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

Course Name - -BIOETHICS & BIOSAFETY Course Code - GEBT201

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- Diploma in Pharmacy
- Bachelor of Pharmacy
- B.TECH.(CSE)
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- BCA
- B.SC.(CS)
- B.SC.(BT)
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- B.SC.(HN)
- B.Sc.(MM)
- B.A.(MW)
- BBA
- B.A.(JMC)
- BBA(HM)
- BBA(LLB)
- B.OPTOMETRY
- B.SC.(MB)
- B.SC.(MLT)
- B.SC.(MRIT)
- B.SC.(PA)
- LLB
- <u>B.SC</u>(IT)-AI
- B.SC.(MSJ)
- Bachelor of Physiotherapy
- B.SC.(AM)
- Dip.CSE
- Dip.ECE

DIP.EE

<u>DIP.ME</u>

- PGDHM
- MBA
- M.SC.(BT)
- M.TECH(CSE)
- 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. Simple sequence repeats are

- 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.



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

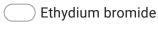
13. 5. Which regulatory body responsible for implementation of biosafety guidelines for recombinant DNA technology?

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.



- acetocarmine
- Methylene blue
- None of these
- 15. 7. The following cannot be exploited by assigning or by licensing the rights to others

- PatentDesign
- trade mark
- None of these

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

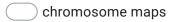
Mark only one oval.

- 10 lts
 15 lts
 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



- ____ 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

- 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, Taqpolymerage.
- DNA, Forward Primer, Mg+, Buffer, Taqpolymerage
- DNA, Mg+, Buffer, Taqpolymerage
- DNA, Primer, Mg+, Buffer, Taqpolymerage
- 24. 16. Handling of Recombinant products requires

- 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.



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



28. 20. The duration of secret patent is

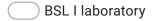
Mark only one oval.

10 years20 years5 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



- 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

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

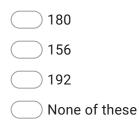
34. 26. Full form of RDAC is

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



37. 29. Example of intangible property include

Mark only one oval.

\bigcirc	Copyrights
\bigcirc	Land
\bigcirc	Vehicles
\bigcirc	Furniture

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

Mark only one oval.



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



- 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

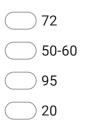
Mark only one oval.

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

Mark only one oval.



47. 39. Paternity test is best determined by

Mark only one oval.

F	RAPD
---	------

- SSR.
- non repetitive DNA.
- 48. 40. Which one of the following marker is of co-dominanat type?

Mark only one oval.



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

- 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

- 010
- 20
- 30

55. 47. The violation of patent is called as

Mark only one oval.

procecution

- 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?

- 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 impringement
- 🔵 all
- 60. 52. The financial budget of EPO in 2019 is

- 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

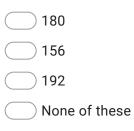
Mark only one oval.

- BSL I laboratory
- BSL II laboratory
- BSL III laboratory
- BSL IV laboratory
- 63. 55. In India, the literary work is protected until

- 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.



65. 57. The rights of a patentee are

Mark only one oval.

Sell or distribute	
License	
Assign the property to othe	ers
all	

66. 58. Patent holder must bring infringement action within

Mark only one oval.



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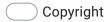
67. 59. Which of the following is not an intellectual property law?

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.



- Patent
- Trademark
- All of the above

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