



## **BRAINWARE UNIVERSITY**

## Term End Examination 2022 Programme – B.Sc.(MRIT)-2022 Course Name – Clinical Biochemistry & General Pathology Course Code - BMRITC102 ( Semester I )

Full Marks: 60 Time: 2:30 Hours
[The figure in the margin indicates full marks. Candidates are required to give their answers in their

own words as far as practicable.]

Group-A (Multiple Choice Type Question) 1 x 15=15 1. Choose the correct alternative from the following: (i) Gama-Gandy bodies are typically developped in chronic venous congestion of a) Lung b) Kidney c) Spleen d) Liver (ii) Write the application of Autoclave used for sterilization a) Principle of autoclave b) Application in diagnostic lab (iii) Surface antigens on live cells can be interpreted by a) RIA b) ELISA c) Electrophoresis d) Both a and b (iv) The major treatment of Lead poisoining a) Chronotherapy b) Chelation Therapy c) Lead replacement d) Chemotherapy (v) Chronic poisoining involves a) Multi-organ failure b) Targeted organ failure c) blood loss d) Numbness (vi) The compound used for Chelation Therapy

a) Heparin b) Tetracycline c) EDTA d) All of these

(vii) What solution is used to maintain sterility in labs?

a) Sodium chloride b) Sodium cyanide c) Sodium hypochlorite d) Sodium sulphate (viii) Autoclaves are used in the medical applications to perform \_\_\_\_\_\_

a) Vulcanization b) Sterilization

c) Heating d) Cleaning

(ix) Propose the phagocytic cell in brain

a) Microglia b) Ependymal cell c) Oligodendrocytes d) Astrocytes

(x) In most laboratories the commonest test performed to estimate plasma glucose is :

a) Folin Wu test b) Fehling's test

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/:	c) Hexokinase test	d) Benedict test		
(XI	xi) Rise in blood urea in pre-renal cases in mainly due to:			
	a) Dehydration	b) Multi organ failure		
(xi	c) Due to renal failure  ) Decreased BUN	d) Increased urea synthesis		
	a) Severe stress	b) Myocardial infraction		
	c) Diabetic ketoacidosis	d) Celiac disease		
(xii	(xiii) In order to stop the reaction between enzyme and substrate, what process is needed			
	a) Incubate the sample at 100oC	b) Add Stop solution		
	c) Wash sample with PBS-Tween	d) Add blocking solution to sample		
(xiv	(xiv) What is the role of goat anti-rabbit IgG horseradish peroxidase conjugate in the experiment?			
	a) Antigen	b) Primary antibody		
	c) Secondary antibody	d) Substrate		
(xv	) Which is working principle of ELISA?			
	a) Ag-Ab neutrilization	b) Ag-Ab complex		
	c) Ag-Ab neutrilization & Ag-Ab complex	d) None of these		
Group-B				
(Short Answer Type Questions) 3 x 5=15				
2.	2. Differentiate between water bath and incubator			
	. Illustrate the tissue sectioning process and its application.			
	4. Elaborate the zinc toxicity and its preventation			
5. \	5. Write about the types of the stages of shock with examples.			
6. Explain RIA and its clinical significance			(3)	
OR				
	Explain how to assess the glycosuria patient by urine analysis (3)			
Group-C				
(Long Answer Type Questions)			5 x 6=30	
7.	7. Categorize the types of hemodynamic shock in the patients.			
8.	Evaluate the Kidney Function TEST and interpret it.		(5)	
9.			(5)	
10. Explain the clinical significance of CK-MB in pathogenesis.			(5)	
11. Explain Inflammation with symptoms.			(5)	
12. Explain the pathophysiology of myocardial ischemia with a diagram.			(5)	
	<b>O</b> Deduce the mechanism of wound healing.	ĸ	(5)	
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