

Total Pages – 3

B.Sc. RNLKWC-/SEC2T/22

2022

CHEMISTRY

[Honours]

B.Sc. Fourth Semester End Examination - 2022

PAPER - SEC2T

Full Marks : 20

Time : 1 hour

*The figures in the right-hand margin indicate marks.
Candidates are required to give their answers in their own
words as far as practicable.*

Illustrate the answers wherever necessary.

Group - A

Answer any five questions :-

2×5=10

1. Distinguish between renewable energy and non-renewable energy. 2
2. What do you mean by calorific value of a fuel? How is it related with the efficiency of a fuel? 2(1+1)

(Turn Over)

(2)

3. Distinguish between Net Calarifie value & Gross Calorifie value of a fuel. 2
4. What do you mean by coking of coal? 2
5. Write in brief about the different types of lubricants. 2
6. Explain the principle of fractional distillation. Write down the full form of (CNG), (LPG) 1+1=2
7. Explain in brief about the thermolytic and catalytic cracking. 1+1=2
8. What do you mean by carbonisation of coal? Also mention different products formed with temperature variation in this process. 1+1=2

Group - B

Answer any two questions :- 5×2=10

1. Write two merits & demerits for each of the solid, liquid & gaseous fuels. 5
2. Explain with a proper sehematic presentatin, in fractional distillation of coal tar? 2½+2½

B.Sc. RNLKWC-/Chemistry/SEC2T/22

(Continued)

(3)

3. Explain water gas production reaction. Relate this to destructive distillation of coal with proper scheme and explanation. 1+4
4. Write down the composition of crude petroleum classify the petroleum products after refining and mention their applications. 1½+1½+2

B.Sc. RNLKWC-/Chemistry/SEC2T/22