FYP.B.B.Sc (Nursing): Winter-2018 Subject: BIOCHEMISTRY AND BIOPHYSICS

Day: Mon	1dan	Time: —			
Date: 8 · 10 · 2018		18 W.2018-4051 Max. Marks: 15	·2018-4051 Max. Marks: 15		
N.B:					
1)		questions are COMPULSORY.			
2)		a ☑ tick mark in the appropriate box.			
3)		BLUE/ BLCK pen only.			
4) 5)		tion one should be completed in 15 minutes. h question carries ONE mark.			
6)		dents will be allotted marks if he/ she overwrite strikes or puts	white ink on the		
0)		s once marked.	Willie Hill Oll till		
Seat No.:		Total Marks Obtained			
Jr. Signatur	·e	Examiners Signature			
Q.1 N	MCQ:	SECTION-I (BIOCHEMISTRY)			
Q.1		nal serum total cholesterol level is			
C	a)	150- 200 mg/dl			
	b)	100-150 mg/dl			
	c)	60- 130 mg/dl			
	d)	40-60 mg/dl			
Q.2	Нур	onatremia is the condition where concentration of	•		
	a)	Na- decreases			
	b)	K- decreases			
	c)	Na- increases			
	d)	K-increases			
Q.3	Synt	hesis of glucose from non carbohydrate substances is	s called as		
	a)	Glycolysis			
	b)	Glycogenesis			
	c)	Gluconeogenesis			
	d)	Glycogenolysis			
Q.4	Bene	edict's test is used for detection of			
	a)	Urea in Urine			
	b)	Sugar in urine			
	c)	Ketone bodies in urine			
	d)	Protein in urine	P.T.O.		

Q.5	The	only immunoglobulin which can cross the placenta is	
	a)	IgA	
	b)	IgM	
	c)	IgG	
	d)	IgD	
Q.6	One	of the following enzyme useful in diagnosis of pancreatitis is	·
	a)	Lipase	
	b)	Alanine amino transferase	
	c)	Cholinesterase	
	d)	None of these	
Q.7	All	are ketone bodies Except	
	a)	Acetoacetic acid	
	b)	Acetone	
	c)	β hydroxy butyrate	
	d)	Acetyl coA	
Q.8	Uric	e acid level increases in	
	a)	Jaundice	
	b)	Diabetes mellitus	
	c)	Diabetes insipidus	
	d)	Gout	
		(BIOPHYSICS)	
Q.9		ch of the following quantities has no unit	
	a)	Stress	
	b)	Strain	
	c)	Surface tension	
	d)	Velocity	
Q.10		ox is a mixture of oxygen and nitrous oxide in the ratio	
	a)	25: 75	
	b)	75: 25	
	c)	50: 50	
	d)	60: 40	2

Q.11	Mass of an object at the centre of the earth is					
	a)	Zero				
	b)	Maximum				
	c)	Minimum				
	d)	Remains same				
Q.12	In th	ne case of fixed pulley the mechanical advantages is				
	a)	0				
	b)	1				
	c)	2				
	d)	3				
Q.13	Asti	gmatism can be removed by using				
	a)	Convex lens				
	b)	Concave lens				
	c)	Cylindrical lens				
	d)	Prismatic lens				
Q.14	The	loudness of the sound depends upon which of the following?				
	a)	Amplitude				
	b)	Pitch				
	c)	Speed				
	d)	Wavelength				
Q.15	In a	X-ray tube target is generally made of				
	a)	Cead				
	b)	Tungsten				
	c)	Copper				
	d)	Antimony				

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F. Y. P. B. B. SC. (NURSING): WINTER- 2018 SUBJECT: BIOCHEMISTRY AND BIOPHYSICS

Time: 10.00 A.M. TO 01.00 P.M. Day: Monday Date: 08/10/2018 Max. Marks: 60 W-2018-4051 N.B: All questions are **COMPULSORY**. 1) 2) Figures to the right indicate FULL marks. Answers to both the sections should be written in **SEPARATE** answer book. 3) **SECTION-II** (BIOCHEMISTRY) **Q.2** Write short notes on (ANY THREE): (15)Atherosclerosis Diagnostic applications of enzymes Functions of pituitary gland hormones Immunoglobulins Long Question on (ANY ONE): Q.3 (15)a) What is glycolysis? Describe the pathway of glycolysis. Give its energetics in detail. b) Describe the urea cycle. Write a note on uremia. SECTION-III **BIOPHYSICS**) 0.4 Write short notes on (ANY THREE): (15)State and explain bernoulli's principle in streamline flow. a) What is hypermetropia? How it can be corrected. b) Define unit of length, mass and time Explain the physiological effect of heat **Q.5** Long Question on (ANY ONE): (15)a) Describe in detail the CT scan and the MRI with it's principle. b) State the Newton's law of gravitation. Show that F = ma, State its application.