



SARASWATI EDUCATION SOCIETY'S
SARASWATI COLLEGE OF ENGINEERING, NAVI MUMBAI, KHARGHAR
DEPARTMENT OF ENGINEERING SCIENCES & HUMANITIES

FIRST UNIT TEST SEM- II (2014-2015)

APPLIED CHEMISTRY-1I

Total Marks: 15

SET A

Time: 1 hour

Date:- /2/15

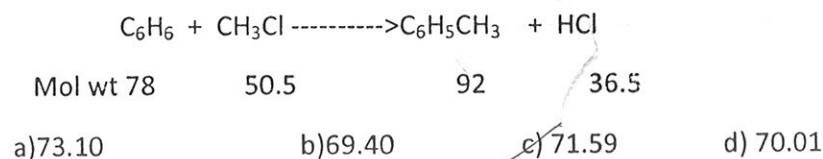
Attempt All the Questions

Q1. Mark the correct answer from the given options [5]

i) Green chemistry use as feedstock

- a) Renewable material b) Hazardous material c) Auxiliary substance d) solvents

ii) The % Atom Economy for following reaction is



iii) Indigo is manufactured by green pathway using as starting material

- a) Aniline b) L-Tryptophan c) cyclohexane d) Benzene

iv) Highest rank of coal is.....

- a) Peat b) Anthracite c) lignite d) Bituminous

v) octane number of iso-octane is.....

- a) 50 b) 0 c) 100 d) 70

Q2. 1.5g of coal sample was taken for C & H estimation by combustion method. The increase in weight of CaCl₂ tube and KOH bulb was found to be 1.25g & 4.88g respectively. Calculate % of C and H.

OR

What is cracking? Explain in detail with neat and clean diagram Moving Bed Catalytic Cracking.

Q3. A gaseous fuel has following composition by Volume

H₂=50%, CO=10%, CH₄=30%, N₂=1%, O₂=2%

Calculate volume of air require for complete combustion of 1m³ of gas.

OR

Explain refining of petroleum with suitable example.

0.9 - 0.02