(REVISED COURSE)

QP Code: 51717

Tim	ie: (2 ¹ / ₂ Hours) Total Marks: 75	Total Marks: 75	
NOT	 E: 1) All questions are compulsory. 2) Figures to the right indicate full marks. 		
Q.1	 a) How are the drugs classified on the basis of their therapeutic action? Give one example of each class. OR a) What are the different routes of drug administration? Give the schematic representation of transfer of drugs to the various sites. 	e 5 5	
	 <u>Answer any two of the followings.</u> b) i) Explain the terms Analgesics and Antipyretics. ii) Give the synthesis of Paracetamol. c) What is mean by drug dose? Explain any five doses forms with suitable 	3 2	
	example.d) i) What are the requirement of an ideal drugs?ii) Define LD₅₀ and ED₅₀.	5 3 2	
	e) i) Explain the concept of Sedation, Hypnosis and Anesthesia.ii) Give the synthesis of Trimethadione.	3 2	
Q.2	 a) Give the synthesis, use and side effects of Levodopa. OR a) Give the synthesis and use of Aceclofenac. 	5 5	
	 Answer any two of the followings. b) What are cardiovascular drugs? Give the synthesis, use and side effects Atenolol. c) What are different types of Diabetes? Describe insulin therapy. d) Give the synthesis, use and side effect of Cetirizine. e) Give an account of drugs used for respiratory system. 	of 5 5 5 5	

Q.3	a) Explain natural dyes with suitable examples and give limitations of natura dyes.	մ 5
	OR	
	a) State the important landmarks in the historical development of synthetic dyes.	5
	Answer any Two of the following.	
	b) Give one example with structure of the following classes of dyes.	5
	i) Nitro dyes	
	ii) Nitroso dyes	
	c) i)What is Colour Index? What do the suffixes L and R indicate?	3
	ii) Write the structure of the following dyes.	2
	i) Capri Blue	
	ii) Naphthazarin	
	c) i) Write short note on Disperse Dyes.	3
	ii) Classify the following dyes on the basis of chemical constitution.	2
	1) Rhodamine 6G	
	2) Indigo Carmine	
	d) i) Discuss Azoic Dyes giving suitable example.	3
	ii) Classify the following dyes on the basis of application.	2
	1) Orange II	
	2) Methyl Violet	
	e) i) Write the characteristic properties of a good dye.	3
	ii) Discuss Heterocyclic dyes.	2
Q.4	a) What are foodstuff dyes? Give characteristics properties and write any	
	suitable example with structure.	5
	OR	
	a) Define the term Optical Brighteners. Discuss the characteristics of optic	cal
	brighteners giving one example with structure.	5

Answer any Two of the following.

	b) i) Discuss Valence Bond Theory of colour and chemical constitution of a				
	dye.	3			
ii) Give limitations of Quinonoid theory.					
	c) Discuss the following giving one example with structure.	5			
	1) Paper dyes				
	11) Solvent dyes	2			
	d) 1) Distinguish between Dyes and Pigments.	3			
	11) Write the characteristics properties of dyes used for medicinal.	2			
	i) Circu alogification of anomic niements	3			
	ii) Give classification of organic pigments.	2			
Q.5	A) Choose the correct option from the alternatives given below.	4			
	I) A drug containing filthy or decomposed substance is known asdrug.				
	a) misbranded b) adulterated c) spurious d) generic				
	II) Narcotic analgesics acts on				
	a) PNS b) CNS c) Hormones d) None of these				
	III) is added to arrest chemical degradation of a drug.				
	a) Filler b) Lubricants c) Disintegrants d) Preservatives				
	IV) Which of the following is <u>not</u> a pharmacodynamics agent.				
a) CNS stimulants b) Diuretics c) Local anesthetics d) Antiseptic					
	OR				
	P) Define the following terms.	4			
	I) Pro-drug				

II) Bioavailability

III) Pharmacophore

IV) Therapeutic Index

B) State True or False for the following statements.

- I) Parenteral route is used for tablets and capsules.
- II) In sustained release formulations, coating of a pill dissolves in acidic juice of stomach
- III) ED_{50} is the mean lethal dose.
- IV) Glibenclamide is used as an oral hypoglycemic agent.

OR

Q) Match the following pair.

[A]	[B]
I) Metformin	a) Antipyretic
II) Paracetamol	b) Respiratory
III) Frusemide	c) Antidibetic
IV) Codeine	d) Cardiovascular

C) Match the following pair.

[A]	[B]
I) G	a) Green colour
II) S	b) Yellow colour
III) D	c) Acid dye
	d) Direct dye

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R) State True or False for the following statements.							
I) Paper dyes have weak fastness for light							
II) Tyrian Purple is a natural dye.							
III) Laser dyes are very pure compounds.							
D) Choose the correct option from the alternatives given below.I) Cochineal dye is naturally obtained from							
a) Algea b) Plants c) Insects d) Snails							
II) Pigments have particle size as compare to dyes							
a) large b) small c) same d) None of these							
III) Optical brightners absorbs radiation in region							
a) visible b) UV c) Infrared d) X-ray							
IV) molecules have very less dipole moment.							
a) Unsymmetrical b) Symmetrical c) Coloured d) Pigment							
OD							

OR

S) Write the structures of the following dyes.

- I) Indigo
- II) Erichrome Black T
- III) Methylene Blue
- IV) Orange I

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