C 40423

(Pages 2)

Name.....

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2013

(CCSS)

Chemistry—Core Course

CH 6B 16-ORGANIC CHEMISTRY-III

Time : Three Hours

Maximum : 30 Weightage

	lly chromatography,
(a) Adsorption.	(b) partition.
(c) both of the above.	(d) None of the above.
2 The most basic among the follow	/ing is
(a) p	(b) pyridine.
(c)	(d) piperidine.
3 Green synthesis involves	
(a) enzymes.	(b) minimum solvents.
(c) minimum reagents,	(d) All of the above.
4 Carbohydrates are characterised	by the presence of
(a), OH. groups.	(b) Carbonyl groups.
(c) chiral carbons.	(d) All of the above.
5 Which of the fallowing reagent re	acts with glucose and fructose to give the same product
(a) Hydroxyl amine.	(b) phenyl hydrazine.
(c) hydrazine.	(d) all of the above.
6 Which of the following is an azo o	lye?
(a) Alizarin.	(b) Methyl orange.
(c) phenolphthalein.	(d) All of the aboye.
7 A group that gives the colour of a	이상의 그 사람은 방법에 가지도 집안했다. 김 사람은 것이 많이 가지 않는 것을 들었다.
8 Malonic ester reacts with urea in	전자에서 가지를 만들었다. 전자 등 가격을 다 가격하는 것이

Turn over

- 10 Suggest the sugar present in RNA.
- 11 Suggest the monomer of Nylon 6.
- 12 UV spectroscopy is also called _____ spectroscopy.

(12 x ¼ = 3 weightag

- II. Short answer type questions. Answer all nine questions :
 - 13 Explain the importance Rf value.
 - 14 Draw the structure of malachite green.
 - 15 Explain the tautomerism in nitromethane.
 - 16 Mention any two applications of UV spectroscopy.
 - 17 Explain the term isoelectric point'.
 - 18 What is Gabriel phthalimide synthesis?
 - 19 How is ethanol differentiated from ethanal using IR spectroscopy?
 - 20 Enlist any two functions of lipids.
 - 21 What is Lactose

 $(9 \times 1 = 9 \text{ weightage})$

- III. Short essays or paragraph questions. Answer any five questions :
 - 22 Discuss briefly the principle of column chromatography.
 - 23 Discuss the NMR characteristics of ethyl bromide.
 - 24 Discuss solid phase peptide synthesis.
 - 25 Explain-the Strecker synthesis of amino acids.
 - 26 Discuss the structure of pyridine and comment on its electrophilic and nucleophilic reactions.
 - 27 Discuss the structure of sucrose and comment on its reducing property.
 - 28 Outline the synthesis and any two applications of ethyl acetoacetate.

 $(5 \ge 2 = 10 \text{ weightage})$

- N. Essay questions. Answer any two questions :
 - 29 Discuss in detail the structure of RNA and cellobiose.
 - 30 Discuss a method of preparation of aniline and quinoline. Explain any two substitution reactions of each of them.
 - 31 Discuss any *eight* principles of green chemistry citing examples.

 $(2 \times 4 = 8 \text{ weightage})$