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Seat No.: _____

No. of Printed Pages : 2

Sardar Patel University

B.Sc. (Semester – I) Examination

Date: 14/11/2019, Thursday

Time: 02:00 to 05:00pm

Industrial Chemistry Vocational

US01CICV21 (Industrial Aspects of Chemistry)

Notes: Figures to the right indicate full marks.

Total marks: 70

Q.1 Answer the following Multiple Choice Questions. (All are compulsory) (10)

- Which of following will cake well?
 - Anthracite
 - Bituminous
 - Lignite
 - Peat
- Which of following forms clinkers?
 - Moisture
 - V.M
 - Ash
 - Nitrogen
- Which material is used as black pigment in printing ink?
 - Carbon
 - Zeolite
 - Alumina
 - Clay
- What is the molecular formula of benitoite?
 - $\text{BaTi}(\text{SiO}_3)_3$
 - $\text{BaTi}(\text{SiO}_3)_4$
 - $\text{BaTi}(\text{SiO}_3)$
 - $\text{Ba}(\text{SiO}_3)_4$
- Which asbestos is white in colour?
 - Crocidolite
 - Chrysotile
 - Tremolite
 - Actinolite
- Matt is the mixture of which things?
 - Two metallic sulfide only
 - Two metallic oxide only
 - Two metallic sulfide and oxide only
 - None of these
- What is the smoke?
 - Gas stream from furnace
 - Solid stream from furnace
 - Liquid stream from furnace
 - None of these
- Waste liquid obtained in the extraction of metal is:
 - Slag
 - Matt
 - Electrolyte
 - None of these
- Which is the most important ferroelectric ceramic?
 - SiO_2
 - CaSiO_3
 - BaTiO_3
 - Al_2O_3
- Which plastic is used in safety glass to reinforce it?
 - Vinyl
 - Polythene
 - Teflon
 - None of these

(1)

(PTO)

Q.2 Answer the following short questions (Any Ten)

(20)

1. Give the definition of Petroleum & its origin.
2. Enlist the steps for refining of crude oil.
3. Define term "CNG".
4. Write applications of "Cellulose nitrate".
5. How Celluloid is prepared?
6. Write properties of Acetate silk.
7. What is mean by metallurgical smoke
8. Define flux, smelting and refining.
9. Define smelting and give its characteristics.
10. Define materials and engineering materials.
11. Distinguish between Pig iron and Cast iron.
12. Write properties and uses of Aluminium.

Q.3 Discuss & explain the Refining of crude oil in detail.

(10)

OR

Q.3 Give the reactions and outline for the petrochemicals derived from Methane and Benzene.

(10)

Q.4 Write the preparation, properties & uses of the Methanol and Ethanol in detail.

(10)

OR

Q.4 Discuss the properties, sources and uses of Zeolite, Starch and Mica.

(10)

Q.5 Write a notes on Alloys and Hall electrolytic-cell process for manufacturing of Aluminium.

(10)

OR

Q.5 Write a notes on "Manufacture of Silver by Amalgamation process.

(10)

Q.6 Write a note on "Glass".

(10)

OR

Q.6 Discuss the steps involved in manufacturing of Ordinary Cement.

(10)

- X -
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