Total No. of printed pages = 4

Sc-203/Chem-II/2nd-Sem/Comm/2017/M

CHEMISTRY - II

Full Marks - 70

Pass Marks - 21

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer question No.1 and any six from the rest.

1. (a)	Fill in the blanks:	<5=5
	(i) — is the lightest organic compo	und.
	(ii) Polythene is a ——— polymer.	
	(iii) Water gas is chiefly a mixture of CO	and
	· ·	
	(iv) The value of C.O.D is — than	that
	of B.O.D.	

(v) Spiegel is an alloy of carbon, iron and

(b) Choose the correct answers:

1×5=5

3

- (i) Magnetite is an ore of Magnesium / Manganese / Iron / Aluminium.
- (ii) Flux combines with gangue to form Precipitate / Amalgam / Anodemud / Slag.
- (iii) Gypsum is added to cement to increase the setting time / decrease the setting time/ decrease the cost of production / decrease the time of manufacture 6.6.
- (iv) Nylon 6,6 is a Polyacid / Polyamide / Polyester / Polyisoprene.
- (v) Lactic acid exhibits
 functional isomerism / cis-trans isomerism / optical isomerism / position isomerisim.
- 2. (a) What is GreenHouse effect? Give names of four Greenhouse gases. 2+2=4
 - (b) Mention the different sources of water pollution.
 - (c) What are Carcinogens? Give examples.

3.	(a) Differentiate between Roast tion.	ing and Calcina-
	(b) What is Flux ? Classify Flu	x with examples. 1+2=3
	(c) How is Steel manufactured process ?	by Open-hearth 5
4.	(a) Distinguish between Gross and Net Calorofic value.	s Calorific value
	(b) Give the names of diffe carbonisation of bituminous	
	(c) Write short notes on Octar point.	ne number, Flash 2+2=4
5.	(a) Give the chemical reacti manufacturing of Portland	
	(b) Explain with flow sheet, the manufacturing Portland cere	
	(c) Mention the important lubricant.	functions of a
6.	(a) What is metallic corrosion different types of corrosio	
	(b) On the basis of electro-che the mechanism of rusting.	mical theory, give
	(c) How corrosion can be con-	trolled?
46/	/Sc-203/Chem-II (3)	[Turn over

7. (a) Give three points of differences betweeen thermoplastic and thermosetting resin. (b) Write the structural formula and I.U.P.A.C names of the isomers having molecular formula C₅H₁₀. (c) Give one example of each of the following: (i) Oxidation reaction (ii) Addition reaction (iii) Substitution reaction (iv) Polymerisation reaction. (a) Classify hydrocarbons with examples. (b) How is ethene prepared in laboratory ? (c) Give the halogenation reactions of methane.