

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot
 Affiliated to Saurashtra University, Rajkot

SEMESTER END EXAMINATION APRIL - 2018

B.Voc. Chemical Technology

BVCT 401 – PETROLEUM & PETROCHEMICALS

<i>Duration of Exam – 2.30 hrs</i>	<i>Semester – IV</i>	<i>Max. Marks – 70</i>
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Que. 1 (A) – Answer the following Questions [10]

1. Give the structure of glycerol.
2. Enlist any two use of methanol.
3. Write only equation for API calculation.
4. Enlist any two use of acetylene.
5. Define : i) Petroleum ii) Gas-cap
6. Enlist the composition of petroleum.
7. What is Deflagration?
8. Give structure of vinyl acetate monomer.
9. What is synthetic crude?
10. Write the main reaction that occurs in Shift converter.

Que. 1 (B) – Answer the following Questions [20]

1. Explain any two petroleum & petrochemical industries in India.
2. Draw and explain scheme diagram for CO production.
3. Explain the origin and occurrence of petroleum.
4. Explain Jet-fuel in brief.
5. Write a short note on paraffinic & asphaltic crude.
6. Give the reaction for synthesis of styrene.
7. Enlist the uses of iso propyl benzene.
8. Give chemical reaction and schematic diagram of preparation of carbon disulphide.
9. Enlist the uses of butadine.
10. Give the reaction for synthesis of n-butanol.

Que. 2 Answer the following Questions (Any Four) [20]

1. Write a brief note on refining.
2. Explain synthesis, schematic diagram of industrial production and use of ethanol.
3. Explain SNG production via partial oxidation.
4. Describe the synthesis of acrylonitrile.
5. Write the short note on Gasoline, Diesel, fuel oil & Lubricants.
6. Describe the synthesis of isobutyl alcohol.

Que. 3 Answer the following Questions (Any Four)

[20]

1. Explain desalting process in detail.
2. Describe the synthesis of maleic anhydride.
3. Explain Preparation for processing of crude oil by equipment.
4. Explain synthesis, schematic diagram of industrial production and use of acetic acid.
5. Explain classification of the Petroleum in brief.
6. Explain Feedstock of petrochemical in detail.
