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## NET, IAS, State-SET (KSET, WBSET, MPSET, etc.), GATE, CUET, Olympiads etc.: Botany MCQs (Practice\_Test 77 of 104)

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1. The formation of gibberellins is necessary during the germination of barley seeds for the synthesis and secretion of hydrolase's. The gibberellins is formed in the
  - a. Endosperm
  - b. Aleuronic layer
  - c. Embryo
  - d. Scutellum
2. Kinetin was first isolated from
  - a. Immature corn seeds
  - b. DNA of coconut milk
  - c. DNA of herring sperm
  - d. DNA of monkey's liver
3. The induction of cell elongation by IAA is explained on the basis of
  - a. The acid growth hypothesis
  - b. Auxin-ethylene balance hypothesis
  - c. Sodium-potassium pump hypothesis
  - d. Osmotic pressure hypothesis
4. Match List I (Plant hormone) with List II (Typical physiological effect) and select the correct answer using the codes given below the lists:

List-I	List-II
a. Auxin b. Gibberellins c. Cytokine d. Ethylene	a. Apical dominance b. Cell division c. Fruit ripening d. Internodes elongation

Table Supporting: NET, IAS, State-SET (KSET, WBSET, MPSET, Etc.), GATE, CUET, Olympiads Etc. : Botany MCQs

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5. Rapid and irreversible cell elongation occurs commonly in plants but not in animals.

This difference is due to the

- a. Presence of chloroplasts and mitochondria
  - b. Absence of centrioles and glogi bodies
  - c. Absence of endoplasmic reticulum and presence of large vacuoles
  - d. Presence of large vacuoles and cell walls.
6. Glycol ate is converted into glyoxylate in the
- a. Glyoxomes
  - b. Microtubules
  - c. Peroximoses
  - d. Golgi bodies
7. The mitotic cycle is initiated by the activation of
- a. tubulin protein
  - b. kinetochore protein
  - c. MPF-protein kinase
  - d. RNA polymerase
8. If two loci are 10 map units apart, assuming that no multiple cross-over has taken place, what proportion of the cells undergoing meiosis will contain a single cross-over in the region between these two loci?
- a. 10%
  - b. 20%
  - c. 30%
  - d. 40%
9. In pseudo-allelism, genes
- a. Are functionally allelic and structurally non-allelic
  - b. Are structurally as well as functionally non-allelic
  - c. Are structurally allelic and functionally non-allelic
  - d. Are structurally as well as functionally non-allelic
10. When a growing structurally unsynchronized culture of a strain of E. Coli is exposed to a three-minute pulse of [3H] -thymidine, a great majority of individual bacteria become radioactive. This indicates that
- a. DNA synthesis occupies only a fraction of the time required for cell division

- b.* Transcription of DNA to form m-RNA is continuously taking place
- c.* Bacterial DNA replication is taking place in a semi conservative manner
- d.* DNA synthesis is taking place for almost the entire duration of the division cycle
11. The garden pea (*Pisum sativum*) has 14 chromosomes in each of its body cells. The numbers of linkage groups expected in the species is
- a.* less than 7
- b.* 7
- c.* between 7 and 14
- d.* 14
12. RNA polymerase-II binds to promoters during assembly of a transcription complex which contains
- a.* Once transcription factor
- b.* Several transcription factors some of which contain Fe-fingers
- c.* Several transcription factors some of which contain Zn-fingers
- d.* Nucleases
13. Consider the following statements regarding linkage of genes:
- a.* Two genes are said to be linked when they fail to show independent assortment.
- b.* The strength of the linkage is determined by the distance between the two genes in question.
- c.* The strength of the linkage is directly proportional to the distance between the two genes.
- o.* Of these statements
- a.* 1,2 and 3 are correct
- b.* 1 and 2 are correct
- c.* 2 and 3 are correct
- d.* 1 and 3 are correct
14. The activity of alpha-amylase in the endosperm of barley plants is induced by
- a.* Ethylene
- b.* Cytokine
- c.* IAA
- d.* Gibberellins
15. Match List I with List II and select the correct answer.

List-I	List-II
1. Ascobolus	1. Lignicolous

2. Erysiphe

3. Polyporous

4. Tilletia

2. Bunt disease

3. Ectoparasite

4. Coprophilous

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**D****4321 4312****ABC 3421 3412**

## Frequently Asked Questions (FAQs)

- **M. sc botany entrance questions and answer**

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*1 Answer*

We are currently providing only the questions and not the solutions.

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