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BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Optomety-2019/B.Sc.(MLT)-2019/B.Sc.(MLT)-2020/B.Optomety-
2020/B.Sc.(PA)-2020/B.Physiotherapy-2020/B.Sc.(MLT)-2021/B.Sc.
(MRIT)-2021/B.Optomety-2021/B.Sc.(PA)-2021/B.Physiotherapy-2021/B.Sc.
(OTT)-2021

Course Name – Bioethics & Biosafety

Course Code - GEBT201

(Semester II)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

(i) Headquarter of World Trade Organization (WTO) is

- | | |
|------------------------|--------------------|
| a) Munich, Germany | b) Vienna, Austria |
| c) Geneva, Switzerland | d) London, UK |

(ii) Biosafety level 3 laboratory is applicable to

- | | |
|-------------------------------------|--------------------------------|
| a) Clinical research | b) Dangerous and exotic agents |
| c) Undergraduate training institute | d) None |

(iii) BSL4 level include

- | | |
|--------------------------------|---------------------------|
| a) Toxic and hazards chemical. | b) mitochondrial cloning. |
| c) Self cloning | d) None of these |

(iv) DNA of eukaryotic organisms has several repeating units of short sequences called

- | | |
|--------------------|--------------------|
| a) random repeats. | b) tandem repeats. |
| c) mini satellites | d) all of these |

(v) Safety equipment for primary barriers include

- | | |
|-------------------|--------------------|
| a) Ventilators | b) Face shields |
| c) Safety glasses | d) Both ii and iii |

(vi) In India, the published literary work is protected until

- | | |
|---------------------------------------|---------------------------------------|
| a) Lifetime of author | b) 25 years after the death of author |
| c) 40 years after the death of author | d) 60 years after the death of author |

(vii) Number of member states under WIPO are

- | | |
|--------|------------------|
| a) 180 | b) 156 |
| c) 192 | d) None of these |

(viii) Symbol of Maharaja of Air India is

- a) Copyright
c) Trademark
- (ix) The term 'Intellectual Property Rights' covers
- a) Copyrights
c) Trade dress
- (x) Yersinia pestis(plague) can be studied in
- a) BSL I laboratory
c) BSL III laboratory
- (xi) A patent document must have
- a) Description of invention
c) Both i and ii
- (xii) Ebola virus and Variola virus can be studied in
- a) BSL I laboratory
c) BSL III laboratory
- (xiii) Which regulatory body responsible for implementation of biosafety guidelines for recombinant DNA technology?
- a) RDAC
c) DST
- (xiv) Which of the following dye is used for observing DNA in agarose gel?
- a) Ethidium bromide
c) Methylene blue
- (xv) The most reproducible type marker is
- a) RAPD
c) SSR
- b) Patent
d) All of the above
- b) Know-how
d) All of the above
- b) BSL II laboratory
d) BSL IV laboratory
- b) Claims of scope of protection
d) None of these
- b) BSL II laboratory
d) BSL IV laboratory
- b) GEAC
d) ICAR
- b) acetocarmine
d) None of these
- b) RFLP
d) None of these

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Explain briefly WIPO (3)
3. Explain DNA fingerprinting. (3)
4. Write about the classification of forensic science. (3)
5. Write about the application of forensic science. (3)
6. Differentiate between bioethics and business ethics. (3)

OR

Classify patents. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Write short note on : Biotechnology and social responsibility. (5)
8. State the public acceptance issues in biotechnology. (5)
9. How and who can helps intellectual property right in India? (5)
10. Discuss the criteria for patent challenge (5)
11. Discuss the advantages of patents (5)
12. Mention the alternatives of patent (5)

OR

Mention two PCR and non-PCR based type marker. (5)
