## First Professional BUMS Degree Regular/Supplementary Examinations June 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 i. The word "homeostasis" was coined by the Harvard Physiologist ..... a) Walter B Cannon b) Jean Fernel d) Carvalho c) Brown ii. Normal acid base ratio is..... b) 1:20 a) 1:2 c) 2:1 d) 20:1 The carrier protein which transport two different substances in same direction iii. is called..... a) Uniport b) Symport c) Antiport d) Counter transport ..... channels open in the presence of some hormonal substances. iv. a) Gated b) Voltage gated c) Ligand gated d) Mechanically gated This process is also called drinking of cell. ۷. a) Phagocytosis b) Anisocytosis c) Pinocytosis d) Apoptosis vi. ..... are responsible for the movement of chromosomes during cell division. a) Endoplasmic reticulum b) Centrioles c) Mitochondria d) Ribosomes vii. ..... word is used as cell death in physiology b) Pinocytosis c) Phagocytosis a) Apoptosis d) None ..... is the cell to cell junction, which connects the intermediate filament viii. of two adjacent cells. a) Adherence junction b) Hemidesmosome c) Desmosome d) Gap junction Haversian system is the characteristics feature in the histology of ..... ix. a) Cardiac muscle b) Bone d) Adipose tissue c) Cartilage In this type of gland cells the secretion is guietly liberated through the cell Х. membrane. b) Apocrine a) Holocrine c) Merocrine d) Goblet cell During the second trimester of pregnancy erythropoiesis occurs in fetus xi. primarily in ..... a) Red bone marrow b) Kidney d) Liver c) Yolk sac (PTO)

xii	. Normal values of Packed Cell Value i a) 30% - 35%	n male is b) 38% - 42%	
	c) 40% - 45%	d) 48% - 52%	
xiii. Which of the antibody can cross the placental barrier.			
	a) IgA b) IgG	c) IgD	d) lgE
xiv	, , , , ,	, 0	/ 0
	a) 8 – 10 hours	b) 8 – 10 days	
	c) 8 – 10 weeks	d) 8 – 10 months	
XV			
	a) Group AB b) Group O	c) Group B	d) Group A
xvi. At the time of birth normal hemoglobin content is			
	a) 14 gm% b) 15 gm%	c) 20 gm%	d) 25 gm%
xvii is necessary for erythropoiesis as general factor.			
	a) Folic acid	b) Vitamin B <sub>12</sub>	
	c) Erythropoietin	d) Intrinsic factor	
xviii. During leucopoiesis monoblast develop into			
	a) Myeloblast	b) Myelocyte	
	c) Metamyelocyte	d) Monocyte	
xix. After the life span of 120 days, Red blood cell is destroyed			
	a) Epithelial tissue	b) Reticuloendothe	elial tissue
	c) Adipose tissue	d) Bone	
xx. In which of the following anemia, there is			
	a) Pernicious anemia	b) Sickle cell anem	
	c) Thalassemia	d) Aplastic anemia	
Short Answer Questions (8x5=40)			
2. Explain primary active transport.			
3.	Write note on leucopoiesis.		
4.	Describe the properties of platelets.		
5.	Histology of lymph node.		
6.	escribe in detail about the heart sound.		
	Describe special junctional tissues of heart.		
8.	Describe the disorder related to Vitamin C.		
9.	Write down the sources, functions and da	aily requirement of Vita	amin D.
Long Answer Questions (4x10=40)			
10 Describe the mitotic cell division in detail			

- 10. Describe the mitotic cell division in detail.
- 11. Define and describe the synthesis of hemoglobin.
- 12. Describe the factors maintaining the blood pressure.
- 13. Explain about the metabolism of carbohydrate in detail.

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