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SEAT No.

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Sardar Patel University

B.Sc. (Semester – I) Examination

Date: 24-10-2018, Wednesday

Time: 02:00pm 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)

1. The highest carbon atom present in the crude oil is?
A. C_{70}
B. C_{75}
C. C_{80}
D. C_{90}
2. The general formula of paraffin is?
A. C_nH_{2n+2}
B. C_nH_{2n-2}
C. C_nH_{2n}
D. C_nH_{2n-1}
3. Demulsification process is used in crude oil to remove _____.
A. Water
B. Salt
C. Sulfur
D. None of these.
4. Which of the Following is a reserve carbohydrate in plants?
A. Starch
B. Glycogen
C. Dextrins
D. Inulin
5. Which asbestos is white in colour?
A. Chrysotile
B. Crocidolite
C. Tremolite
D. Actinolite
6. By which method Silver metal is extracted from its sulphide ore?
A. Hydro metallurgy
B. Pyro metallurgy
C. Electro metallurgy
D. None of these
7. Waste liquid obtained in the extraction of metal is _____.
A. Slag
B. Matt
C. Electrolyte
D. None of these
8. In cyanidation process of extraction of silver the solution employed is of _____.
A. Sodium cyanide
B. Sodium chloride
C. Sodium nitrate
D. Silver nitrate
9. Grey cast iron possesses greyish colour due to presence of _____.
A. Graphite
B. Iron carbide
C. Both (a) & (b)
D. Iron
10. The function of Gypsum in cement is _____.
A. Start the settling
B. Retard the initial settling
C. Increase settling time
D. None of these.

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CPTO

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

(20)

1. Define term "Petroleum".
2. Give an origin of Petroleum.
3. What is mining of Petroleum?
4. Write an applications of "Cellulose nitrate".
5. How Celluloid is prepared?
6. Write properties of Acetate silk.
7. Write physical properties of Metals.
8. Define Ores and Ore minerals.
9. Define term Non-metals and Metalloids.
10. Define materials and engineering materials.
11. Distinguish between Pig iron and Cast iron.
12. Write properties and uses of Aluminium.

Q.3 Discuss the Refining of Crude oil in detail.

(10)

OR

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

(10)

Q.4

- A. Discuss the properties, sources and uses of Zeolite.
- B. Write the preparation, properties and uses of Starch.

(05)

(05)

OR

Q.4

- A. Write structure, properties, occurrence and preparation of Aluminium oxide.
- B. Write a short note on Mica.

(05)

(05)

Q.5 Write a notes on Alloys and Hall electrolytic-cell process for manufacturing of Aluminium. (10)

OR

Q.5

- A. Discuss the manufacture of Silver by Amalgamation process.
- B. Discuss the characteristics of metals.

(05)

(05)

Q.6 Write composition, properties and uses of Monel metal and Gun metal.

(10)

OR

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

(10)

→ X ←

(2)