

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

Course Name - –Animal Biotechnology

Course Code - BBT204A

\* You can submit the form ONLY ONCE.

\* Fill the following information for further process.

\* Required

1. Email \*

---

2. Name of the Student \*

---

3. Enter Full Student Code \*

---

4. Enter Roll No \*

---

5. Enter Registration No \*

---

6. Enter Course Code \*

---

7. Enter Course Name \*

---

8. \*

Mark only one oval.

- Diploma in Pharmacy
- Bachelor of Pharmacy
- B.TECH.(CSE)
- B.TECH.(ECE)
- BCA
- B.SC.(CS)
- B.SC.(BT)
- B.SC.(ANCS)
- B.SC.(HN)
- B.Sc.(MM)
- B.A.(MW)
- BBA
- [B.COM](#)
- B.A.(JMC)
- BBA(HM)
- BBA(LLB)
- B.OPTOMETRY
- B.SC.(MB)
- B.SC.(MLT)
- B.SC.(MRIT)
- B.SC.(PA)
- LLB
- [B.SC\(IT\)-AI](#)
- B.SC.(MSJ)
- Bachelor of Physiotherapy
- B.SC.(AM)
- Dip.CSE
- Dip.ECE
- [DIP.EE](#)
- DIP.CE

- [DIP.ME](#)
- PGDHM
- MBA
- M.SC.(BT)
- M.TECH(CSE)
- LLM
- M.A.(JMC)
- M.A.(ENG)
- M.SC.(MATH)
- M.SC.(MB)
- MCA
- M.SC.(MSJ)
- M.SC.(AM)
- M.SC.CS)
- M.SC.(ANCS)
- M.SC.(MM)
- B.A.(Eng)

Answer all the questions. Each question carry one mark.

9. 1. The growth of animal cells in vitro in a suitable culture medium is called\_\_\_\_\_

*Mark only one oval.*

- Gene expression
- Transgenesis
- Plant tissue culture
- Animal cell culture

10. 2. 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

11. 3. Name the type of culture which is prepared by inoculating directly from the tissue of an organism to culture media?

*Mark only one oval.*

- Secondary cell culture
- Primary cell culture
- Cell lines
- Transformed cell culture

12. 4. What is a cell line?

*Mark only one oval.*

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

13. 5. Name the organism on which first cell line was observed

*Mark only one oval.*

- E.Coli
- Sheep
- Mouse
- Monkey

14. 6. 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

15. 7. Name the cell line of the human embryonic lung?

*Mark only one oval.*

- HeLa
- WISH
- L
- MRC-5

16. 8. Which of the following is NOT the part of growth medium for animal culture?

*Mark only one oval.*

- Starch
- Serum
- Carbon
- Inorganic salts

17. 9. Which of the following is NOT the major function of the serum?

*Mark only one oval.*

- Promotion of tuber and bulb formation
- Enhance cell attachment
- Provide transport proteins
- Stimulate cell growth

18. 10. The foundation for the development of cell culture technique was laid by

*Mark only one oval.*

- Roux
- Arnold
- Harrison
- Ross

19. 11. Who is regarded as the father of tissue culture

*Mark only one oval.*

- Roux
- Arnold
- Harrison
- Ross

20. 12. The limited replicative capacity of human cells in culture is called

*Mark only one oval.*

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

21. 13. HAT medium used for the selection of fused hybrid cells in hybridoma culture was introduced by

*Mark only one oval.*

- Littlefield and Miller
- Kohler and Milstein
- both true
- none



22. 14. Which of the following is HGPRT+ and survives in HAT medium

*Mark only one oval.*

- B cells
- Myeloma cells
- Hybrid cells
- Both a and c

23. 15. 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

24. 16. Which of the following is the structural fibre in cell culture system

*Mark only one oval.*

- Collagen
- Elastin
- Both a and b
- Fibronectin

25. 17. 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

26. 18. For culture of avian cells the optimum temperature requirement is

*Mark only one oval.*

37°C

40°C

42°C

None

27. 19. Which of the following is the oldest cell line

*Mark only one oval.*

HeLa cells Lines

Vero cell line

CHO cell line

BHK cell line

28. 20. The ratio of CO<sub>2</sub> : O<sub>2</sub> used in cell culture system should be

*Mark only one oval.*

- 0.0451388888888889
- 0.0506944444444444
- 0.0548611111111111
- 0.0590277777777778

29. 21. Which of the following virus is used for cell fusion

*Mark only one oval.*

- Sendai virus
- Herpes virus
- Myxovirus
- All

30. 22. Vero cell line is obtained from Kidney cells of

*Mark only one oval.*

- Chinese hamster
- African green monkey
- Calf
- Swine

31. 23. Animal cell cultures are used widely for the production of

*Mark only one oval.*

- insulin
- somatostatin
- mabs
- thyroxine

32. 24. The first vaccine developed from animal cell culture was

*Mark only one oval.*

- Hepatitis B vaccine
- Influenza vaccine
- Small pox vaccine
- Polio vaccine

33. 25. The cell line used for the production of polio vaccine was

*Mark only one oval.*

- Primate kidney cell line
- CHO cell line
- Dog kidney cell line
- mouse fibroblast cell line

34. 26. Interferons are

*Mark only one oval.*

- anti bacterial proteins
- anti-viral proteins
- bacteriostatic proteins
- all

35. 27. 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

36. 28. 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

37. 29. The first successfully cloned animal was

*Mark only one oval.*

- Monkey
- Gibbon
- Sheep
- Rabbit

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

*Mark only one oval.*

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

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

*Mark only one oval.*

- Retrovirus
- Agrobacterium
- Baillus subtilis
- E.coli

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

*Mark only one oval.*

- lectrofusion
- Elctrofision
- Electroporation
- Electrolysis

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

*Mark only one oval.*

- macroinjection
- micromanipulator mediated DNA delivery
- microfection
- microinjection

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

*Mark only one oval.*

- 3T3
- BHK
- HeLa
- BTK

43. 35. Karyoplast is

*Mark only one oval.*

- cells devoid of cell wall
- nuclei
- nuclei with only some residual plasma membrane
- cell with nucleus

44. 36. 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

45. 37. In which year, Dolly the first mammalian clone was born?

*Mark only one oval.*

- 1995
- 1997
- 1996
- 1998



46. 38. 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

47. 39. Anthrax is caused by

*Mark only one oval.*

- Clostridium
- Bacillus
- Mycoplasma
- None

48. 40. 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

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

*Mark only one oval.*

- Mice
- Chicken
- Pigs
- All

50. 42. Which of the following statements best describes a clone?

*Mark only one oval.*

- An artificial life form
- An offspring where all of the genetic material in every cell is identical to that of both parents
- An offspring where all of the genetic material in every cell is identical to that of one of its parents
- A type of sheep

51. 43. Production of transgenic animals require transfections of

*Mark only one oval.*

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

52. 44. Which of the following gene have been introduced into the transgenic fish?

*Mark only one oval.*

- Human or rat gene for growth hormone
- Chicken gene for delta crystalline protein
- E. coli gene for  $\beta$ -galactosidase
- all

53. 45. 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

54. 46. 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

55. 47. HIV

*Mark only one oval.*

- Bacteria
- Plastic capsules
- Powder balls
- Viruses

56. 48. 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

57. 49. Which of the following is an example of a condition caused by a mutation in a single gene?

*Mark only one oval.*

- Colon cancer
- Heart disease
- AIDS
- Cystic fibrosis

58. 50. 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

59. 51. Among animals and humans, clones appear naturally in the form of

*Mark only one oval.*

- Siblings
- Identical twins
- Older siblings
- Germ lines

60. 52. Which of the following is correct related to transgene?

*Mark only one oval.*

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

61. 53. Which of the following virus is not used in gene therapy?

*Mark only one oval.*

- Papillomavirus
- Retrovirus
- Adenovirus
- Herpes simplex virus

62. 54. Which best describes the process of gene therapy?

*Mark only one oval.*

- Functional genes are inserted into the reproductive cells in order to fix ailments in the next generation.
- The chromosome with the faulty gene is replaced by a fully functional, working copy.
- Viral vectors are used to replace nonfunctional genes with working copies.
- None

63. 55. 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

64. 56. What applications can gel electrophoresis be used for?

*Mark only one oval.*

- Parental Testing
- Criminal Investigations
- Sequence Endangered Species DNA
- All of the above

65. 57. How many cycles of PCR are normally used?

*Mark only one oval.*

- 20-35
- 6
- 45
- 100

66. 58. After proteins are run on an SDS-PAGE gel, a transfer is executed. What is the purpose of the transfer in Western blot protocol?

*Mark only one oval.*

- Denature the proteins in the sample
- Visualize the proteins run on the gel
- Move proteins from the SDS-PAGE gel to a nitrocellulose membrane
- Probe the gel with an antibody to detect a protein of interest

67. 59. 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

68. 60. Which of the following are the basic objectives of artificial insemination

*Mark only one oval.*

- Genetic improvement of livestock.
- Used as a method to control disease
- Used as a method to control disease
- It can decrease the breeding expense

69. 61. What is in the semen tank to preserve the semen?

*Mark only one oval.*

- salt
- hydrogen
- xenon
- liquid nitrogen



70. 62. First mammal produced by IVF was

*Mark only one oval.*

- Calf
- Mouse
- Rabbit
- Monkey

71. 63. Which technique holds promise in future for conservation of endangered species

*Mark only one oval.*

- Intraspecies cloning techniques
- Interspecies cloning techniques
- IVF
- Both a and b

72. 64. Which of the following is the first transgenic animal

*Mark only one oval.*

- Goat
- Rabbit
- Monkey
- Mice

73. 65. Which of the following statements best describes a lead compound?

*Mark only one oval.*

- A compound that contains the element lead
- A compound from the research laboratory that is chosen to go forward for preclinical and clinical trials
- A molecule that shows some activity or property of interest and serves as the starting point for the development of a drug.
- The first compound of a structural class of compounds to reach the market.

74. 66. Which of the following terms is used to describe a drug that has the same effect on a receptor as the endogenous chemical messenger?

*Mark only one oval.*

- agonist
- antagonist
- partial agonist
- inverse agonist

75. 67. Different protein subunits in a multiprotein complex are...

*Mark only one oval.*

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

76. 68. The process by which DNA is copied to produce two daughter DNA molecules is

*Mark only one oval.*

- translation
- transcription
- reproduction
- replication

77. 69. Drugs was not isolated from a natural source is...

*Mark only one oval.*

- isoniazid
- artemisinin
- quinine
- morphine

78. 70. Which of the following microorganism has been associated with the appearance of ulcers?

*Mark only one oval.*

- Enterococcus faecalis
- Helicobacter pylori
- Eschericia coli
- Staphylococcus aureus

---

This content is neither created nor endorsed by Google.

Google Forms

