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NTK/KW/15 - 6988

Fourth Semester Examination for the Degree of Bachelor of Pharmacy

PHARMACEUTICAL CHEMISTRY-IV

Heterocyclic and Macromolecules

Paper - 4T2

Time: Three Hours]

[Max. Marks: 80

- N. B. : (1) Question No. 1 is Compulsory.
 - (2) Solve any four questions from the remaining.
 - Draw neat labeled diagram wherever necessary.
- 1. Comments on the following (any five) :-
 - (a) Importance of heterocycles in Pharmaceutical Sciences.
 - (b) Interconversion of glucose to fructose.
 - (c) Cycic structure of monosaccharides.
 - (d) Synthesis of Alpha amino acids.
 - (e) Pschore synthesis of pheanthrene.
 - (f) Pyridine is stronger base than pyrrole.
 - (g) Saponification value of fats. 5x4=20
- 2. Give preparation, properties and uses of the following:
 - (i) Imidazole.
- (ii) Pyridine.
- (iii) Furan.

15

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Contd.





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3.		uss synthesis, properties and biological imp Quinoline and purine.	ortance 15
4.	(a)	Give synthesis and important propert Naphthalene.	ties of
	(b)	Discuss various characteristics values u identify and detect adulteration in fixed of fats.	
5.	(a)	Discuss structural elucidation of sucr diasaccharide.	ose as
	(b)	Explain oxidative reactions in monosaccha	aride. 7
6.	(a)	Define and classify amino acids with structures.	suitable 8
	(b)	Discuss various methods for synthesis of eptides.	polyp-
7.	(a)	Write short notes on (any three) :-	
		(i) Mutarotation.	
		(ii) Epimerization.	
	1	(iii) Phospholipids.	
		(iv) Glycosides.	3x5=15

2

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