M.Sc, Organic Chemistry, Sem-IV, Examination, April, 2015 Drugs, Paper No. XIII, Subject Code 3533

Time	:: 2.5 Hours]	[Marks: 70
NB:	All questions carry equal marks.	
Q.1.	Answer the following: (a) Classify sulpha drugs based on their duration of action with chemical structure (b) Discuss the synthesis of: Pamaquine and trimethoprim.	6
	(c) Give the name of pathogens of trypanosomiases. Give synthesis of trypan red. OR	. 2
Q.1.	Answer the following:	
	 (a) Define Antibiotics. Enlist β- lactam antibiotics and their clinical utility. (b) Give the names of malarial parasites. Give the synthesis of pamaquine. 	4
Q.2.	(c) Give synthesis of suramine. Answer the following:	14
Q.2.	(a) Define: Analgesic and antipyretic drugs. Give the synthesis and usefulness of:	-
	phenylbutazone.	prioriazone and
	(b) What are cardiovascular drugs? Give the synthesis of: hydralazine and methyl (c) What are the symptoms of hypoglycemia? Give the preparation of Glipizide.	ldopa.
	OR	
Q.2.	Answer the following:	14
	(a) Define the terms: Hypoglycemia and hyperglycemia. Give the synthesis of gly(b) Give a brief introduction of cardiovascular drugs. Give the synthesis of: diazo procanamide.	
	(c) Give the classification of antipyretic drugs and give the synthesis of phenaceti	n and
0.3	cinchophen.	
Q.3.	Answer the following: (a) Give the full form of: AIDS and HIV. Give the classification of anti-HIV drug synthesis of: lamivudine and nivirapine.	1 ² gs. Give the
	(b) What are broad spectrum antibiotics? Discuss the chemistry of D-penicillami	ne.
	OR	
Q.3.	Answer the following:	14
	(a) Write in short about aromatic organo arsenicals (any three).(b) Give the names of enzymes which are essential for the formation of HIV virus synthesis of: Loviride and zidovudine.	s. Give the
0.4	(c) Give the synthesis of <u>chloramphenicol</u> .	
Q.4.	(a) Explain the terms: Inhalation, intravenous and basal anesthetic with suitable the synthesis of: Ketamine hydrochloride, procain and prilocain.	
	(b) What are the differences between sulpha drugs and antibiotics? Give the synthesis and antibiotics of the synthesis and antibiotics of the synthesis and antibiotics.	
	sulphadiazine and sulphanilamide. OR	(
Q.4.	(a) Give a brief account on antileprotic drugs.	{
Q.11	(b) Explain blood clotting mechanism. Give the synthesis of any two blood coagu	
Q.5.	(a) Discuss the importance of tranquillizers. Give the synthesis of any tranquillizing drugs.	
	OR	
Q.5.	(a) What is neoplasm? Mention different modes of treatment of cancer. Give the sthree anticancer drugs	•
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