Madhya Pradesh Medical Science University, Jabalpur

PBBSc. Nursing First Year Main Examination January - 2020 Paper Code: - 20AN0101101821

Time:	3	Hours

Subject:- Biochemistry & Biophysics

Maximum Marks: 75

- 1) All questions are compulsory 2) Draw diagrams wherever necessary 3) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued 4) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means. Student can answer the question in both Hindi and English Language. Select the correct answer: 0.1 (1x5=5)The synthesis of glucose from fat is called. i) a) Glycolysis b) Krebs Cycle c) Saponification d) Gluconeogenesis Enzymes are: a) Proteins b) Carbohydrates c) Nucleic Acid d) DNA Molecules iii) Xerophthalmia is a caused by the deficiency of: a) Vitamin K b) Vitamin A c) Vitamin C d) Vitamin D iv) Function of nucleotide includes: a) Information, Storage & Transmission b) Storage of chemical energy d) All of the above c) cell signalling Which of following pairs is not correctly matched? (a) Vitamin B4- Pellagra (b) Vitamin B12- Pernicious anemia (d) Vitamin B6- BeriBeri (c) Vitamin C Scurvy Q.2 Write brief notes on: (Any Two) (5x2=10)Fluid Mosaic model of cell membrane b. **Phospholipids** Classification of Enzymes Q.3 **Short Notes on: (Any Five)** (2x5=10)Plasma Protein a.
 - b. Function of electrolytes
 - c. Galactosemia
 - d. Urea cycle
 - e. Essential fatty acid
 - f. Ketone bodies

O.4 Define gluconeogenesis. Write in details the pathway and regulation of gluconeogenesis.

1	a.	Atmospheric pressure	
	b.	Ultrasound	
	c.	P,Q,R,S,T Waves of electrocardiogram	
	d.	MRI	
	e.	Osmosis	
	f.	Law of conservation of energy	
Q.6	Write short notes on: (Any Two) a. Use of light in therapy		(5x2=10)
	b.	Pulleys and its type	
	c.	Pacemaker	
	d.	Occular Pressure	
O .7	D	escribe briefly the use of various electronic equipment's in patient care?	(15)

(2x5=10)

Q.5 Define the following: (Any Five)