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B.Sc. (Hons.) with Research in Chemistry
Semester III Examination-2024
Paper Code: BCH-MIC 301
Paper Title: Pesticide & Fuel Chemistry

Time: 2.5 hrs

Max. Marks 60

Attempt All questions. All parts of a question must be attempted in continuation. Start answering a fresh question on a new page. Cite examples and draw diagrams wherever necessary.

Section A

Attempt all questions

(10X2=20Marks)

Q.No		BTL	CLO	PLO
A.1	What is Petroleum?	2	1	2
A.2	What is an ideal fuel?	1	3	2
A.3	Write the full form of ASTM & BIS.	2	3	1
A.4	What is the full form of DDT & HCH?	3	5	2
A.5	What is the full form of PNG, CNG & LPG?			
A.6	What is distillation?	5	6	2
A.7	Why CNG is better than LPG?	4	3	3
A.8	Why DDT is banned?	5	5	1
A.9	Give an example of a high-potency herbicide.	1	6	1
A.10	Why excessive use of pesticides is harmful to the environment?	6	5	3

Section B

Long type Questions (Attempt any two out of four)

(2x10=20Marks)

Q.No.		BTL	CLO	PLO
B.1	What are the different views of the origin of Petroleum in nature?	3	1	2
B.2	Explain gravimetric, magnetic & seismic methods used in oil exploration.	5	5	3
B.3	What are pesticides, herbicides & fungicides? Explain the SAR of each by taking suitable examples	1	2	2
B.4	Explain the synthesis and structure-activity relationship of sulphonylureas			

Section C

Attempt four questions out of six.

(4x5=20 Marks)

Q.No.		BTL	CLO	PLO
C.1	Explain new microemulsion-based pesticide formulation.	1	5	3
C.2	Explain the classification of fungicides.	4	3	2
C.3	Explain the synthesis and mode of action of any three pesticides.	5	6	2
C.4	Explain TBP distillation.	1	2	1
C.5	Explain the secondary refining process.		6	6
C.6	Explain the properties of solid and liquid fuels.	3	5	2