(i) P	rinted Pages: 3 Roll No			
(ii) (	Ouestions :9 Sub. Code: 0 2 5 5			
(-)	Exam. Code: 0 0 3			
B.A./B.Sc. (General) 3 <sup>rd</sup> Semester				
	Illust, as hipsymbol 1125 are and its regulation.			
	BIOCHEMISTRY Paper–B: Protein and Nucleic Acid Metabolism			
Time A	llowed: Three Hours] [Maximum Marks: 36			
Note:-	Attempt 5 questions in all. Question No. 1 is compulsory. Select any <b>one</b> question from each of the <b>four</b> Sections. All questions in each Section carry equal marks.			
1. (a	Name the pathway leading to formation of niacin from tryptophan.			
(1	Name the enzyme required for conjugation of Bilirubin.			
(0	Parkinson's disease is associated with decreased synthesis of			
(0	The color reaction given by aromatic amino acids is			
(6	The disease due to lack of synthesis of pigment melanin is			
(1	Name the enzyme of purine metabolism associated with immuno deficiency disease.			
(1	The parent nucleotide formed during biosynthesis of purines is			
vood (	n) The enzyme defect in acute intermittent porphyia is			
	mellodatum entitivo on Nd-onioleyo zeusaid. (d) 1×8=8			

## SECTION-I

2.	Wri	te short notes on:	
	(a)	Transamination	
	(b)	Ammonia toxicity.	4+3
3.	Exp	lain briefly:	
	(a)	Rate limiting step of Urea cycle	
	(b)	Oxidative deamination.	4+3
		es- Attempt 5 questions in all. Ouestion No. 1 is compulsor	
	anois	SECTION-II	
4.	(a)	Give an account of specialised products of glycine.	
	(b)	Describe the synthesis of S-adenosyl methionine a	nd it
		transmethylation reactions.	4+3
.5.	(a)	Discuss the metabolism of tyrosine.	
	(b)	Briefly explain Phenylketonuria.	4+3
		SECTION-III	
6.	(a)	Describe the formation of glulathione and its significance	ce.
	(b)	Briefly describe glutamate synthesis and its products.	4+3
7.	(a)	Describe the synthesis of creatine and its role in the bo	dy.
	(b)	Discuss cysteine-homo cysteine metabolism.	4+3

## SECTION-IV

- 8. (a) Describe the degradation of purine nucleotides.
  - (b) Mention the compounds that contribute to formation of purine ring. 4+3
- 9. (a) Illustrate biosynthesis of heme and its regulation.
  - (b) Write a note on obstructive Jaundice. 4+3