### UNIVERSITY OF EDUCATION "UExam" Semester-IV, 2019 BS Chemistry Session:2017-21 42 Course Code: CHEM2113 No. Subject: Industrial Chemistry Roll No. (in fig.)\_ SECTION: I (MCQ's) Roll No. (in words)\_\_\_ Time Allowed: 20 Minutes Candidate's Signature. Max. Marks: 18 NOTE: Encircle the correct/ best answer in each of the followings. Each Question carries 1 mark. Use of remover earries zero mark. Cutting and Signature of Addl. Supdt. Overwriting is not allowed. Q1. Petrol and diesel can be obtained from: a) Coal Tar b) Coal Coal Gas d) Petroleum Washing soda is Alkaline Acidic c) Basic Neutral What is currently the major use of sodium carbonate? Soap-making Glass-making b) c) Water-softening d) Ink removal from paper Chemical formula of Caustic soda is: KOH MgO c) NaOH d) Ca(OH)<sub>2</sub> Which of the following is the strongest acid? Formic acid a) Acetic acid Propanoic acid Water d) Insect bites and stinging nettles contain: Oxalic acid a) Formic acid Malic acid d) c) Tartaric acid · Nitric acid is usually produced on an industrial scale by reacting NO prepared Combustion of nitrogen in b) Oxidising ammonia. a) oxygen. Thermal decomposition of d) Catalytic conversion of NO<sub>2</sub>. c) ammonia. Which one of the following will turn red litmus blue? Soft drinks b) Vinegar e) Baking soda solution d) Lemon juice

Sulfuric acid is not used in

b)

d)

Detergents

None of the option

a) Fertilizers

Toothpaste

Scanned by CamScanner

	· - hove:
a pressure used is	b) 450kPa
• In contact process a pressure used is	b) 900kPa
a) 100ki a	<b>a</b> )
c) 330kPa	to sulfur trioxide (SO <sub>3</sub> ) is basically:  b) Static reaction  Irreversible reaction
coulder dioxide (SO <sub>2</sub> )	to sulfur trioxide (assistantial reaction
• Conversion of sulful dioxide	b) Static reaction d) Irreversible reaction
a) Dynamic reaction	d) Irreversion
c) Reversible Reaction	
for lime is	lingide
• Another name for lime is:	b) Calcium dioxide
a) Caustic soda	d) Calcium oxide
c) Milk of magnesia	
• What is the chemical formula of g	ypsum?
	b) CaSO <sub>4</sub> . 10 H <sub>2</sub> O
a) CaSO <sub>4</sub> . 2 H <sub>2</sub> O	d) CaSO <sub>4</sub> . ½ H <sub>2</sub> O
c) CaSO <sub>4</sub>	
n 1 ' dos produces'	
Baking powder produces:      The produces:	b) Carbon dioxide
a) Sodium carbonate	d) Nitrogen
c) Oxygen	u) 2.222.8
<ul> <li>Acid used for manufacture of fert</li> </ul>	ilizers and explosives is:
	b) Nitric acid
a) Hydrochloric acid	- 10 1 11
c) Phosphoric acid	d) Sulfuric acid
• Density of 35.2% HCl is:	· , · · · · · · · · · · · · · · · · · ·
	<b>b</b> ) 1.159
4.440	d) 1.179
<b>c)</b> 1.169	<b>u)</b>
• What is the chemical formula of	gypsum?
a) CaSO <sub>4</sub> . 2 H <sub>2</sub> O	b) CaSO <sub>4</sub> . ½ H <sub>2</sub> O
c) CaSO <sub>4</sub>	d) CaSO <sub>4</sub> , 10 H <sub>2</sub> O
<i>c)</i> 50054	2) 00004.101120
A Ago due is prepared by the cour	aling of phonol and
• Azo dye is prepared by the coup	
a) Benzoic acid	b) Chlorobenzene
c) Diazonium chloride	d) o-Nitro aniline

# UNIVERSITY OF EDUCATION

# "UExam" Semester-IV, 2019 BS Chemistry Session:2017-21

Course Code: CHEM2113 Subject: Industrial Chemistry

Time Allowed: 100 Minutes.

Max. Marks:

42

### Section II (Short Answer)

Q.2- Write short answers of the following.

3x6 = 18

- (i) What is meant by raw materials?
- (ii) Give a brief description of fuel industry.
- (iii) Define unit operations with examples.
- (iv) What are the applications of hydrochloric acid?
- (v) Describe in short the industrial processes for caustic soda.
- (vi) Write a short note on industrial chemistry.

# Section III (Essay Type)

Answer the following Questions

6x4 = 24

- Q-3: a) Explain the manufacturing processes of sulphuric acid with the help of a flow sheet diagram.
  - b) What are the applications of sulphuric acid in daily life?
- Q-4: Describe the manufacturing of cement in industry along with flow sheet diagram. Write the applications of cement in daily life also.
- Q-5: How the oxalic acid can be manufactured? Draw the flow sheet diagram also. Write the applications of oxalic acid.
- Q-6: Write a comprehensive note on petroleum industry.