

Instructions: Section I: Answer any three (3) questions out of eight (8)			
Section II: All questions are compulsory			
Illustrate your answers with neat diagrams/figures wherever necessary			
SECTION - I			Marks
Answer any three (3) questions			
1	A	What is natural pigment? Give general classification of pigments.	[7]
	B	Discuss acidic and basic hydrolysis of chlorophyll.	[7]
2	A	Discuss the reductive degradation of haemin with hydroiodic acid and acetic acid. Give synthesis of anyone degraded product.	[7]
	B	Explain the presence and position of sugar residue in anthocyanin with suitable examples.	[7]
3	A	Give the evidence for the nature of hydroxyl group and nitrogen atom in morphine.	[7]
	B	Prove the structure of quinine with supporting evidence.	[7]
4	A	Write the synthesis of vitamin H.	[7]
	B	Prove the structure of vitamin E with supporting evidence.	[7]
5	A	Classify sex hormones with example and give synthesis of progesterone.	[7]
	B	What are steroids? Discuss general biosynthesis studies of steroids.	[7]
6	A	Write and explain partial synthesis of cortisone.	[7]
	B	Discuss the chemistry of bile acids.	[7]
7	A	What are steroids? Classified them.	[7]
	B	Give evidence for the position of carboxylic group in abietic acid and write degradation product of gibberellic acid.	[7]
8	A	Discuss the chemistry and synthesis of farnesol.	[7]
	B	Give evidence for the position of angular methyl group in abietic acid and give synthesis of squalene.	[7]
SECTION - II			
9	Answer the following questions (1 mark each)		[8]
	A	Draw the structure of dipyrrol methane.	
	B	What happened when flavone is fused with KOH?	
	C	Give structure of codeine.	
	D	Write Weerman test.	
	E	How the double bonds in Ergosterol are determined?	
	F	What is the other name of bile acid?	
	G	What is isoprene rule?	
	H	Draw the structure of homoretene.	