

Q.P. Code: 126007

Reg. No.:.....

First Professional BUMS Degree Supplementary Examinations

January 2024

Munafeul Aza – Paper I

(2022 Scheme)

Time: 3 hrs

Max Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*

1. Multiple Choice Questions

(20x1=20)

The Answers to MCQ questions (Q.No.i to Q.No.xx) shall be written continuously on the first two writing sheets (ie Page No. 3 & 4) only

- The pH of ECF has to be maintained at the critical value of.
a) 7.4 b) 7.8 c) 7.9 d) 8
- These are the types of channels that open in the presence of some hormonal substances.
a) Mechanically gated channels b) Ligand-gated channels
c) Ion channels d) Symporters
- The cell membrane of muscle fiber is also called.
a) Plasmalemma b) Sarcolemma c) Plasma layer d) Sarcomere
- Final products of protein digestion are.
a) Amino acids b) Peptone c) Peptide d) Polypeptide
- Kidney maintained the acid-base balance by secretion of.
a) Bicarbonate ion b) Carbonic acid
c) Hydrogen ion d) Sodium chloride
- Presence of these granules gives a rough appearance to the rough endoplasmic reticulum.
a) Protein molecule b) Granular ribosomes
c) Amino acid d) Nucleic acid
- These proteins help in the diffusion of water-soluble substances such as glucose and electrolytes.
a) Integral proteins b) Peripheral proteins
c) Channel proteins d) Receptor proteins
- These cell organelles break down the fatty acids by means of a process called beta-oxidation.
a) Endoplasmic reticulum b) Golgi apparatus
c) Mitochondria d) Peroxisomes
- Transitional epithelium is found in this region of the body.
a) Urinary bladder b) Stomach c) Small intestine d) Skin
- Hair, Nails, and hoof are the modified epithelium of this class.
a) Stratified squamous cornified epithelium
b) Non-keratinized epithelium
c) Adipose tissue
d) Ciliated epithelium
- Increase in the total count of RBC is called as
a) Leukocytosis b) Leukocytopenia c) Anemia d) Polycythemia

(PTO)

- xii. After the age of 20 years RBCs are produced from
 - a) Liver
 - b) Spleen
 - c) Membranous bone
 - d) Vertebra
- xiii. Interleukin-1 is secreted by this type of WBCs.
 - a) Neutrophil
 - b) Monocytes
 - c) Basophils
 - d) Lymphocytes
- xiv. These globulins play an important role in the defense mechanism of the body by acting as antibodies.
 - a) Beta globulins
 - b) Gamma globulins
 - c) Delta globulins
 - d) None of the above
- xv. These WBCs are responsible for the defense mechanism of the body against parasites and parasitic worms.
 - a) Neutrophil
 - b) Basophil
 - c) Lymphocyte
 - d) Eosinophils
- xvi. Blood typing is done on the basis of
 - a) Agglutination
 - b) Hemolysis
 - c) Clumping
 - d) Coagulation of blood
- xvii. This type of immunity is mediated by antibodies, which are secreted by B lymphocytes.
 - a) Acquired immunity
 - b) Cell-mediated immunity
 - c) Humoral immunity
 - d) All of the above
- xviii. This type of reaction develops within a few minutes to hours of blood transfusion.
 - a) Hemolytic transfusion reaction
 - b) Anaphylactic shock
 - c) Allergic reactions
 - d) Non-hemolytic transfusion reaction.
- xix. These are the substances which include specific immune reactions in the body.
 - a) Agglutinogen
 - b) Agglutinins
 - c) Antigens
 - d) Antibodies
- xx. In adult, plasma proteins are synthesized mainly from reticuloendothelial cells of
 - a) Liver
 - b) Bone marrow
 - c) Spleen
 - d) General tissue cells

Short Answer Questions

(8x5=40)

2. Write a short note on the bicarbonate buffer system.
3. ABO system of blood group.
4. Sequence of events in the intrinsic pathway of blood coagulation.
5. Write a short note on the first Heart sound.
6. Bipolar limb lead.
7. Define vitamins and enumerate their general characters.
8. Composition of lymph.
9. Write a note on sources of vitamin C. Daily dosage and deficiency signs.

Long Answer Questions

(4x10=40)

10. Classify simple epithelial tissue and write a detailed note on the structure, distribution, and function of ciliated epithelial tissue.
11. Write in detail the functions of the lymph node.
12. Write in detail the different stages of development of WBCs in the bone marrow and also mention their function.
13. Write in detail about the Rh incompatible blood reaction.
