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Exam Code : D-23

Subject Code—60469

B.Sc. EXAMINATION

(Main/Re-appear) (Batch 2019 Onwards)

(Fifth Semester)

CHEMISTRY

CCS-505 (ii) Paper-I

Skill Enhancement Course-I Fuel Chemistry

Time : 2 Hours

Maximum Marks : 50

Note : Attempt *Three* questions in all, selecting *one* question from each Section. Q. No. 1 is compulsory.

(Compulsory Question)

1. (a) What do you mean by secondary fuels ?
(b) Define calorific value.
(c) How fuels are commonly classified ?

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- (d) What is meant by solvent refining of coal ?
- (e) What is Reforming ?
- (f) What is sustainable energy ?
- (g) Define ignite temperature of fuel.
- (h) What are functions of lubricants ?
- (i) What is method of increasing oiliness of petroleum oil ?
- (j) Define viscosity and viscosity index.

2×10=20

Section A

2. (a) Explain fractional distillation of coal tar. 8
- (b) Enumerate characteristics of a good fuel. 7
3. (a) What are renewable and non-renewable energy resources ? 6
- (b) Explain carbonization of coal. 5
- (c) Why graphite acts as lubricant ? 4

Section B

4. (a) Write a note on petroleum and non-petroleum fuels. 6
- (b) Write notes on vinyl acetate, butadiene and isoprene. 9
5. (a) Write the mechanism of Lubrication. 9
- (b) Differentiate between Catalytic and Thermal cracking. 6

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(a)

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