

Time : Three Hours]

[Maximum Marks : 80

**N.B. :-** (1) Question No. 1 is compulsory.(2) Solve any **FOUR** questions from remaining.

(3) Draw neat and labelled diagram wherever necessary.

1. Attempt any **FIVE** of the following :—

- (a) Write biological source, chemical constituents and uses of Bael.
- (b) What is Cellulose ? Describe its various types.
- (c) What are lipids ? Differentiate between fats and waxes.
- (d) Define and classify fibres.
- (e) Mention source, characters, chemical constituents and uses of Shilajit.
- (f) Write preparation and uses of gelatin.
- (g) Write a note on papain.

4×5=20

2. (a) What are carbohydrates ? Write about classification and chemistry of carbohydrates.

7

(b) Write a note on Gums and Mucilages.

8

3. (a) Describe the pharmacognosy of castor oil.

7

(b) Describe various types of starches.

8

4. (a) Write Synonyms, source, chemical constituents and uses of Talc and Bentonite.

7

(b) Give a detailed account on cotton.

8

5. (a) Name the drugs from mineral origin. Describe in detail about Kaolin.

7

(b) Write a note on Silk.

8

6. (a) Define and classify enzymes. Write about Pancreatin and Pepsin.

7

(b) Write an account on Musk.

8

7. State the biological source, chemical constituents and uses of any **FIVE** of the following :—

- (a) Honey
- (b) Agar
- (c) Beeswax
- (d) Wool
- (e) Kieselghur
- (f) Shellac
- (g) Streptokinase.

5×3=15