(c) Both a and b.

(c)  $CO_2$  and  $NH_4+$ .

(c) 5' - 3' exonuclease.

(a) Serine.

(a) 5'— 3' pol.

6 The products of glycinesynthesis reaction is:

7 Proof reading is \_\_\_\_ activity of DNA polymerase.

(d) Phenylalanine.

(b) Acetoacetate.

(b) 3'-5' exonuclease.

(d) 3'-5' endonuclease.

(d) Fumarte.

Turn over

8 Which among the following is an inhibitor of transcription ?				
(a)	Actinomycin D.	(b)	Puromycin.	
(c)	Tetracycline.	(d)	Cycloheximide.	
9 Ochre codon is:				
(a)	UAA.	(b)	UAG.	
(c)	UGA.	(d)	AUG.	
10 Antihaemorrhagic factor is:				
(a)	Vitamin D.	(b)	Vitamin A.	
(c)	Vitamin E.	(d)	Vitamin K.	
11 Hormone produced by adrenal medulla.				
(a)	Glucogon.	(b) I	Epinephrine.	
(c)	Glueocorticoid.	(d) 7	Γhyroxine.	
12 Iron transport protein is:				
(a)	Ferritin.	(b)	Transferin.	
(e)	Cetuloplasmin.	(d) N	None of these.	
II. Answer all <i>nine</i> questions:				$(12 \text{ x} \frac{1}{4} = 3 \text{ weightage})$
13 Name the fat soluble vitamins.				
14 What is a coding strand ?				
15 What are transcription factors ?				
16 What is Shine Dalgarno sequence ?				
17 Write a biochemical reaction involiny NADP.				
18 What are secondary plant products ? Give examples.				
19 What is deamination? Give example.				
20 What are Kotogenic aminoacids? Give example.				
21 What are ribozymes? Give example.				
	one onempre.			(0 1 0 1 1
III. Answer any <i>five</i> questions from seven:				$(9 \times 1 = 9 \text{ weightage})$
${f ^{22}}$ Describe the digestion and absorption of fat.				
23 Briefly describe the physiological functions of phospholipids.				

- 24 Describe the structure of tRNA.
- 25 Describe the post translational modifications of proteins.
- 26 Write the mechanism of action and site of synthesis of (a) thyroxine \$\\$(b)\$ Insulin.
- 27 Write the physiological role of (a) Ca; (b) Iodine.
- 28 Describe the role of different RNAs in protein synthesis.

 $(5 \times 2 = 10 \text{ weightage})$ 

- W. Answer any two questions from three:
  - 29 Write note on fatty acid synthase and describe its role in the synthesis of fatty acids.
  - 30 Describe the metabolism of Phenylalanine.
  - 31 Describe the physiological function, dietary requirement and deficiency diseases of !
    - (a) Vitamin C.

(b) Vitamin B1.

(c) Pyridoxine.

 $(2 \times 4 = 8 \text{ weightage})$