

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

Course Name - --Animal Biotechnology

Course Code - GEBT401

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Answer all the questions. Each question carry one mark.

9. 1. Cells from kidney tissues cannot survive independently, it requires other surface for attachment and survival.

Mark only one oval.

- anchorage dependent
- anchorage independent
- Suspension dependent
- Suspension independent

10. 2. What is a cell line?

Mark only one oval.

- Multilayer culture
- Transformed cells
- Multiple growth of cells
- Sub culturing of primary culture

11. 3. Which of the following is the characteristics of a normal cell?

Mark only one oval.

- Anchorage independent
- Continuous cell lines
- Dependent on external growth factor
- No contact inhibition

12. 4. Which of the following is NOT the part of growth medium for animal culture?

Mark only one oval.

- Starch
- Serum
- Carbon
- Inorganic salts

13. 5. The foundation for the development of cell culture technique was laid by

Mark only one oval.

- Roux
- Arnold
- Harrison
- Ross

14. 6. The limited replicative capacity of human cells in culture is called

Mark only one oval.

- Brownian effect
- Contact inhibition
- Adherent cells
- Hayflick effect

15. 7. Which of the following is HGPRT+ and survives in HAT medium

Mark only one oval.

- B cells
- Myeloma cells
- Hybrid cells
- Both B cells & Hybrid cells

16. 8. Cells used in feeder layer

Mark only one oval.

- Should have ability to divide
- Have ability to metabolize
- These properties are obtained by exposing cells to irradiation
- All

17. 9. Which of the following is true regarding animal cell culture technique

Mark only one oval.

- Lactic acid is source of carbon
- Cells have high requirement of L-glutamine
- Cholin is necessary for cell adhesion and cytoskeleton
- all

18. 10. Optimum pH required for the growth of mammalian cells is

Mark only one oval.

- 5.3-7.0
- 6.5-7.0
- 7.2-7.4
- 8.1-8.9

19. 11. For culture of avian cells the optimum temperature requirement is

Mark only one oval.

37°C

40°C

42°C

None

20. 12. Which cell line is used for production of recombinant sex hormones

Mark only one oval.

BHK cell line

Vero cell line

Hela cell line

CHO cell line

21. 13. Which of the following is most commonly used cell fusing agent

Mark only one oval.

PEG

NaNO₃

Sendai virus

Polyvinyl alcohol

22. 14. Which of the following is easy and rapid method to interpret viability of cells in culture system

Mark only one oval.

- Trypan blue dye exclusion
- Neutral red assay
- Fluorescein dye assay
- all

23. 15. Animal biotechnology involves

Mark only one oval.

- production of valuable products in animals using rDNA technology
- rapid multiplication of animals of desired genotypes
- alteration of genes to make it more desirable
- none

24. 16. Animal cell cultures are used widely for the production of

Mark only one oval.

- Counting microseconds
- Counting number of statements
- Counting number of key operations
- Counting kilobyte of algorithm

25. 17. Which of the following are commonly produced in animal cell cultures

Mark only one oval.

- Interferon
- mab
- vaccines
- all of these

26. 18. Recombinant proteins are

Mark only one oval.

- proteins synthesized in animals
- proteins synthesized by transgene in host cell by rDNA technology
- proteins synthesised in cells that are produced by protoplast fusion
- proteins synthesized in mutated cell lines

27. 19. The virus commonly used to infect cell cultures for the production of interferon is

Mark only one oval.

- Sendai virus
- Polio virus
- Corona virus
- Small pox virus

28. 20. The technique used in animal biotechnology for the rapid multiplication and production of animals with a desirable genotype is

Mark only one oval.

- protoplast fusion and embryo transfer
- hybrid selection and embryo transfer
- In vitro fertilization and embryo transfer
- all

29. 21. The first successfully cloned animal was

Mark only one oval.

- Monkey
- Gibbon
- Sheep
- Rabbit

30. 22. Which of the following is a 'defined media'?

Mark only one oval.

- Synthetic media
- Crude media
- Simple media
- Complex media

31. 23. Which of the following virus is considered as 'natural genetic engineer'?

Mark only one oval.

- Retrovirus
- Agrobacterium
- Baillus subtilis
- E.coli

32. 24. Introduction of DNA into cells by exposing to high voltage electric pulse is

Mark only one oval.

- lectrofusion
- Elctrofision
- Electroporation
- Electrolysis

33. 25. DNA solution injected directly into the cell using micromanipulators is called

Mark only one oval.

- macroinjection
- micromanipulator mediated DNA delivery
- microfektion
- microinjection

34. 26. Which of these established cell lines originate from a mouse embryo?

Mark only one oval.

3T3

BHK

HeLa

BTK

35. 27. The nucleous of mature unfertilized ovum may be removed by

Mark only one oval.

irradiation

surgery

both irradiation and surgery

neutralization and homogenization

36. 28. The technique, mainly used for the diagnosing birth defects in the fetus by means of needle, is called

Mark only one oval.

amniocentesis

ectogenesis

transplantation

all of the above

37. 29. DNA is microinfected into the fertilized egg

Mark only one oval.

- after the fusion of male and female nuclei
- before the fusion of male and female nuclei
- at the time of fusion of male and female nuclei
- any time, it can be infected

38. 30. The number of follicles at any particular stage is governed by

Mark only one oval.

- the rate of entry of dormant follicles
- the rate of growth of follicles
- the rate of loss of follicles
- all of the above

39. 31. Enucleation of the cells can be achieved by treating the cells with

Mark only one oval.

- polyethylene glycol
- cytochalasin B
- both polyethylene glycol and cytochalasin B
- alcohol

40. 32. Which of the following is/are the method of transfection for making transgenic animals?

Mark only one oval.

- Transfer of whole nuclei
- Transfer of whole individual chromosomes or fragment
- Transfer of DNA
- All of the above

41. 33. DNA microinjection into the egg has been used to produce which of the following transgenic animals?

Mark only one oval.

- Mice
- Chicken
- Pigs
- All

42. 34. In transgenic fish, the genes are introduced by

Mark only one oval.

- microinjection in fish
- viruses
- transfer of whole nuclei
- all of these

43. 35. Production of transgenic animals require transfections of

Mark only one oval.

- eggs or embryos
- stem cells
- red blood cells
- all

44. 36. Which protein has been produced generating a transgenic sheep that is used for replacement therapy for individuals at risk from emphysema?

Mark only one oval.

- Plasminogen activator (tPA)
- α -anti trypsin (AAT)
- Casein
- Amyloid precursor proteins

45. 37. Transfection refers to which of the following?

Mark only one oval.

- Synthesis of mRNA from DNA template
- Introduction of foreign gene in to a cell
- Synthesis of protein based on mRNA sequence
- The process by which a cell become malignant

46. 38. Sickle cell anaemia is a type of disease linked with

Mark only one oval.

- autosomal
- Sex chromosome recessive
- Sex linked dominant
- None

47. 39. Which process is used to insert normal genes into human cells to correct disorders?

Mark only one oval.

- Gene therapy
- Live vector vaccines
- Molecular cloning
- Stem cell therapy

48. 40. Gene therapy targeting the germ-line is..

Mark only one oval.

- Heritable
- Not heritable
- Not heritable
- Unrelated to heritability

49. 41. Which part of the human body are bone marrow cells removed from to perform ex vivo SCID gene therapy?

Mark only one oval.

- Lung
- Skull
- Hip bone
- Spinal cord

50. 42. When was the first gene therapy patient treated?

Mark only one oval.

- 1988
- 1990
- 1993
- 1999

51. 43. In which country was the first commercial gene therapy product, Gendicine, registered for the treatment of head and neck carcinoma?

Mark only one oval.

- China
- USA
- United Kingdom
- Germany

52. 44. Einstein's clone would have Einstein's genes but would not

Mark only one oval.

- Be alive
- Be as smart as Einstein
- Be Einstein
- Be a true clone

53. 45. Which of the following is correct related to transgene?

Mark only one oval.

- Phenotype remains unaltered
- Phenotype changes
- Produced within an organism
- Genotype changes

54. 46. Which of the following is true for heterologous proteins?

Mark only one oval.

- It occurs naturally in the cell
- It express the protein
- It does not express the protein
- It makes protein

55. 47. What is the purpose of gel electrophoresis?

Mark only one oval.

- helps cut DNA
- count the genes in DNA
- separates DNA based on size
- allows for an exact replicated organism

56. 48. During gel electrophoresis, DNA moves from the ___ end to the ___ end.

Mark only one oval.

- positive, negative
- negative, positive
- Does not Move
- None

57. 49. What charge is DNA?

Mark only one oval.

- positive
- negative
- neutral
- no charge

58. 50. How many cycles of PCR are normally used?

Mark only one oval.

- 20-35
- 6
- 45
- 100

59. 51. When performing a western blot, what is the purpose of adding a secondary antibody?

Mark only one oval.

- Separate the sample from other proteins
- Allow for detection of the protein sample
- Ensure that the primary antibody binds properly to the sample
- Block any interfering noise coming from the membrane

60. 52. A researcher is working with a protein that contains four subunits of differing molecular weights. If the researcher performs SDS-PAGE, how many distinct bands should he see on the gel?

Mark only one oval.

- 2
- 3
- 4
- 1

61. 53. Which of the following techniques would be most useful to study gene expression?

Mark only one oval.

- Northern blot
- Western blot
- Southern blot
- Eastern blot

62. 54. What is semen for use in artificial insemination put in?

Mark only one oval.

- syringes
- your hand
- cups
- straws

63. 55. What is in the semen tank to preserve the semen?

Mark only one oval.

- salt
- hydrogen
- xenon
- liquid nitrogen

64. 56. First mammal produced by IVF was

Mark only one oval.

- Calf
- Mouse
- Rabbit
- Monkey

65. 57. Most ideal method of oocyte collection from ovaries is

Mark only one oval.

- Slicing of ovaries
- Follicle aspiration
- Follicle puncturing
- None of these

66. 58. In cloning, donor somatic cells should be in which stage of cell cycle

Mark only one oval.

- G1
- G2
- M
- S

67. 59. Identify the kind of interactions that are typically involved in binding a drug to the binding site of a protein.

Mark only one oval.

- predominantly van der Waals interactions
- predominantly ionic bonds
- predominantly hydrogen bonds
- a combination of all of the above

68. 60. Different protein subunits in a multiprotein complex are...

Mark only one oval.

- tertiary structure
- primary structure
- secondary structure
- quaternary structure

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