



## **BRAINWARE UNIVERSITY**

## Term End Examination 2024-2025 Programme – B.Sc.(MRIT)-2022/B.Sc.(MRIT)-2023/B.Sc.(MRIT)-2024 Course Name – Clinical Biochemistry & General Pathology Course Code - BMRITC102 ( Semester I )

Full Marks : 60

Time: 2:30 Hours

1 x 15=15

[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. Choose the correct alternative from the following: (i) Microtitre Well Plate is composed of: a) Polypropylene b) Poly vinyl Chloride c) Polystyrene d) Nylon (ii) SLE is primarily categorized as: a) Metabolic disorder b) Autoimmune disorder c) Infectious disease d) Genetic disorder (iii) The levels of Sodium & potassium are recorded in : a) Semi auto Analyzer b) Cell Counter c) Ion selective electrode (ISE) d) None of these (iv) Identify below the toxicity can occur due to single exposure. a) Acute toxicity. b) Sub acute toxicity. c) Sub chronic toxicity. d) Chronic toxicity. (v) Which gland mainly controls and regulates the actual thyroid activity? a) Pituitary gland b) Hypothalamus c) Parathyroid d) Both A and B (vi) Name the condition marked by a low TSH? a) Hypothyroidism b) Hyperthyroidism d) Thyroid Cancer

(vii) Choose the most common malignant tumor found in Indian male:

(ix) Predict the durable material that is used to make glasswares:

(viii) Choose the proper explanation of necrosis

a) Cellular degenaration

c) Death of single cell

a) Liver

c) Lung

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b) Prostate

d) Oral cavity

b) Death of group of cell

d) Reversible cell damage

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	a) Polythelene c) Borosilicate	b) Soda lime Parasat, d) Polystyrene	Kcikata -700125	
(x)	Cancer in plasma cell is identified as:			
	a) Carcinoma	b) Sarcoma		
(vi)	c) Adenoma State the medical imaging technique that is of	d) Myeloma  from used to guide needle hionsie	s:	
(^1)	a) X-Rays	b) Ultrasound		
	c) MRI	d) CT Scans		
(xii)	In order to stop the reaction between enzyme	S-1.	eeded?	
(xiii	a) incubate the sample at high temperature c) wash the sample with PBS and Tween What is tracer in radioimmunoassay?	<ul><li>b) Add the strong acid to the s</li><li>d) Add blocking sample</li></ul>	ample	
	a) Radioactive antigen	b) Unlabeled antigen		
c) Rediolabeled antibody (xiv) In acute inflammation, which events occur in the		d) Unlabeled antigen		
(AIV)	2)	b) transient vasoconstriction, i	ncrossed	
	flow, increased permeability, vasodilation	permeability, vasodilation, s flow		
(xv)	c) vasodilation, increased permeability, stasis of blood flow, neutrophil accumulation Embolism can be defined as:	d) neutrophil accumulation, va increased permeability, stas		
	a) A type of bacteria c) A heart disease	<ul><li>b) A blockage caused by a trave</li><li>d) A skin rash</li></ul>	eling clot	
		oup-B	2 5 - 45	
	(Short Answer	Type Questions)	3 x 5=15	
<ol> <li>Define hypertrophy and state its physiological significance.</li> <li>Write a short note on sandwich ELISA.</li> </ol>				
4. Mention about the basic working principle of colorimeter.			(3) (3)	
5. Classify necrosis with examples.			(3)	
6. Analyse based on which characteristic features physician can confirm about systemic luerythematosus.			nic lupus (3)	
	Albanes va - Alba	OR Comments	Contractor of	
Α	nalyze the features by which physician can assu	ime for autoimmune diseases.	(3)	
	yanaza interpreta Gro	oup-C		
		Type Questions)	5 x 6=30	
	St. of Control of the	manda com come	be ending by	
	Differentiate apoptosis and necrosis.		5 - Final (5)	
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9. Define free radical and explain how it triggers the cell injury. We determine the second s				
	10. Analyze the principle based which Centrifugation works to separate particles.  11. Explain: chronic inflammation is the unregulated outcome of acute inflammation.  (5)			
	Summarize the mode of carcinogenesis by gene			
	Assess the mode of spared of tumors.		(5)	
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