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Code No. : B-255(B)

Roll No.....

Total No. of Section : 03

Total No. of Printed Pages : 04

ZalĀa-2. E3ZafSylu qāEg Āā qĒ ā'Īq'ā āvāh' nī

Write note on catalytic reforming.

OR

Yānv rĪkāā rĪāā; Syl āvāo yāj Ōā ytl ā'Y nī

Explain the method of preparation of ethyl benzene with the help of diagram.

ZalĀa-3. rgj āvāo ōĒā Yānv Yyā'ĪpSj āāt āā Sjā'yāj Ōā ytl ā'Y nī

Explain the batch process for manufacturing of ethyl acetate with diagram.

OR

Yāvāā rĪāā; Syl luāqā' Sj āvāo āvāh' nī

Write the commercial method for preparation of aniline.

ZalĀa-4. Ēpudā qā'Ēā'ā'Ē Syl Sjā'ūvāo mnā Equāā āvāh' nī

Write the mechanism and application of radiation pyrometers.

OR

rĪvā; ZalĀā āak Syl Sjā'ūvāo yāj Ōā ytl ā'Y nī

Explain the function of bellow pressure gauge with labelled diagram.

ZalĀa-5. j Ī'p'āā' S' v'v' āak Sjā'yāj Ōā ytl ā'Y nī

Explain ultrasonic level gauge with labelled diagram.

OR

Āvā'p'Īq āvā' w'p'v'v' āak Sjā' w'āā Sylā'Y nī

Describe float type liquid level gauge.

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Annual Examination - 2017

B.Sc.-II

INDUSTRIAL CHEMISTRY

Paper - III

Max.Marks : 33

Time : 3 Hrs.

Min Marks : 11

Īq B h'ā'p' ; ' t'p'8p ; ānvi ĒĒā ZalĀā Nā ā'N'v' SjĒāā ; āāvā'ē'ē' h'ā'p'r' t'p'v'Ēā ZalĀā h'ā'p'y' t'p'āā' ē'Ēā' ZalĀā Nēn h'ā'p' ; ' Sjā'yryc'q'N'v' SjĒēn

Note: Section 'A', containing 8 very short answer type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

KOH

h'ā'p' ; '(Section-'A')

āā'āā' S'ym ; ān vi ĒĒā' ZalĀā'p' Sj' ĒĒā' Y' S'j' uā āā; wā' uā'p' t'p' ā'p' nī
(Answer the following very short-answer-type questions in one or two sentences) (1x8=8)

ZalĀa-1. j ā' yā' S'Ē'ā' y'c' uā ytl m'c'Nā? Y' S'j' Ēā'ā'Ē'ā' āā'k'Y nī

What do you mean by oxidation? Give one example.

ZalĀa-2. rĪkāā y'c't'v' S'j ; Ēv rĪāā; Syl ; ās'ā'j' uā āvāh' nī

Write the reaction of formation of maleic acid from benzene.

ZalĀa-3. Yānv rĪkāā rĪāā; Syl ; ās'ā'j' uā āvāh' nī

Write the reaction of formation of ethyl benzene.

ZalĀa-4. Y'Ē' S'jv ' vā'ā' p' S'jā' Y'Ē' S'jā'ā' S'j KOH S'j yān ; ās'ā'j' uā āvāh' nī

Write the reaction of alkyl chloride with alcoholic .

ZalĀa-5. Y'Ē'Ē' S'jĒ'ā' ' uā Nē? Y' S'j' Ēā'ā'Ē'ā' āvāh' nī

What is esterification? Write one example.

P.T.O.

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ZalĀa-6. rāc tēlv sy n tā t ā' fē y cā s y m ā c ē k m s y m ā q t ā q y s y m c n ē?

How much range of temperature can be measured by bimetallic thermometer?

ZalĀa-7. t s j v ā c » p ā k s j ā ē q u ā ā v ā h y n̄

Write the uses of Macleod gauge.

ZalĀa-8. i ā w ā s y y c s y m c n ā? c y s y c s j ā c ā v ā h y n̄

What is density? Write their unit.

h/ā-p-'r'(Section-'B')

alā ā ā s y m v i ā ē l ē ā u z ā l ā ā p s y ē l ē 150-200 t ā ā -y ā t ā t p ā p n̄
(Answer the following short-answer type questions with word limit 150-200) **(2x5=10)**

ZalĀa-1. y ā y ' l v ā » n ā c » p y c y ā y ā ' s y ; ē v r ā ā c s y ā v ā o s j ā w / ā ā s y l ā k y n̄

Describe the process for the preparation of acetic acid from acetaldehyde.

OR

y s j ā v ā ā s j ā y l v ā » y w p ē q u ā ā v ā h y n̄

Write the synthesis and application of acrolein.

ZalĀa-2. n ā c » p s y ā ā s y ō w ; w d n ā y ō l s y ā v s y ē / ā ; ā s ā s y u ā s y ā c ā ā n ē / ā y ā l m y t l ā c y n̄

Explain the mechanism for liquid phase alkylation of hydrocarbon with example.

OR

i ē v ; ā y d ' fē s y n ā c » p k ā s y ē / ā y c ' l s y ā l v r ā ā c s y ; ā s ā s y u ā y t l ā c y n̄

Explain the reaction of formation of alcohol from hydrogenation of acid and ester.

ZalĀa-3. y t ā ā p ā y k ā p q ē y ā ā m ā ' l q / ā ā v ā h y n̄

Write short note on aminating agents.

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OR

y d ' fē s y ; ē v w ō ā ē ō ā ē n ā c » p ā v ā y y s y ā s y u ā v ā o s y ā c y t l ā c y n̄

Explain the reaction mechanism of acidic and basic hydrolysis of ester.

ZalĀa-4. q ā l ā ā - m ā s y ā c ā ā n ē / ā y ā l m y t l ā c y n̄

Explain accuracy with example.

OR

ā q ē ā ā ā k s y ā y ÷ ā n s y ā y ā j ā y t l ā c y n̄

Explain the principle of Pirani gauge with diagram.

ZalĀa-5. r / r v ē ā y d ' t q ē ā ' l q / ā ā v ā h y n̄

Write note on bubbler system.

OR

ō w s y ā n d s y ā y m ā ō ā m s y ē ā c s y s y ā c ē s y ā v ā o y ā y ā l m y t l ā c y n̄

Write any one method for determination of viscosity of liquid with formula.

h/ā-p-'y'(Section-'C')

alā ā ā s y m ā ā i ē ē l ē ā u z ā l ā ā p s y ē l ē 300-350 t ā ā -y ā t ā t p ā p n̄
(Answer the following long-answer type questions with word limit 300-350) **(3x5=15)**

ZalĀa-1. i ā y ā s y ē s y ' u ā n ā n c n ē? q ē t ā ā p w » p c s y ā c p s y ; ā y ā s y ē s y ' ā ā y t l ā c y n̄

What are oxidizing agents? Explain oxidizing properties of permanganate and dichromate.

OR

r k ā c s y ; ē v s y ; ā c ā p ā s y ā t ā ā ā v ā o s j ā w / ā ā s y l ā k y n̄

Describe the method for commercial manufacturing of benzoic acid.