

## **BRAINWARE UNIVERSITY**

## Term End Examination 2021 - 22 Programme – Bachelor of Science in Operation Theatre 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 b) individual specific in number and position. chromosome 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

(7) Which one of the following marker is used for selection of transgenic plants:

c) trade mark

d) None of these

a) Drug resistance gene.	b) RAPD marker.
c) Antibiotic resistance gene	d) vitamin resistance gene
(8) Molecular markers are used to construct	
a) chromosome maps	b) cytogenetic maps
c) physical maps	d) All of these
(9) Radioactive waste are:	
a) Nuclear war materials	b) Rigid container
c) Test explosions	d) Both (Nuclear war materials) and (Test explosions)
(10) Intellectual Property Rights (IPR) is a process whideas that are of	hich protects the use of information and
a) Ethical value	b) Commercial value
c) Social value	d) Moral value
(11) Mastermix of PCR contain	
a) DNA, Forward and reverse Primer, Mg+, Buffer, Taqpolymerage.	b) DNA, Forward Primer, Mg+, Buffer, Taqpolymerage
c) DNA, Mg+, Buffer, Taqpolymerage	d) DNA, Primer, Mg+, Buffer, Taqpolymerage
(12) The length of RAPD primer is	
a) 10-15 bp	b) 30-40 bp
c) 40-50 bp	d) None of these
(13) Chemical, reagents or broth cultures should be p	ipetted by?
a) mouth	b) pipette
c) ear	d) nose
(14) What is the name of the procedure performed uncontamination in hopes to obtain a pure culture of	
a) sterilization technique.	b) aseptic technique.
c) disinfectant technique	d) pathogen technique.
(15) Handling of Recombinant products requires	
<ul> <li>a) Characteristics of donor and recipient organism</li> </ul>	b) Characteristic of the modified organism
c) expression and properties of the gene product	d) All of these
(16) Paris Convention for the Protection of Industrial	Property, initially signed in
a) 1983	b) 1883
c) 1988	d) 1999
(17) Which regulatory body helps and supports Britis. India:	h businesses with regard to trade with
a) The UK India Business Council (UKIBC)	b) British High commission
c) British Academy of Commerce	d) None of these
(18) Main features of TRIPs agreement are	
a) Standards	b) Enforcement
c) Dispute settlement	d) All of these
(19) Salmonella can be studied in	
a) BSL I laboratory	b) BSL II laboratory

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

c) Safety glasses	d) Both ii and iii
(33) Handling of Recombinant products requires	
<ul> <li>a) Characteristics of donor and recipient organism</li> </ul>	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 Prote used?	ctive Equipment (PPE) is frequently
a) Safety glasses.	b) Gloves
c) Lab Coats.	d) All of the above
(35) Which one of the following is not a component of	f 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 prop	perty 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 minisatellit	e 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 he	adings
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 registance 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 pesticidesb) Bio remidiationc) Biosafetyd) Bio ethics