Total No. of printed pages = 5

Sc-203/Chem-II/2nd Sem/Common/2017/N

CHEMISTRY-II

Full Marks - 70

Time - Three hours

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

PART - A

1.	Fill	in the blanks: 1×5=	5
	(i)	Producer gas is a mixture of CO and	
	(ii)	Bakelite is a resin.	
	(iii)	Monohydric alcohols and ar functional isomers.	re
	(iv)	The I.U.P.A.C name of acetic acid is	
9	(v)	The parameter B.O.D stands for Biologica Oxygen	al
2.	Cho	pose the correct answer: $1 \times 5 = 1$	5
	(i)	Magnetite is an ore of	
		Manganese/magnesium/iron/aluminum.	

- (ii) Flux combines with gangue to form

 Precipitate/amalgam/anode mud/slag
- (iii) Gypsum is added with cement to

 Increase setting time/decrease setting time/
 impart mechanical strength/decrease cost of
 production.
- (iv) Nylon 6.6 is a

 Poly acid/poly amide/polyester/poly alcohol
- (v) Total number of sigma bonds present in ethene molecule is

2/4/5/6

3. Give short answer in one word/sentence:

1×5=5

- (a) What are Green House gases?
- Why net calorific value is less than gross calorific value?
- (c) For what type of ore, froth floatation method of concentration is used?
- (d) Why is gypsum added with cement?
- (e) Name a dehydrating agent.

4.	Match the following	g: 1×5=5
	(a) Flux	(i) water pollution
LOO LOO	(b) B.O.D	(ii) metallic corrosion
	(c) Polymerisation	(iii) smelting
	(d) Rusting	(iv) monomer

(e) Toluene (v) aromatic hydrocarbon

5. State true or false for the following statements: $1 \times 5 = 5$

- (i) Polyethene is a linear polymer.
- (ii) Lactic acid possesses one chiral carbon.
- (iii) Calorific value of L.P.G is less than that of water gas.
- (iv) Carbon monoxide is a green house gas.
- (v) Benzene molecule has six pi electrons.

PART-B

Answer any five questions.

- 6. (a) What is pollutant? Give one example of each of primary and secondary pollutant.
 - (b) Mention different sources of water pollution.

3

(c) Suggest few measures to control air pollution
3 million paters (A)
7. (a) Distinguish between Roasting and Calcination.
rice of not obligation a (ii) and the country of th
(b) What is Flux? What are different types of
timeron U
muxes?
(c) How is steel manufactured by Bessemer
process?
8. (a) With suitable flow chart describe the wet
process of manufacturing Portland cement.
4
(b) Haw is made of
(c) What is Octane number?
9. (a) What are the measures that can be all a
controlling of metallic and be taken for
(b) What is Lubricant? Mention the important
functions of lubricant. 4
10 (a) What are hydrocarbons? How are they
classified?
(b) Write the possible isomers with molecular
formula C ₅ H ₁₀ .
(-) P:m
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42/Sc-203/Chem-II (4) 2100(Y)

- 11. (a) How is Ethene prepared from bromoethane?
 - (b) What happens when methane reacts with chlorine gas in presence of diffused sun light?
 - (c) Write a short note on Polymerisation. 3