

Roll No :

Total No. of Questions : 11]

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SP-685

M.Sc. (Final) Examination, 2021

CHEMISTRY

Paper - X (B)

(Group-D CH-510)

(Applied Analytical Chemistry)

Time : 1½ Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

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

(खण्ड-अ)

(अंक : 2 × 10 = 20)

नोट :- सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 50 शब्द)। प्रत्येक प्रश्न 2 अंक का है।

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.

(खण्ड-ब)

(अंक : 5 × 5 = 25)

नोट :- सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा 200 शब्द)। प्रत्येक प्रश्न 5 अंक का है।

Section-C

(Marks : 10 × 3 = 30)

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

(खण्ड-स)

(अंक : 10 × 3 = 30)

नोट :- पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 500 शब्द)। प्रत्येक प्रश्न 10 अंक का है।

BI-326

(1)

SP-685 P.T.O.

Section–A

2 each

1. (i) What are Antihistamines ?
- (ii) Write composition of Blood.
- (iii) What do you understand by Soil Fertility ?
- (iv) What is Calorific fuel ? Define.
- (v) Threshold Odour number. Describe.
- (vi) What is Microbiological Treatment ? Describe.
- (vii) What do you understand by term Food adulteration ?
- (viii) Lethal dose. Explain.
- (ix) Define Iodine value.
- (x) What are binders and thinners ?

Section–B

5 each

2. What are Drugs ? Describe and give classification.

Or

What do you understand by clinical analysis ? Describe clinical analysis of uric acid.

3. Write a note on analysis of fertilizers.

Or

Write a note on grading of coal.

4. What are metallic and non-metallic pollutants ? Describe.

Or

Write note on sewage and sludge analysis.

5. What do you understand by term adulteration ? Describe common adulteration in food.

Or

Write a note on Poisons and their classification.

6. What are Soaps ? How you estimate free alkali and phenol in soap ?

Or

Define pigment and describe separation of pigments.

Section–C

10 each

7. Write a note on analysis of drugs by taking example of sulfa drugs and barbiturates.
8. Write a explanatory note on soil fertility and its determination.
9. What are air Pollutants ? Describe methods of analysis of air pollutants.
10. Write a explanatory note on forensic analysis.
11. What are Dyes ? Explain type and their analysis.