



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme – Bachelor of Science in Operation Theatre Technology

Course Name – Biochemistry

Course Code - BOTT202

(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) Nucleus is separated from cytoplasm by

a) nuclear membrane	b) nucleoplasm
c) organs	d) cell membrane
- (2) Cells which lack nuclear membrane are

a) multicells	b) eukaryotic cells
c) prokaryotic cells	d) single cells
- (3) Cell walls is found in

a) plant cells only	b) animal cells only
c) both (a) and (b)	d) none of them
- (4) The _____ cell transfers the messages.

a) Muscle cell	b) gastric cell
c) neurons	d) nephrons
- (5) This cell organelle does not contain DNA

a) Nucleus	b) Mitochondria
c) Lysosomes	d) Chloroplast
- (6) A globular molecule which is embedded in the membrane is

a) Integral protein	b) globular protein
c) phospho protein	d) All of these
- (7) Fluid mosaic model was developed by

a) Singer	b) Nicoloson
c) watson	d) both a and b

- (8) Which of the following act as barrier to most water soluble substances:
- | | |
|------------------|----------------------|
| a) Phospholipids | b) Hydrophilic heads |
| c) Nucleus | d) DNA |
- (9) Osmosis is a special kind of
- | | |
|---------------|---------------|
| a) Regulation | b) Absorption |
| c) Diffusion | d) Adsorption |
- (10) Find the pH of a solution containing an equal volume of 0.1 M NaOH and 0.01 M HCl.
- | | |
|----------|---------|
| a) 7 | b) 2 |
| c) 12.65 | d) 1.04 |
- (11) As pKa value increases the acid will be
- | | |
|----------------------------------|--------------------------------|
| a) More weaker | b) More stronger |
| c) converted to neutral solution | d) converted to basic solution |
- (12) Normal blood pH
- | | |
|---------|---------|
| a) 7.35 | b) 6.35 |
| c) 4.25 | d) 8.5 |
- (13) When there are no external forces, the shape of a liquid drop is determined by
- | | |
|----------------------------------|--------------------------------|
| a) Surface Tension of the liquid | b) The density of the liquid |
| c) The viscosity of the liquid | d) The temperature of air only |
- (14) Chitin consists of:
- | | |
|--------------------------|---|
| a) N-acetyl muramic acid | b) N-acetyl glucosamine |
| c) D-glucose unit | d) N-acetyl muramic acid and N-acetyl glucosamine |
- (15) Lactulose is disaccharide comprised of :
- | | |
|------------------------|-------------------------|
| a) Glucose & Galactose | b) Galactose & Fructose |
| c) Sucrose & Fructose | d) Fructose and Maltose |
- (16) Name a glycosidic antibiotic:
- | | |
|-----------------|------------------|
| a) Streptomycin | b) Azithromycin |
| c) Penicillin | d) Glucovanillin |
- (17) Which of the following polysaccharide employed for the assessment of kidney function:
- | | |
|---------------------|-------------|
| a) Albumin | b) Glycogen |
| c) Keratan sulphate | d) Inulin |
- (18) Starch consists of:
- | | |
|----------------------------|-----------------------------|
| a) Amylose and Amylopectin | b) Amylase and amylose |
| c) Amylopectin only | d) Amylodextrin and Amylose |
- (19) Which of the following substances would have the most trouble crossing the membrane by diffusing through the bilayer?
- | | |
|-----------|--------------------|
| a) Water | b) CO ₂ |
| c) Oxygen | d) sodium ion |
- (20) Which type of movement goes from low to high concentration?
- | | |
|---------------------|--------------------------|
| a) active transport | b) diffusion |
| c) osmosis, | d) facilitated diffusion |
- (21) What do we call the maximum velocity of a fluid in a tube for which the flow remains

streamlined?

- a) Hyper velocity
- b) Critical velocity
- c) Stream velocity
- d) Laminar velocity

(22) Which of the following represents Kinematic viscosity?

- a) Viscosity/temperature
- b) Viscosity/area
- c) Viscosity/density
- d) Viscosity/mass

(23) Which of these amino acids are essential for infants?

- a) Methionine
- b) Arginine and Histidine
- c) Valine
- d) Lysine and Leucine

(24) Parkinson's Disease is linked with decreased synthesis of:

- a) Dopamine
- b) Serotonin
- c) Arginine
- d) None of the above

(25) Which of the following is fibrous amino acid:

- a) Chitin
- b) Collagen
- c) Tyrosine
- d) Pepsin

(26) Name the amino acid that directly participate in the Heme synthesis

- a) Tryptophan
- b) Methionine
- c) Aspartate
- d) Glycine

(27) Which amino acid is related to blood clotting

- a) γ carboxy glutamic acid
- b) Aspartate
- c) Glutamate
- d) Tryptophan

(28) Biuret test is used for:

- a) Peptide chain identification
- b) Phenolic groups identification
- c) aromatic group identification
- d) alkyl group identification

(29) Creatine phosphokinase is related to

- a) Liver diseases
- b) early marker of myocardial infarction
- c) Jaundice
- d) cancer

(30) Urea produced in:

- a) Kidney
- b) Liver
- c) Pancreas
- d) blood stream

(31) Nucleic acids can be analyzed experimentally by their

- a) molecular weight
- b) absorption of visible light
- c) absorption of uv light
- d) none of these

(32) The most stabilizing force for nucleic acids is

- a) hydrogen bonds
- b) electrostatic bond
- c) Van der Waals
- d) conformational entropy

(33) In gel electrophoresis, what fragments will move most quickly through a gel?

- a) Large fragments
- b) Small fragments
- c) Large genome
- d) None of these

(34) The first person to discover vitamin

- a) Jenner
- b) Funk
- c) Mallanby
- d) Calvin

