

**B.Pharm (Second Semester) (C.B.S.) Examination**  
**PHARMACOGNOSY AND PHYTOCHEMISTRY—II**  
**Paper—5**

Time : Three Hours]

[Maximum Marks : 80

- N.B. :**— (1) Question No. **1** is compulsory.  
(2) Solve any **four** questions from the remaining.  
(3) Draw neat labeled diagram wherever necessary.

1. Attempt any **five** of the following : 5×4=20
- (a) Enumerate various modified starches.
  - (b) Write a note on Dextrin.
  - (c) Differentiate between gums and mucilages.
  - (d) Classify fibres with suitable examples.
  - (e) Differentiate between fixed oils, fats and waxes with suitable examples.
  - (f) Write a note on Bael.
  - (g) Write a note on Gelatin.
2. What are carbohydrates ? Explain classification of carbohydrates with their chemistry and examples. 15
3. (a) What are lipids ? Write classification and chemistry of lipids. 7  
(b) Write an account on starch. 8
4. (a) Write pharmacognostic account on Bees wax. 7  
(b) Write an account on Civet and Musk. 8
5. Write short notes on (any **three**) : 5×3=15
- (a) Shilajit
  - (b) Calamine

- (c) Shellac
  - (d) Papain
  - (e) Streptokinase.
6. (a) Differentiate between Cotton, Jute, Silk and Wool. 7
- (b) Write about Agar and Guar gum. 8
7. Write biological source, method of preparation, chemical test and uses of (any **three**) :
- (a) Pectin
  - (b) Cellulose
  - (c) Bentonite
  - (d) Isapgol
  - (e) Cod-liver oil. 5×3=15