

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - --Plant Physiology & Biotechnology

Course Code - BBT203

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Answer all the questions. Each question carry one mark.

9. 1. 0.6M Mannitol solution is an example of

Mark only one oval.

- Isotonic solution
- Hypotonic solution
- Hypertonic solution
- None of these

10. 2. Flavonoids is an example of

Mark only one oval.

- Plant growth regulator
- Plant primary metabolites
- Plant secondary metabolites
- None of these

11. 3. Agar agar, used in plant tissue culture is extracted from

Mark only one oval.

- Fungi
- Bacteria
- An algae
- Virus

12. 4. One chemical reagent in protoplast fusion is

Mark only one oval.

- Polyethylene glycol (PEG)
- Adenosine tri phosphate (ATP)
- Indole acetic acid (IAA)
- Cytokinin

13. 5. A technique of micropropagation is

Mark only one oval.

- Multiple root production
- Somatic embryogenesis
- Growth of microorganisms on culture medium
- Multiple shoot production and embryo rescue

14. 6. Which plant growth regulator helps in breaking the dormancy of plants?

Mark only one oval.

- Auxin
- Gibberellin
- Cytokinin
- Ethylene

15. 7. The membrane which allows the movement of only water molecules to pass through it and not the solute particles

Mark only one oval.

- Permeable membrane
- Semi permeable membrane
- Impermeable membrane
- Not permeable

16. 8. Which of the following hormone is found in gaseous form?

Mark only one oval.

- Auxin
- Gibberellin
- Cytokinin
- Ethylene

17. 9. Which plant hormone is helpful in making RNA and protein?

Mark only one oval.

- Auxin
- Gibberellin
- Cytokinin
- Ethylene

18. 10. Which of the following statement is incorrect?

Mark only one oval.

- Auxins are the most important plant hormone
- Auxins are produced at the region of elongation
- Indoleacetic Acid (IAA) is a principal auxin
- Auxins are also important in regulating the fall of leaves and fruits

19. 11. What is the name of the bacteria known as natural genetic engineer of plants?

Mark only one oval.

- Escherichia coli
- Agrobacterium tumefaciens
- Pseudomonas aeruginosa
- Aspergillus niger

20. 12. In growth room, humidifier serves as:

Mark only one oval.

- Contaminant reducer
- Humidity reducer
- Medium drying preventer
- Temperature controller

21. 13. The first transgenic crop was

Mark only one oval.

- Pea
- Tobacco
- Flax
- Cotton

22. 14. What is meant by 'Organ culture'?

Mark only one oval.

- Maintenance alive of a whole organ, after removal from the organism by partial immersion in a nutrient fluid
- Introduction of a new organ in an animal body with a view to create genetic mutation in the progenies of that animal
- Cultivation of organs in a laboratory through the synthesis of tissues
- The aspects of culture in community which are mainly dedicated by the need of a specified organ of the human body

23. 15. Subculturing is similar to propagation by cuttings because

Mark only one oval.

- it separates multiple microshoots and places them in a medium
- it uses scions to produce new microshoots
- they both use in vitro growing conditions
- All of these

24. 16. The ability of the component cells of callus to form a whole plant is known as

Mark only one oval.

- Redifferentiation
- Dedifferentiation
- Either Redifferentiation or Dedifferentiation
- None of these

25. 17. Bacteriophage lambda is a

Mark only one oval.

- virus
- Fungi
- Bacteria
- An algae

26. 18. AFLP is a

Mark only one oval.

- PCR based method
- method to detect polymorphism in the DNA throughout the genome
- method that detects the presence or absence of a fragment
- All of these

27. 19. Microinjection involves

Mark only one oval.

- injection of large amount of DNA
- injection of DNA into bigger cells
- injection with needle having diameter less than cell diameter
- All of these

28. 20. The right segment of octopine T-DNA (TR) is necessary for

Mark only one oval.

- enzymes for agropine biosynthesis
- tumour formation
- conjugative transfer
- All of these

29. 21. Liposomes mediated gene transfer in plants involves

Mark only one oval.

- plasmid DNA enclosed in a lipid bag
- fusion of liposomes with protoplast
- use of polyethylene glycol (PEG)
- All of these

30. 22. Flaccid means:

Mark only one oval.

- Guard cells with high water content
- Guard cells with low water content
- Stem cells with high water content
- Stem cells with low water content

31. 23. Osmosis is the diffusion of:

Mark only one oval.

- Water
- Solvent
- Solute
- Both 1 and 2

32. 24. Diffusion is the movement of:

Mark only one oval.

- Solute
- Solvent
- Solution
- Water

33. 25. Pressure against walls as result of water entering cell is known as

Mark only one oval.

- Cell pressure
- Wall pressure
- Turgor pressure
- All of these

34. 26. water potential is the summation of:

Mark only one oval.

- Water pressure+ osmotic potential
- Osmotic pressure + water pressure
- Osmotic pressure + pressure potential
- None of these

35. 27. Which of the following part of xylem can store food?

Mark only one oval.

- Xylem parenchyma
- Xylem vessel
- Tracheid
- Trachea

36. 28. Xylem or phloem fiber function as:

Mark only one oval.

- Supporting element
- Food storing area
- Both are true
- None of these

37. 29. Plant has storage organ in the form of:

Mark only one oval.

- Tuber
- Leaf
- Stem
- Bud

38. 30. Plant synthesizes food in:

Mark only one oval.

- Bark
- Leaf
- Root
- bud

39. 31. "Organic solutes flow from source, where water enters by osmosis, to sinks, where food is utilized and water exits" this statement known as

Mark only one oval.

- Transport hypothesis
- Capillary action
- Pressure-Flow Hypothesis
- None of these

40. 32. Which of the following part controls water movement into the vascular cylinder of the root?

Mark only one oval.

- Casparian strip
- Xylem vessel
- Phloem
- Trachea

41. 33. Which of the following is a micronutrient?

Mark only one oval.

- Carbon
- Nitrogen
- Iron
- Sulfur

42. 34. Deficiency of Nitrogen causes:

Mark only one oval.

- Dark leaves
- Succulence
- Reduced growth
- All of these

43. 35. Phosphorus deficiency occurs only in:

Mark only one oval.

- Stem
- Older leaves
- Root
- New leaves

44. 36. Murate of Potash is the fertilizer of:

Mark only one oval.

- Nitrogen
- Potassium
- Carbon
- Sulfur

45. 37. Leaf margin necrosis and browning occurs due to lack of:

Mark only one oval.

- Nitrogen
- Sulfur
- Potassium
- Carbon

46. 38. Blossom End Rot of Tomato occurs due to:

Mark only one oval.

- Calcium deficiency
- Sulfur deficiency
- Potassium deficiency
- All of these

47. 39. _____ is involved in carbohydrate metabolism.

Mark only one oval.

- Nitrogen
- Boron
- Zinc
- Copper

48. 40. _____ is involved in protein synthesis.

Mark only one oval.

- Cobalt
- Boron
- Zinc
- Copper

49. 41. ____ is required for nitrate reductase activity and vitamin synthesis.

Mark only one oval.

- Molybdenum
- Boron
- Zinc
- Manganese

50. 42. ____ is involved in photosynthetic oxygen revolution.

Mark only one oval.

- Molybdenum
- Copper
- Chlorine
- Manganese

51. 43. Colored flavinoids are:

Mark only one oval.

- Anthocyanin
- Tannin
- Lignin
- All of these

52. 44. Soybean contains phytoestrogens like _____

Mark only one oval.

- Flavonols
- Isoflavones
- Flavones
- None of these

53. 45. Growth curve is _____ shaped curve.

Mark only one oval.

- S
- L
- J
- U

54. 46. Ethylene is a _____

Mark only one oval.

- Growth inhibitor
- Growth promoter
- Growth hormone
- Liquid hormone

55. 47. Which of the following hormone is responsible for apical dominance?

Mark only one oval.

- GA3
- BAP
- IAA
- Ethylene

56. 48. Which of the following hormone is responsible for fruit ripening?

Mark only one oval.

- GA3
- BAP
- IAA
- Ethylene

57. 49. Radicle is:

Mark only one oval.

- Embryonic shoot
- Embryonic root
- Cotyledon
- Hypocotyl

58. 50. Which one of the following induces dormancy in seeds?

Mark only one oval.

ABA

GA3

IAA

BAP

59. 51. Who proposed The Hormonal theory of vernalization?

Mark only one oval.

Bose

Melcher

Dixon

Joly

60. 52. Which one of the following is a floral hormone?

Mark only one oval.

IAA

BAP

Vernalin

Ethylene

61. 53. Mechanical method of protoplast isolation is done for which of the following tissue(s)?

Mark only one oval.

- Meristamatic tissue
- Vacuolated tissue
- Dry tissue
- Deplasmolysed tissue

62. 54. The main disadvantage of breeding is:

Mark only one oval.

- It's very difficult to execute
- It's time taking process
- It's a hard process to understand
- None of these

63. 55. Plant breeding started for:

Mark only one oval.

- Domestication of crops
- Domestication of wild plants
- Domestication of weeds
- Domestication of animals

64. 56. Who had discovered the process crossing can be used as a method to obtain new plant?

Mark only one oval.

- Mendel
- Wallace
- Camerarius
- Francis crick

65. 57. Plant transformation can be done by:

Mark only one oval.

- Micro injection
- Somatic hybridization
- Agrobacterium tumefaciens
- All of these

66. 58. A. rhizogenes causes which of the following disease in plants?

Mark only one oval.

- Hairy root
- Crown gall
- Both of them
- None of these

67. 59. DNA can be delivered in to nucleus directly, by:

Mark only one oval.

- Gene gun
- Microinjection
- Both are true
- None of these

68. 60. DNA is coated with _____ in gene gun technique.

Mark only one oval.

- Silver nano particle
- Gold nanoparticle
- Diamond nanoparticle
- All of these

69. 61. Which one of the following metal is used as microcarrier in gene gun?

Mark only one oval.

- Gold
- Tungsten
- Both are true
- None of these

70. 62. DNA delivery through Liposome is called:

Mark only one oval.

- Lipofection
- Transfection
- Transformation
- Lisofection

71. 63. For DNA delivery with lipid, the nature of lipid should be:

Mark only one oval.

- Cationic
- Anionic
- Neutral
- All of these

72. 64. Liposome is useful, as:

Mark only one oval.

- It protects DNA
- It uses negative charge
- It is hard
- It is soft

73. 65. PEG is used for:

Mark only one oval.

- Protoplast isolation
- Protoplast fusion
- Protoplast degradation
- All of these

74. 66. Organs regenerated on callus for the first time in:

Mark only one oval.

- 1960
- 1965
- 1955
- 1950

75. 67. Plants regenerated from protoplasts for the first time by:

Mark only one oval.

- Skoog
- Takebe
- Cocking
- None of these

76. 68. Plant cells are:

Mark only one oval.

- Multipotent
- Pluripotent
- Totipotent
- Unipotent

77. 69. During hardening, regenerated plants are 1st transferred into:

Mark only one oval.

- Green house
- Field
- Culture room
- Any one can be possible

78. 70. High auxin to low cytokinin ratio is essential for:

Mark only one oval.

- Shoot formation
- Root formation
- Callus formation
- None of these

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