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06 OCT 202

THE OPEN UNIVERSITY OF SRI LANKA FACULTY OF HEALTH SCIENCES DEPARTMENT OF MEDICAL LABORATORY SCIENCES AMMATION DA

ACADEMIC YEAR 2020/2021 - SEMESTER II BACHELOR OF MEDICAL LABORATORY SCIENCES (BMLS) HONOURS MDU4303 - CLINICAL BIOCHEMISTRY II - LEVEL4 **DURATION: 03 HOURS** FINAL EXAMINATION

DATE:06TH OCTOBER 2022

TIME: 09.30 AM -12.30 PM

Index no:



	INDEX NO:				
PART	B – Structured Essay Questions (40 marks)				
l. Sei	. Serum/ plasma proteins are mainly synthesized by the liver. Plasma contains at least				
12:	5 individual proteins.				
1.1.	List three (03) significant functions of proteins.	(03 marks)			
I.					
II.					
III.					
1.2.	List four (04) possible causes of elevation of proteins in serum.	(02 marks)			
I.					
II.					
III.					
IV.					
1.3.	Briefly describe the application of immunochemical methods in ass	sessment of serum			
		(05 marks)			
_	otein levels.	,			
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• • • • • • • •	and the second s	· · · · · · · · · · · · · · · · · · ·			

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		(Total: 10 Marks)			

2. Abnormal accumulation of body	fluids occurs in different disease conditions which
	can be categorized into transudates and exudates.
	used to differentiate transudate from exudate except (01 mark)
I	· ·
	e conditions that lead to formation of transudates and
	reason for formation of transudates in each condition
that you mentioned.	(04 marks)
. Underlying disease conditions	Physiological reason
	,
2.3. Briefly describe how appearan	ice, glucose level and cell counts can be used to
differentiate transudate from exudate	
	(vs marks)
······································	•••••••••••••••••••••••••••••••••••••••
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	(Total: 10 Marks)

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		INDEX NO:
3. A	series of tests can be performed on	a stool (or fecal) sample to help diagnosis of
	rtain conditions affecting the digestiv	
3.1.	List five (05) constituents of normal fe	eces. (2.5 marks)
I.		
II.		
III.	· · · · · · · · · · · · · · · · · · ·	
IV.		
V.		
3.2.	List five (05) parameters assessed in t	ne chemical analysis of stool samples.
		(2.5 marks)
I.		
П		
III.		
		·
3.3.	Briefly describe the term "osmotic dia	
	•	and the second of the second o
·- • • • • • • •		
		(Total: 10 Marks)

4. I	Iormonal, psychosocial and immunological factors may affect the fertil	ity of
f	emales.	
4.1.	List two (02) examples for each of the following mentioned conditions (02 n	narks)
4.1.1	. Disorders of hormonal metabolism	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
I		
II		
4.1.2	. Uterine factors	
I.		
. II.		
4.2.	List three (03) techniques can be used to detect ovulation. (03 m	
I.		
II.		
III.		•••••
4.3.	Write a short description on one method that you mentioned in 4.2. (05 n	narks)
• • • • • • •		
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• • • • • • •		
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	(Total: 10 Mar	ks)

	INDEX NO:				
PA	ART C – Essay Question (30 Marks)				
1.	Write an essay on "specimen collection and handling of cerebrospinal	fluid". Do not			
	include steps of specimen collection in your answer.	(15 marks)			
2. Write an essay on "structure of normal spermatozoa" with the aid of an illustr					
		(15 marks)			

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 $\mathcal{L}_{\mathcal{A}}(\mathbf{x}) = \{(\mathbf{x}, \mathbf{x}) \mid \mathbf{x} \in \mathbf{x}\}$