

2019/TDC/ODD/SEM/CHMSEC-301T/137

TDC (CBCS) Odd Semester Exam., 2019

CHEMISTRY

(3rd Semester)

Course No.: CHMSEC-301 T

(Analytical Clinical Biochemistry)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

GROUP—A

Answer **three** questions from each Unit from this Group

UNIT-I

- "Glycolysis can take place with or without oxygen." Write true or false.
 How many molecules of ATP are produced in glycolysis?
 Whether the alcoholic fermentation by yeasts is an aerobic process or an anaerobic process?
- 4. What is the full form of NADH? 1
 20J/1170 (Turn Over)

	erou moul to Unit—II	15.	What are major constituents of urine?	1
	What are the different classes of protein?	16.	What is anaemia?	1
	What is meant by 'active site' of an enzyme?	1	V—TINU V—TINU A Discuss the effect of per compare analysis.	2
	What is coenzyme?	1 17.	What is the normal range of creatinine in blood?	1
8.	What is meant by denaturation of protein?	1		
	Plika A Otte 20	18.	What does a high level of urea in blood indicate?	5
	INTELII		shares to recount tomeration of education &	5
	MIT-III III III III III III III III III I	19.	What is bilirubin?	1
9.	What are lipids?	1		
	A=91109(D	20.	What is the normal range of cholesterol in	
10.	Draw the structure of cholesterol.	1	blood?	1
11.	What is lipoprotein?	1	E, to bx (k	
	f752f		GROUP—B	
12.	Provide one example of steroid hormone.	-1	Answer one question from each Unit from this Group	2
I	oxygen." Write train or take.	30	Unrt—I	
	ni bezuberg en Transa aslaman yesan er d	2	OMI—I	
1	UNIT—IV	21.	Provide the important functions of o	
13.	Which vitamin is important for blood coagulation?	£ 1	carbohydrate.	2
	s in interpretation of the same of stranger	22.	What are the microbes used in ethanol	
14.	. What are the important functions of blood?	1	fermentation? What is/are the byproduct(s)	ed.
1	SHOWN form, fit that on a secret W	本	of this process?	2
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- 23. What are the α -helix and β -pleated sheet structures of protein?
- 24. Discuss the effect of pH on enzyme activity. ni eninitaem le egne, liamon ada si

UNIT-III

- 25. How are lipids classified? Provide example.
- 26. Mention the biochemical functions of steroid hormones.

UNIT-IV

- 27. What are the different methods of collection of blood sample?
- 28. How is the urine sample preserved for pathological analysis?

UNIT-V

- 29. How is the information of blood sugar (fasting and PP) clinically interpreted?
- 30. How is bilirubin in blood analyzed pathologically? The total Succession of

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(Continued)

GROUP-C

UNIT-I

31. Discuss the process of glycolysis.

How is the Astimation Or other

the lactic acid fermentation Visualize process.

UNIT-II

32. How can proteins be isolated and c-Scharacterized? 6 2 5 to applicant to header2+3=5

Or

How are enzymes classified? Provide an account on the mechanism of enzyme action. 2+3=5 transition is resident to the second of the second in the second i

5

UNIT-III

33. What is triglyceride? Provide an example (with structure). What important biological role they play? What is the effect of high level of triglyceride in the blood stream of human?

1+1+2+1=5

Or

Provide an account of important biological function played by hormones.

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(Turn Over)

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(6)

UNIT—IV

34. Discuss the composition of blood. How is blood preserved after collection? 3+2=5

Distince the process $_{70}^{\circ}$ givenging

How is the estimation of clinically important constituents of urine performed?

5

UNIT-V

35. What are the clinically important parameters of blood analysis (routine)? Provide the method of analysis of any one of them. 2+3=5

Or

What is the need of estimation of urea in blood? What is its normal range? What does it indicate if the observed value is higher or lower than the normal range?

2+1+2=5

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