



# BRAINWARE UNIVERSITY

**Term End Examination 2021 - 22**

**Programme – Bachelor of Science in Critical Care Technology**

**Course Name – Bioethics & Biosafety**

**Course Code - GEBT201**

**( Semester II )**

**Time allotted : 1 Hrs.15 Min.**

**Full Marks : 60**

[The figure in the margin indicates full marks.]

## Group-A

(Multiple Choice Type Question)

1 x 60=60

*Choose the correct alternative from the following :*

- (1) Simple sequence repeats are
 

a) 1-6 bp long sequences distributed along the chromosome	b) individual specific in number and position.
c) also called as micro satellites	d) All of these
- (2) Radioactive probe is not required in
 

a) RAPD	b) AFLP
c) RFLP	d) All of these
- (3) Molecular marker Include
 

a) RFLP	b) AFLP
c) SSR	d) All of these
- (4) Which regulatory body responsible for implementation of biosafety guidelines for recombinant DNA technology?
 

a) RDAC	b) GEAC
c) DST	d) ICAR
- (5) Which of the following dye is used for observing DNA in agarose gel?
 

a) Ethydium bromide	b) acetocarmine
c) Methylene blue	d) None of these
- (6) The following cannot be exploited by assigning or by licensing the rights to others
 

a) Patent	b) Design
c) trade mark	d) None of these
- (7) Which one of the following marker is used for selection of transgenic plants:



- c) BSL III laboratory  
 (20) Number of member states under WIPO are  
 a) 180  
 c) 192
- d) BSL IV laboratory  
 b) 156  
 d) None of these
- (21) Trade in services includes which of the following?  
 a) Aerospace  
 c) Textiles
- b) Insurance  
 d) Computer hardware
- (22) Facility design for secondary barriers consist of  
 a) Basic Laboratory  
 c) Maximum Containment laboratory
- b) Containment laboratory  
 d) All of these
- (23) Headquarter of World Trade Organization (WTO) is  
 a) Munich, Germany  
 c) Geneva, Switzerland
- b) Vienna, Austria  
 d) London, UK
- (24) Biosafety level 3 laboratory is applicable to  
 a) Clinical research  
 c) Undergraduate training institute
- b) Dangerous and exotic agents  
 d) None
- (25) Which one of the following does not included under Category IV types of rDNA activities?  
 a) Self cloning  
 c) Cloning of genes for vaccine production: e.g. Rinderpest and leprosy antigens
- b) Toxin gene clonings  
 d) Genes coding for antibiotic resistance into pathogenic organisms.
- (26) Physical Containment (PC) mainly include  
 a) Host  
 c) Plasmid.
- b) bacteria  
 d) Preventing the exposure of the researcher and the environment to the harmful agents
- (27) The extension temperature of PCR is --- degree centigrade.  
 a) 72  
 c) 95
- b) 50-60  
 d) 20
- (28) Which one of the following marker is of co-dominanat type?  
 a) RAPD.  
 c) all.
- b) RFLP.  
 d) i and ii
- (29) Examples of hazardous waste are  
 a) Chemical waste  
 c) Both a and b
- b) Radioactive waste  
 d) None of these
- (30) The set of DNAs generated by using random primers in a PCR reaction is called  
 a) SSR.  
 c) AFLP
- b) RFLP  
 d) None of these
- (31) Organisms handled in BSL-III labs are  
 a) Leishmania donovani  
 c) M. tuberculosis
- b) SARS coronavirus  
 d) All of these
- (32) Safety equipment for primary barriers include  
 a) Ventilators
- b) Face shields

- c) Safety glasses
- (33) Handling of Recombinant products requires
- a) Characteristics of donor and recipient organism
- b) Characteristic of the modified organism
- c) expression and properties of the gene product
- d) All of these
- (34) Which of the following type(s) of Personal Protective Equipment (PPE) is frequently used?
- a) Safety glasses.
- b) Gloves
- c) Lab Coats.
- d) All of the above
- (35) Which one of the following is not a component of elements of containment?
- a) Laboratory practice; and technique.
- b) Safety equipment and
- c) Facility design.
- d) Biochemical hazard.
- (36) The total duration of patent is ..... years
- a) 10
- b) 20
- c) 30
- d) 40
- (37) Which statement is wrong with respect to patent?
- a) Valid for 20 years
- b) Not a time consuming and lengthy
- c) require payment every year.
- d) none
- (38) Hepatitis A, B, and C virus can be studied in
- a) BSL I laboratory
- b) BSL II laboratory
- c) BSL III laboratory
- d) BSL IV laboratory
- (39) Forms of IPR include
- a) Patents
- b) Trademark
- c) Copyright
- d) All of these
- (40) Measles virus can be studied in
- a) BSL I laboratory
- b) BSL II laboratory
- c) BSL III laboratory
- d) BSL IV laboratory
- (41) Leishmania donovani can be studied in
- a) BSL I laboratory
- b) BSL II laboratory
- c) BSL III laboratory
- d) BSL IV laboratory
- (42) In India, the 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
- (43) The rights of a patentee are
- a) Sell or distribute
- b) License
- c) Assign the property to others
- d) all
- (44) Example of intangible property include
- a) Copyrights
- b) Land
- c) Vehicles
- d) Furniture
- (45) Which of the following is not an intellectual property law?
- a) Copyright Act, 1957
- b) Trademark Act, 1999
- c) Customs Act, 1962
- d) Design Act, 2000

(46) The term 'Intellectual Property Rights' covers

- a) Copyrights
- b) Know-how
- c) Trade dress
- d) All of the above

(47) GEAC stands for

- a) Genetic Engineering Applied Committee
- b) Genetic Engineering Appraisal Committee
- c) Genetic Engineering Appraisal Council
- d) Genetic Engineered Appraisal Committee

(48) A patent document must have

- a) Description of invention
- b) Claims of scope of protection
- c) Both i and ii
- d) None of these

(49) Ebola virus and Variola virus can be studied in

- a) BSL I laboratory
- b) BSL II laboratory
- c) BSL III laboratory
- d) BSL IV laboratory

(50) The number of nucleotide repeats in minisatellite are

- a) 6-10
- b) 1-5
- c) 15-30
- d) 30-80

(51)



Identify the safety violation

- a) Organized lab.
- b) Unorganized lab
- c) All of these
- d) None of these

(52) Patent applications are divided into following headings

- a) Field of the invention
- b) Background of the invention
- c) Both a and b
- d) None of these.

(53) Steps leading to Commercialization are

- a) Assessment of report of invention
- b) Requirement for licensing
- c) Prosecuting patent application
- d) All of these

(54) Plant is a

- a) Tangible property
- b) Intangible property
- c) Both a and b
- d) None of these

(55) Trademarks are

- a) Tangible property
- b) Intangible property
- c) Both a and b
- d) None of these

(56) Franchises are

- a) Tangible property
- b) Intangible property
- c) Both a and b
- d) None of these

(57) Dis advantages of GMO food is

- a) Allergic Reaction
- b) Autoimmune response
- c) more nutritious food
- d) Pest resistance Plant Production

(58) GEAC stands for \_\_\_\_\_

- a) Genetic Ethical Approval Committee
- b) Genetic Engineering Active Commission

c) Genetic Ethical Active Commission

d) Genetic Engineering Approval Committee

(59) Which of the following can be patented

a) Machine

b) .Process

c) Composition of matter

d) All of the above

(60) De-contamination Process using Bio organism is known as

a) Bio pesticides

b) Bio remediation

c) Biosafety

d) Bio ethics