

ICAR ARS NET Previous Questions on Agricultural Biotechnology

41 Pure line theory was given by

- a) Bateson
- b) Johansson
- c) Mendel
- d) Morgan

42. Which of the following enzyme is used for making cDNA

- a) DNA ligase
- b) Taq polymerase
- c) Restriction enzyme
- d) Reverse transcriptase

43. The chemical used as an inducer of the vir operons is

- a) Kanamycin
- b) Hygromycin
- c) Pencillin
- d) Acetosyringone

44. "9+2" describes the basic structure of which of the following one

- a) Chloroplast
- b) Flagellum
- c) Mitochondria
- d) Lysosome

45. The organelle that functions in the breakdown of cells and tissues is the

- a) Centrosomes
- b) Centriole
- c) Lysosome
- d) Liposome

46. An example for naturally occurring Auxin

- a) IAA
- b) ABA
- c) BAP
- d) 2, 4-D

47. A general method to confirm expression of transgene at translation level is

- a) western blotting
- b) northern blotting
- c) eastern blotting
- d) southern blotting

48. The browning of culture medium induced by some explants can be prevented by the addition of

- a) GA
- b) 2-4-D
- c) IBA
- d) PVP (polyvinyl pyrrolidone)

49. Which of the following is not used as a cryoprotectant

- a) glycerol
- b) DMSO
- c) polyclar
- d) PEG

50. Anther culture provide a method for the production of

- a) polyploidy
- b) heterozygous line
- c) apomictic line
- d) homozygous line

51. The first stable product of photosynthesis

- a) glucose
- b) DHAP

c) RUBP

d) 3PGA

52. Oxidation of water during photosynthesis involves

a) PSI

b) PS II

c) both

d) none of the above

53. Which one of the following chemical causes frame shift mutation

a) 2-amino purine

b) hydroxylamine

c) 2 bromo uracil

d) acridine orange

54. The restriction enzyme useful to the molecular biologist belongs to

a) Type I

b) Type II

c) Type III

d) both a and b.

55. A good molecular marker must be

a) polymorphic

b) heritable

c) both a and b

d) none

56. Shotgun approach is used in

a) gene mapping

b) DNA sequencing

c) gene transformation

d) genomic library

57. The length of Okazaki fragments in E.coli are about

- a) 100-200 nucleotides
- b) 500-1000 nucleotides
- c) 1000-2000 nucleotides
- d) 10000-100000 nucleotides

58. The sigma factor of RNA polymerase in E.coli involved

- a) RNA synthesis
- b) promoter binding
- c) transcription initiation
- d) binding with template DNA

59. The Casparian stripes is present in

- a) epidermis
- b) endodermis
- c) cortex
- d) root hair

60. Flavr Savr is a variety of

- a) potato
- b) tomato
- c) pomato
- d) avocado

Answers: 41-b, 42-d, 43-d, 44-b, 45-c, 46-a, 47-a, 48-d, 49-d, 50-d, 51-d, 52-b, 53-d, 54-b, 55-c, 56-d, 57-c, 58-b, 59-b, 60-b.