

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPF-2206

M.Sc. (Final) Examination, 2022

CHEMISTRY

Paper - X (B)

(Group-D CH-510)

(Applied Analytical Chemistry)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

- (i) What is the normal range of Blood Glucose level in Adults ?
- (ii) Write chemical name of Vit. A.

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- (iii) What are Solid Fuels ?
- (iv) What is the composition of Producer Gas ?
- (v) Write *two* examples of non-metallic pollutants.
- (vi) What is Threshold Odour Number ?
- (vii) What is Lethal Dose ?
- (viii) What is TLC ?
- (ix) Explain Softening Point.
- (x) What is CMC ?

Section-B

2. Describe analysis of Barbiturates.

Or

Describe estimation of uric acid.

3. Explain octane number.

Or

How moisture is measured in different samples ?

4. Describe solvent extraction method.

Or

What is BOD ? How is it measured ?

5. How can you perform the extraction of Orange Peel ?

Or

What are the methods of Pesticide analysis in food samples ?

6. What is RM Value ?

Or

How the analysis of soap is performed ?

Section-C

7. What are Narcotics and Dangerous drugs ? Discuss with examples.
8. Describe methods of soil analysis.
9. You have been asked to set up a waste water treatment plant at your workplace. What measure will be taken by you ? Also discuss significance of waste water treatment plant.
10. Discuss principles and application of HPLC in special reference to food analysis.
11. Write short notes on separation of pigments and flash points.