (c) Phytaspases (d) Caspases
- 42) Auxins & cytokinins _____ abscission, while ABA & ethylene _____ it.
(a) Retard, induce (b) Induce, retard (c) Conserve, shedding (d) Dispersal, shedding
- 43) Which one of the following Plant hormone was first discovered?
(a) Auxin (b) Gibberellin (c) Cytokinin (d) Ethylene
- 44) Gibberella fujikuroi is a/an _____.
(a) alga **(b) fungus** (c) bacterium (d) virus
- 45) Which is not a requirement of vernalisation?
(a) Aerobic condition (b) Moisture (c) Low temperature **(d) Differentiated tissues**
- 46) Growth in plant height due to the activity of apical and intercalary meristems is called as _____.
(a) steady growth (b) stationary growth **(c) primary growth** (d) secondary growth
- 47) During seed germination its stored food is mobilized by _____.
(a) cytokinin (b) ABA **(c) gibberellin** (d) ethylene
- 48) Auxin can be bio assayed by _____.
(a) Lettuce hypocotyl elongation **(b) Avena coleoptile curvature** (c) Hydroponics (d) Potometer
- 49) Vernalisation stimulates flowering in _____.
(a) zamikand (b) turmeric **(c) carrot** (d) ginger
- 50) Which one of the following pairs, is not correctly matched?
(a) Abscisic acid - Stomatal closure **(b) Gibberellic acid - Leaf fall** (c) Cytokinin - Cell division
(d) IAA - Cell wall elongation