

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

Course Name - --BIOETHICS & BIOSAFETY

Course Code - GEBT201

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- 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. Simple sequence repeats are

*Mark only one oval.*

- 1-6 bp long sequences distributed along the chromosome
- individual specific in number and position.
- also called as micro satellites
- All of these

10. 2. Radioactive probe is not required in

*Mark only one oval.*

- RAPD
- AFLP
- RFLP
- All of these

11. 3. Which of the following require maximum safety?

*Mark only one oval.*

- Non pathogenic bacteria
- Foreign microorganism
- Self cloning
- E.coli transformation

12. 4. Molecular marker Include

*Mark only one oval.*

- RFLP
- AFLP
- SSR
- All of these

13. 5. Which regulatory body responsible for implementation of biosafety guidelines for recombinant DNA technology?

*Mark only one oval.*

- RDAC
- GEAC
- DST
- ICAR

14. 6. Which of the following dye is used for observing DNA in agarose gel?

*Mark only one oval.*

- Ethyidium bromide
- acetocarmine
- Methylene blue
- None of these

15. 7. The following cannot be exploited by assigning or by licensing the rights to others

*Mark only one oval.*

- Patent
- Design
- trade mark
- None of these

16. 8. The amount of Large scale production of bio-molecules from genetically engineered microorganisms is

*Mark only one oval.*

- 10 lts
- 15lts
- 5 lts
- 20 lts

17. 9. Which one of the following marker is used for selection of transgenic plants:

*Mark only one oval.*

- Drug resistance gene.
- RAPD marker.
- Antibiotic resistance gene
- vitamin resistance gene

18. 10. Molecular markers are used to construct

*Mark only one oval.*

- chromosome maps
- cytogenetic maps
- physical maps
- All of these

19. 11. Radioactive waste are:

*Mark only one oval.*

- Nuclear war materials
- Rigid container
- Test explosions
- Both (Nuclear war materials) and (Test explosions)

20. 12. Which one of the marker requires blotting?

*Mark only one oval.*

- RAPD
- SSR
- RFLP
- NONE OF THESE

21. 13. Intellectual Property Rights (IPR) is a process which protects the use of information and ideas that are of

*Mark only one oval.*

- Ethical value
- Commercial value
- Social value
- Moral value

22. 14. Name the technique that follow repetitive sequences.

*Mark only one oval.*

- AFLP
- RAPD
- AFLD
- SSR

23. 15. Mastermix of PCR contain

*Mark only one oval.*

- DNA, Forward and reverse Primer, Mg+, Buffer, Taqpolymerase.
- DNA, Forward Primer, Mg+, Buffer, Taqpolymerase
- DNA, Mg+, Buffer, Taqpolymerase
- DNA, Primer, Mg+, Buffer, Taqpolymerase

24. 16. Handling of Recombinant products requires

*Mark only one oval.*

- Characteristics of donor and recipient organism
- Characteristic of the modified organism
- expression and properties of the gene product
- All of these

25. 17. The most reproducible type marker is

*Mark only one oval.*

- RAPD
- RFLP
- SSR
- None of these

26. 18. The total duration of patent is ..... years

*Mark only one oval.*

- 10
- 20
- 30
- 40

27. 19. Paris Convention for the Protection of Industrial Property, initially signed in

*Mark only one oval.*

- 1983
- 1883
- 1988
- 1999

28. 20. The duration of secret patent is

*Mark only one oval.*

- 10 years
- 20 years
- 5 years
- Unlimited

29. 21. Which regulatory body helps and supports British businesses with regard to trade with India:

*Mark only one oval.*

- The UK India Business Council (UKIBC)
- British High commission
- British Academy of Commerce
- None of these

30. 22. Mumps virus can be studied in

*Mark only one oval.*

- BSL I laboratory
- BSL II laboratory
- BSL III laboratory
- BSL IV laboratory

31. 23. Full form of IPR is

*Mark only one oval.*

- Intellectual Prosecution Rights
- International property rights
- Intellectual Property Rights
- All of these

32. 24. Main features of TRIPs agreement are

*Mark only one oval.*

- Standards
- Enforcement
- Dispute settlement
- All of these

33. 25. Salmonella can be studied in

*Mark only one oval.*

- BSL I laboratory
- BSL II laboratory
- BSL III laboratory
- BSL IV laboratory

34. 26. Full form of RDAC is

*Mark only one oval.*

- Recombinant DNA advisory committee
- RNA Degradation advisory committee
- Recombinant DNA association for Cloning
- None of these

35. 27. Example of tangible property include

*Mark only one oval.*

- Patent
- Trademark
- Franchise
- Equipment

36. 28. Number of member states under WIPO are

*Mark only one oval.*

- 180
- 156
- 192
- None of these

37. 29. Example of intangible property include

*Mark only one oval.*

- Copyrights
- Land
- Vehicles
- Furniture

38. 30. DNA including those from chloroplasts and mitochondria are included in

*Mark only one oval.*

- Category I.
- category II
- Category III
- category IV.

39. 31. The amount of Large scale production of bio-molecules from genetically engineered microorganisms is.

*Mark only one oval.*

- 10 lts
- 15lts
- 5 lts
- 20 lts

40. 32. Which one of the following does not included under Category IV types of rDNA activities?

*Mark only one oval.*

- Self cloning
- Toxin gene clonings
- Cloning of genes for vaccine production: e.g. Rinderpest and leprosy antigens
- Genes coding for antibiotic resistance into pathogenic organisms.

41. 33. rDNA is generally associated with

*Mark only one oval.*

- Pathogenic bacteria
- Non pathogenic bacteria
- small scale production of recombinant product
- Continuous release of organisms, plants, animals in to environment.

42. 34. Physical Containment (PC) mainly include

*Mark only one oval.*

- Host
- bacteria
- Plasmid.
- Preventing the exposure of the researcher and the environment to the harmful agents

43. 35. Containment is :

*Mark only one oval.*

- Safe methods for managing infectious agents.
- Release of pathogen inside the laboratory.
- Release of pathogen in to environment.
- Managing of biological hazard.

44. 36. Open flames are not allowed in a biological safety cabinet because

*Mark only one oval.*

- They disrupt airflow patterns that protect user and product
- They can not damage HEPA filters.
- They do not pose a fire hazard.
- None of these

45. 37. In agarose gel DNA fragments moves according to their

*Mark only one oval.*

- Size
- charge
- charge and size
- all

46. 38. The extension temperature of PCR is --- degree centigrade.

*Mark only one oval.*

72

50-60

95

20

47. 39. Paternity test is best determined by

*Mark only one oval.*

RAPD

AFLP

SSR.

non repetitive DNA.

48. 40. Which one of the following marker is of co-dominant type?

*Mark only one oval.*

RAPD.

RFLP.

all.

i and ii

49. 41. Examples of hazardous waste are

*Mark only one oval.*

- Chemical waste
- Radioactive waste
- Both a and b
- None of these

50. 42. Safety equipment for primary barriers include

*Mark only one oval.*

- Ventilators
- Face shields
- Safety glasses
- Both ii and iii

51. 43. Handling of Recombinant products requires

*Mark only one oval.*

- Characteristics of donor and recipient organism
- Characteristic of the modified organism
- expression and properties of the gene product
- All of these

52. 44. Which of the following type(s) of Personal Protective Equipment (PPE) is frequently used?

*Mark only one oval.*

- Safety glasses.
- Gloves
- Lab Coats.
- All of the above

53. 45. Which one of the following is not a component of elements of containment?

*Mark only one oval.*

- Laboratory practice; and technique.
- Safety equipment and
- Facility design.
- Biochemical hazard.

54. 46. The total duration of patent is ..... years

*Mark only one oval.*

- 10
- 20
- 30
- 40

55. 47. The violation of patent is called as

*Mark only one oval.*

- procecutiion
- conviction
- infringement
- violation

56. 48. The alternative to patent is

*Mark only one oval.*

- Defensive patenting
- Offensive patenting
- infringement
- Nil

57. 49. Which statement is wrong with respect to copyright?

*Mark only one oval.*

- Require payment per year
- Does not require any disclosure
- Does not require payment
- Nil

58. 50. Which statement is wrong with respect to patent?

*Mark only one oval.*

- Valid for 20 years
- Not a time consuming and lengthy
- require payment every year.
- none

59. 51. After filing, an application is often referred to as .

*Mark only one oval.*

- Patent pending
- Patent objection
- Patent infringement
- all

60. 52. The financial budget of EPO in 2019 is

*Mark only one oval.*

- EUR 2.0 billion
- EUR 2.4 billion
- EUR 3.0 billion
- None of these

61. 53. Leishmania donovani can be studied in

*Mark only one oval.*

- BSL I laboratory
- BSL II laboratory
- BSL III laboratory
- BSL IV laboratory

62. 54. Mycobacterium tuberculosis can be studied in

*Mark only one oval.*

- BSL I laboratory
- BSL II laboratory
- BSL III laboratory
- BSL IV laboratory

63. 55. In India, the literary work is protected until

*Mark only one oval.*

- Lifetime of author
- 25 years after the death of author
- 40 years after the death of author
- 60 years after the death of author

64. 56. Number of member states under WIPO are

*Mark only one oval.*

- 180
- 156
- 192
- None of these

65. 57. The rights of a patentee are

*Mark only one oval.*

- Sell or distribute
- License
- Assign the property to others
- all

66. 58. Patent holder must bring infringement action within

*Mark only one oval.*

- 6 yrs
- 5 yrs
- 2 yrs
- 3 yrs

67. 59. Which of the following is not an intellectual property law?

*Mark only one oval.*

- Copyright Act, 1957
- Trademark Act, 1999
- Customs Act, 1962
- Design Act, 2000

68. 60. Symbol of Maharaja of Air India is

*Mark only one oval.*

- Copyright
- Patent
- Trademark
- All of the above

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