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I-MBBS

01113A3+01113A4

(This paper consists of 2 pages) First M.B.B.S. (Main) Examination (New Scheme) February - 2021

Biochemistry

Paper- II

Time: Three Hours Maximum Marks: 100

Attempt all questions in both sections

(Use separate answer book for each section)

	Section	n-A		
1. Fill in the blanks:				6 x 1 = 06
a) SDA value for proteins	is	·		
b) Blood Urea Nitrogen =				
c) The jumping genes are	also called /			
d) The guardian of the go	enome is			
e) In Eukaryotes the mR			y enzyme	·
f) The names of two ligh	t chains of Ig are _	and _		
				4 x 1 = 04
A) Western blotting tech		W - 1		
a) Protein	b) RNA	c) DNA	d) All	
B) Tumour marker used	for the diagnosis a	and management of o	varian cancer:	
a) TPA	b) PSA	c) CA-125	d) VMA	
C) Xeroderma Pigmento	sum occurs due to	defect in:		
a) Base excision repair		b) Double strand break repair		
c) Nucleotide excision repair		d) Mismatch rep	pair	
D) Monoclonal antibod	ies are prepared by	y cloning:		
a) Myeloma cells		b) Hybridoma c	ells	
c) T-lymphocytes		d) B-lymphocyt	es	
3. Clinical Case Study: A two findings shows serum bilirub			nd to be icteric.	Laboratory 5 x 3 = 15
 a) What is the probable diag 	nosis?			
b) What are the precursors	of bilirubin and wh	nat are different types	of bilirubin?	
c) Which type of bilirubin is	high in this disease	e? ·		
d) What can be the enzyme	defect in this dise	ase? .		
e) How is the above disease	treated?			
4. Write short notes on (Any five):				$5 \times 2 = 10$
a) Protein-Energy male	nutrition			
b) Reactive Oxygen sp	ecies			

c) Disorders associated with Collagen



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- a) Applications of PCR
- e) MHC
- f) Clearance test
- 5. Explain briefly (Any three):

3 x 5 = 15

- a) Lac Operon
- b) BMR
- c) Post transcriptional modification
- d) Cytochrome P-450 medicated biotransformation

Section-B

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- b. Give an account with illustrations on Translation in prokaryotes with its inhibitors. Add a note
- · on post-translational modifications.

20

7. Explain Why (Any five):

 $5 \times 2 = 10$

- a) Immunity is both a boon and evil.
- b) Serum creatinine is more sensitive parameter than urea for assessing renal functions.
- c) Why restriction Endonucleases are called molecular scissors.
- d) Folate antimetabolites are used as anti-cancer agents.
- e) Vegetarian diet is helpful in controlling cholesterol.
- f) Genetic code is degenerate.
- 8. Explain briefly (Any four):

 $4 \times 5 = 20$

- a) Anti oxidant enzymes.
- b) Tumour markers.
- c) Structure of immunoglobulins.
- d) Human genome project.
- e) Mutations.