D 91151	(Pages: 2)	Name			
Reg. No FOURTH YEAR B.Sc. DEGREE (PARAMEDICAL COURSES) EXAMINATION NOVEMBER 2020					
	Medical Biochemistry				
Paper XV—ORGANISATION OF CLINICAL LABORATORY AND LABORATORY MANAGEMENT					
, , , , , , , , , , , , , , , , , , ,	(2012 Admissions)	Maria and 100 Marila			
Time: Three Hours		Maximum: 100 Marks			
Answer any two questions.					
Essays:		, O'			
1. Give an account of Automation	n in Biochemistry laboratorie	S.			
2. Name the various methods for the determination of blood glucose. Describe in detail about any <i>one</i> of them.					
3. Discuss in detail about Reference Values and Observed Values.					
Ar	nswer any \mathbf{two} of the following	$(2 \times 15 = 30 \text{ marks})$			
	ochemes (DQAO).				
5. Determination of Blood Urea.	•				
6. Levy Jening's (LJ) Chart.	nswer any ten of the followir	$(2 \times 10 = 20 \text{ marks})$			
	·	ıg.			
7. Fractions obtained in paper el	ectrophoresis of serum.				
8. Photoelectric Colorimeter.					

9. Care of infected specimens.

Circadian Variations.

12. Plasma Lipid Profile.

10. Sodium Fluoride.

Turn over

- 13. Quality Control.
- 14. Specificity of a test.
- 15. Determination of Potassium Content in blood serum.
- 16. Usefulness of urine preservatives.
- 17. Stock reagents.
- CHWK LIBRARY UNIVERSITY OF Laboratory First Aid.

 $(10 \times 5 = 50 \text{ marks})$

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FOURTH YEAR B.Sc. (PARAMEDICAL COURSES) DEGREE EXAMINATION NOVEMBER 2020

Medical Biochemistry

Paper XIV—DIAGNOSTIC BIOCHEMISTRY—II (Organ Function Tests)

(2012 Admissions)

Time: Three Hours

Maximum: 100 Marks

Essays (Answer any two):

- 1. Detoxification functions of the liver.
- 2. Abnormal constituents of urine.
- 3. Renal stone analysis.

 $(2 \times 15 = 30 \text{ marks})$

Write briefly on any two of the following:

- 4. Markers of myocardial infarction.
- 5. Oral glucose tolerance test.
- 6. Glycated haemoglobin.

 $(2 \times 10 = 20 \text{ marks})$

Answer any ten of the following:

- 7. Estimation of thyroid hormones.
- 8. Specific gravity of urine.
- 9. Cystatin.
- 10. Vanden bergh reaction.
- 11. Pentagastrin test.
- 12. Reducing sugars in urine.
- 13. Radioactive iodine uptake.
- 14. Albumin globulin ration.
- 15. Galactose tolerance test.
- 16. Tests for tubular function of the kidney.
- 17. Urinary urobilinogen in the differential diagnosis of jaundice.
- 18. Estimation of creatinine in urine.

 $(10 \times 5 = 50 \text{ marks})$

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FOURTH YEAR B.Sc. (PARAMEDICAL COURSES) DEGREE EXAMINATION APRIL 2021

Medical Biochemistry

Paper XV—ORGANISATION OF CLINICAL LABORATORY AND LABORATORY MANAGEMENT

(2012 Syllabus)

Time: Three Hours

Maximum: 100 Marks

Essays. Answer any two.

- 1. Define preanalytical variables. Discuss its types.
- 2. Enumerate any two methods for the determination of serum proteins. Describe in detail about any one of them.
- 3. What do you understand by Quality Control (QC)?

 $(2 \times 15 = 30 \text{ marks})$

Answer any two of the following.

- 4. Quality control charts (any one of them).
- 5. Total Quality Management (TQM).
- 6. Determination of SGPT and SGOT.

 $(2 \times 10 = 20 \text{ marks})$

Answer any ten of the following.

- 7. Suedberg unit (s).
- 8. Colorimetry.
- 9. Diagrammatic approach of Folin-WU tube.
- 10. Transport of specimens to a reference laboratory.
- 11. Ethylene Diamine Tetra Acetic acid (EDTA).
- 12. Reference values in clinical diagnosis.
- 13. Percentile of the reference distribution.
- 14. Control material in quality control process.
- 15. Determination of Serum amylase.
- 16. Buffer capacity.
- 17. Prognostic limit.
- 18. Storage and preservation of specimens of plasma or serum.

 $(10 \times 5 = 50 \text{ marks})$

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			Reg. No
FOUI	RTE	I YEAR B.Sc. PARAMEDICAL COURSES EXAM	G
		Medical Biochemistry	· ·
	Par	per XIV—DIAGNOSTIC BIOCHEMISTRY—II (ORGAN	FUNCTION TESTS)
	•	(2012 Syllabus)	
Time ·	Thi	ree Hours	Maximum : 100 Marks
		eays. Answer any <i>two</i> of the following :—	Maniman . 100 Maria
Δ.		Creatinine clearance.	
		Abnormal constituent of urine.	
		Liver function tests based on abnormalities of bile pigme	ent, metabolism
	Ū	Enter random topid subod on assistmantics of sine pigni	$(2 \times 15 = 30 \text{ marks})$
II.	Wr	ite briefly on any two of the following:—	
	4	Prothrombin index.	O'
	5	Tests based on thyroid function.	i
	6	Glycated haemoglobin.	
		5	$(2 \times 10 = 20 \text{ marks})$
III.	Ans	swer any ten of the following:—	
	7	Specific gravity of urine.	
	8	Pentagastrin stimulation test.	
	9	Lundh meal.	
	10	Titratable and total acidity of gastric juice.	
	11	Test for amino acids in urine.	
	12	Plasma proteins.	
	13	Estimation of creatinine in urine.	
	11	Radioactive iedine untake	

 $(10 \times 5 = 50 \text{ marks})$

15 Thyroid antibodies.

17 Reducing sugars in urine.

19 Tests for detection of urobilinogenin urine.

16 Lipid profile.

18 Cystatin.