## MBBS: Biochemistry Paper 1 Part 1 ABVMUUP Paper Code: 211 21 30003

Q1. Describe the phases of activation; initiation; elongation and termination of protein biosynthesis with add a note on inhibitors of translation. (20 marks) Q2. Write briefly on: (4X5=20 marks) (a) Structure and function Immunoglobulin (b) Polymerase chain reaction (c) Liver Function Test (d) Recombinant DNA technology Q3. Multiple choice questions. (1X10=10 marks) a) The number of hydrogen bonds between guanosine and cytosine in DNA are: B. Two C. Three A. One D. Four b) Which one of the following nucleotide base is not present in codons? A. Adenine B. Guanine C. Thymine D. Cytosine c) One of the plasma proteins listed below is not a transport protien A. Transferrin B. Haptoglobin C. Albumin D. Alpha-1-antitrypsin d) Cardiac arrest may occur due to overdoses of A. Sodium B. Potassium D. Magnesium C. Zinc e) Adenosine deaminase (ADA) deficiency leads to: A. Severe combined immunodeficiency (SCID) B. Orotic aciduria C. Gout D. Lesch-Nyhan syndrome f) The major fuel for the brain after prolonged starvation is: A. Glucose B. Fatty acids C. Ketone bodies D. Glycerol g) In compensated metabolic alkalosis A. Respiratory center is stimulated B. pCO2 increases D. Urine becomes acidic A. pO2 elevated h) All the following laboratory data are suggestive of acute renal failure, except; A. Plasma sodium-150mmol/L B. Plasma potassium -5.6mmol/L C. Urea- 220mg/dl D. Creatinine-3.2mg/dl i) Which of the following is not a point of care test (POCT): A. ABG analysis B. Plasma electrolytes C. Plasma glucose D. Plasma protiens j) Immunosorbent assays will use antibody conjugated to all the following reagents, Except: A. Alkaline phosphatase (ALP) B. Horse radish peroxidase (HRP) C. Riboflavin D. Biotin

## MBBS: Biochemistry Paper 2 Part 2 ABVMUUP Paper Code: 211 22 30003

Q1. Give an account of sources, chemistry, functions, RDA and deficiency manifestations of ascorbic acid (Vit. C) & Vit. B12. (20 marks)

Q2.	Write briefly on (4X5=20) a) Glycogen storage diseases c) Tumor markers		<ul><li>b) Detoxification by conjugation</li><li>d) Biological effects of glucocorticoids</li></ul>			
Q3.	Multiple choice questions (1X10=10) a) Branched chain keto acids are excreted A. Phenylketonuria C. Tyrosinosis		ł in urine in large quantities in B. Maple syrup urine disease D. Hartnup's disease			
	b) Cholecalciferol is syn A. Liver B.	thesized in . Skin	C. Kidney	D. Intest	inal mucosa	
	c) Vitamin K is inhibited A. Isoniazid (INH)	by B. Methotrexa	ate C. Dico	umarol	D. Avidin	
	d) Basal metabolic rate A. Fever B.	is increased by all Thyroxine	the following, EX C. Starvation	CEPT n D.	Cold climate	
	<ul> <li>e) All the following dise</li> <li>A. Grave's disease</li> <li>C. Depressive psycho</li> </ul>	ases may be asso osis	ciated with obesity	γ, EXCEPT B. Cushin D. Diabet	g's syndrome tes mellitus	
	<ul><li>f) Which is a feature of hypothyroidism?</li><li>A. Decreased T3 level in blood</li><li>C. Weight loss</li></ul>		B. De D. Inc	B. Decreased TSH levels D. Increased basal metabolic rate		
	<ul><li>g) Oncogenes may be activated by all, EXC</li><li>A. Viral infection</li><li>C. Mutations in proto-oncogene</li></ul>		EPT B. Promotor insertion D. Reverse transcriptase			
	h) All the following horr A. Insulin	nones have mem B. Epinephrine	brane receptors, E C. Glucago	XCEPT	D. Thyroxine	
	i) Which is an anticance A. Zidovudine	er drug? B. 6-mercaptopur	ine C	2. Allopurinol	D. Acyclovir	
	<ul><li>j) Which has the highest</li><li>A. Glucose</li></ul>	t calorific value? B. Palmitic acid	l C. Alb	umin	D. Ethanol	
31 J	an 2022				Max marks 50	