

BRAINWARE UNIVERSITY

ODD Semester Examinations 2021-22

Programme – Bachelor of Physiotherapy - 2020 [B.Physiotherapy]

Course Name – Biotechnology and Human Welfare

Со	urse Code – GEBT301	
	(Semester III)	
Time allotted : 1 Hour 15 Minutes		Full Marks : 60
(Multiple ch	noise type question)	60 x 1 = 60
Choose the corr	rect alternative from the following	
(I) In Ti plasmid the opine synthesis gene is located	2)	
A) near the left T-DNA border	B) near the right T-DNA border	
C) in between vir region and left T-DNA border	D) near to Ori genes	
(II) Serum sickness is an example of		
A) Type I immune complex disease	B) Type II hypersensitivity	
C) Type III immune complex disease	D) Type IV hypersensitivity	
(III) Point mutation refers		
A) Chromosome deletion	B) Chromosome addition	
C) DNA base injury	D) None of these	
(IV) Psychrophiles grows in		
A) 15 to 20°C	B) 35 to 45°C	
C) 45 to 100°C	D) all of these	
(V) The percentage of nitrogen in the air is		
A) 75%	B) 78%	
C) 15%	D) 70%	
(VI) What is a measure of the average additional pounds of m	ilk and fat the hull will transmit to his daughters called?	
A) Age	B) Efficiency	
C) Predicted difference	D) Milking capacity	
	5,geapadity	
(VII) Advantage of live vaccines are		
A) Long term protection	B) Both cellular and humoral responses	
C) one or few doses normally required	D) All of these.	
(VIII) Method of disposal for dairy product processing		
A) Land filling	B) Land spreading	
C) both of these	D) None of these	
(IX) What is percentage of fungal resources used for optimum	enzyme production?	
A) 22	B) 60	
C) 4	D) 40	
(X) PEG is used in gene transfer in plants by		
A) Biological method	B) Physical method	
C) Chemical method	D) Mechanical method	
(XI) Mismatched blood group transfuse causes		
A) Activation of cytotoxic cells	B) Activation of Type II hypersensitivity	
C) Activation of IgE	D) Activation og IgM	

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(XII) An example of protein engineering is

A) Co-vaccine	B) Covisheald	
C) Humulin	D) BT- cotton	
(XIII) Which one of the following marker is of co-dominanat type?		
A) RAPD.	B) RFLP.	
C) both of these	D) None of these	
(XIV) In gluconeogenesis 'glucose 6-phosphate' is converted into 'glu	cose' by	
A) Releasing one phosphate molecule	B) Adding one phosphate molecule	
C) Releasing two phosphate molecule	D) Adding two phosphate molecule	
(XV) In agarose gel DNA fragments moves according to their		
A) Size	B) charge	
C) charge and size	D) all	
(XVI) Method of disposal for Sugar processing	P\ burning	
A) composting C) none of these	B) burning D) Both burning and composting	
	-,	
(XVII) Alkaloids are		
A) Plant hormone	B) Plant toxin	
C) Plant primary metabolites	D) Plant secondary metabolites	
(XVIII) The extension temperature of PCR is degree centrigrade.		
A) 72	B) 50-60	
C) 95	D) 20	
(XIX) Example of somatic cell gene therapy		
A) Introduction of genes into bone marrow cells	B) Introduction of genes into blood cells	
C) Introduction of genes into skin cells	D) all of these	
(XX) Monoclonal antibody for Alzheimer`s disease		
A) Bapineuzumab	B) Solanezumab	
C) aducanumab	D) all of these	
(XXI) HIV virus is unique in the sense that		
A) It has got reverse transcriptase enzyme	B) It has got RNA	
C) It has got both RNA and DNA	D) All are correct	
(XXII) Tumor growth in a plant is the symptom of		
A) Gall disease	B) Wilt disease	
C) Canker disease	D) Blight disease	
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(XXIII) Agrobacterium tumefaciens contains about number of (A) 5000	B) 500	
C) 50,000	D) 5500	
(XXIV) The number of base pairs in primer is A) 2-3	B) . 3-4	
C) 25-35	D) 100-200	
	2, 200 200	
(XXV) In developmental/reproductive biology 'IVF' refers		
A) In vitro fertilizationC) In vitro fusion	B) In vivo fertilization D) In vivo fusion	
C) In vitro fusion	D) In vivo fusion	
(XXVI) 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	
(XXVII) Which of the following is not a variety of cheese?		
A) Blue	B) Cheddar	
C) Buttery	D) Cottage	
(XXVIII) Example of chemical stress are		

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A) herbicides C) chilling	B) wind D) Radiation
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(XXIX) The pigment present in Root nodule	D) Log hamaglabin
A) hemoglobin C) Myoglobin	B) Leg-hemoglobin D) carbamino haemoglobin
C) Myoglobiii	b) carbanino naemogiobin
(XXX) Holo enzyme made up of	
A) Apo enzyme and co enzyme	B) Apo enzyme and co factor
C) quaternary peptide structure with substrate	D) Bubble like structural protein
(XXXI) First approved gene therapy experiment	
A) Ashanti DeSilva was treated for alzheimer	B) Ashanti DeSilva was treated for multiple sclerosis
C) Ashanti DeSilva was treated for ADA-SCID	D) Ashanti DeSilva was treated for Huntington`s disease
(XXXII) Fields of forensic science	
A) Forensic Optometry	B) Forensic DNA Analysis
C) Forensic Pathology	D) All of these
(XXXIII) Environmental stress includes	
A) Abiotic stress	B) Biotic stress
C) both of these	D) None of these
(00000)	
(XXXIV) Name the start codon of amino acid synthesis	D) ALIC
A) UUA C) UUU	B) AUG D) AGU
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(XXXV) Natural biodegradable polymers are	
A) Collatin	B) Dextran
C) Gelatin	D) All of these.
(XXXVI) Ligation refers	
A) Joining of DNA molecules	B) Cutting of DNA molecules
C) Amplification of DNA molecule	D) Cloning of gene
(XXXVII) Meat tenderizer enzyme is	
A) Cellulase	B) Amylase
C) Papain	D) Pectinase
(XXXVIII) DNA fingerprinting can cure diseases like	
A) Huntington's disease	B) sickle cell anemia
C) thalassemia	D) All of these
(XXXIX) Examples of agrowaste	
A) fats	B) oil waxes
C) cellulose	D) all of these
(VI.) The coden recognible for methicing amine acid is	
(XL) The codon responsible for methionine amino acid is A) UUA	B) AUG
C) GCU	D) AUA
	·
(XLI) Example of Non biodegradable polymers	D) nelvethylene
A) poly vinyl chloride,C) both of these	B) polyethylene D) None of these
C _f Dour or diese	b) Notic of these
(XLII) The first industrial enzyme was discovered in	
A) 1896	B) 1986
C) 1869	D) 1969
(XLIII) What do nonstructural carbohydrates consist of?	
A) Plant proteins, pectin, and sugar	B) Protein
C) Plant starch, pectin, and sugar	D) Plant sugar

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(XLIV) Molecular markers are used to construct

A) chromosome maps	B) cytogenetic maps
C) physical maps	D) All.of these
(XLV) Biological samples for DNA fingerprinting	
A) Blood	B) Hair
C) Saliva	D) All of these
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(XLVI) Paternity test is best determined by	
A) RAPD.	B) AFLP
C) SSR.	D) non repetitive DNA.
(XLVII) Full form of PEG is	
A) Polyethylene glycol	B) Polyester glycol
C) Polyethylene glucose	D) Polyester glucose
(VIVIII) antihiatia ganavallu kill haatavia hu	
(XLVIII) antibiotic generally kill bacteria by A) Inhibition cell wall synthesis	B) inhibition protein synthesis
C) perforate plasma membrane	D) all of them
c) periorate plasma membrane	b) att of them
(XLIX) How much more energy do fats contain per unit than carbohy	/drates and proteins?
A) 3.0	B) 2.25
C) 3.5	D) 1.5
(L) Example of in vivo gene therapy involved in	
A) cystic fibrosis transmembrane regulator (CFTR)	B) Multiple sclerosis
C) both of these	D) None of these
(LI) Alpha helix and beta sheet of amino acid chain can NOT visible i	
Quaternary structure	B) Secondary structure
C) Primary structure	D) Tertiary structure
(LII) Suffix for monoclonal antibodies is	
A) mbB	B) Maa
C) mAb	D) Mob
(LIII) Which statement is true?	
A) The origin of T and B cells is different	B) The origin of T and B cells is different
C) T and B cells are found at different places in the lymphoid	
pool	D) Actually there is no difference between T and B cells.
(LIV) Bacteria contributes % of total commercial enzyme proc	duction
A) 5%	B) 24%
C) 60%	D) 15%
c, 30%	5, 15%
(LV) Saccharomyces cerevisiae is used for	
A) Alcohol production only	B) bread production only
C) both alcohol production and bread production	D)
(LVI) Amino acids are connected with	
A) H-bond	B) Covalent bond
C) Hydrophilic bond	D) Peptide bond
(IVII) Nulan/Nitrocallulaca mambrana ara usad far	
(LVII) Nylon/Nitrocellulose membrane are used for A) Transfer of DNA	B) Lysis of cell
C) Cutting of DNA fragments	D) All of these
C) Cutting of DNA fragilicitis	of autorities
(LVIII) What is the name of one of the 4 compartments of a ruminant	
A) Rumen	B) Calf
C) Udder	D) Hind
(LIX) The length of RAPD primer is	
A) 10-15 bp	B) 30-40 bp.
C) 40-50 bp.	D) none

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- (LX) Which one is the example of delayed type hypersensitivity
 - A) Acute contact dermatitis
 - C) Pollen allergic response

- B) Positive tuberculin test
- D) Allergic reaction against food

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