



BCF-003-1015021 Seat No. _____

B. Sc. (Sem. V) (CBCS) Examination

August – 2021

IC - 501 : Pharmaceuticals

Faculty Code : 003

Subject Code : 1015021

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

INSTRUCTIONS:

- 1) Question paper carries total 10 questions.
- 2) All the questions have general option & carry 14 marks each.
- 3) Answer any 5 questions out of total 10 questions.
- 4) Draw labeled diagram wherever necessary & Assume suitable data.

1A: Answer the following questions.

04

1. Who was the Chairman for the first edition of Indian Pharmacopoeia?
2. The hard part of the capsule which is generally made up gelatin is called_____.
3. Which was the first Indian pharmaceutical company established in the year of 1901?
4. An agent which kills disease microorganism is known as_____.

B: Answer in brief.

02

1. Enlist various pharmaceutical ingredients.

C: Answer in detail.

03

1. Write a note on needs for dosage form.

D: Write a note on.

05

1. Discuss various sterilization techniques with example in detail.

2A: Answer the following questions.

04

1. The route of drug substances which are given beside the route of intestine is called_____.
2. The word Pharmacopoeia is derived from _____ and _____ Greek words
3. An agent that prevent the growth of the bacteria is called Bacteriostatic. True / False?
4. Give one example of thermo set plastic.

B: Answer in brief.

02

1. Define the terms Viricides & Germicides.

C: Answer in detail.

03

1. Enlist various routes of drug administration.

D: Write a note on.	05
1. Explain history of international pharmacopoeia in detail.	
3A: Answer the following questions.	04
1. The substances which are medicinally active and are derived from the natural sources are called_____.	
2. _____ is known as the classification which is based on Law of arrangement.	
3. Trichomes are also known as_____.	
4. Distance travelled by solute to distance travelled by solvent is known as_____.	
B: Answer in brief.	02
1. What are phytochemicals?	
C: Answer in detail.	03
1. Write a short note on collection of crude drugs.	
D: Write a note on.	05
1. What are crude drugs? Discuss their importance in pharmacognosy.	
4A: Answer the following questions.	04
1. Write full form of TLC.	
2. Which instrument is used to measure moisture content from crude drugs?	
3. The average number of stomata present per square mm of the epidermis is called_____.	
4. Gibberellin is an example of Plant Growth Regulators. True / False?	
B: Answer in brief.	02
1. Define: Stomatal index with formula	
C: Answer in detail.	03
1. Define: a) Vein Islet b) Vein Islet Number c) Vein termination Number	
D: Write a note on.	05
1. Discuss concepts of chromatographic techniques and quantitative microscopy of crude drugs.	
5A: Answer the following questions.	04
1. Which of the following are examples of absorbable sutures?	
2. An agent which inhibits the process of oxidation is called?	
3. In polishing mixture the ratio of Bees wax and Carnauba wax is ___ & ___.	
4. Cochineal is an example of?	
B: Answer in brief.	02
1. Give four examples of non-absorbable suture.	
C: Answer in detail.	03
1. Write a short note on surgical gauzes.	
D: Write a note on.	05
1. Enlist and explain classification of emulsifying agents in details.	

- 6A: Answer the following questions.** **04**
1. Saccharin is an example of _____.
 2. HLB stands for what?
 3. Surfactant is surface active agent. True/False?
 4. _____ is biphasic liquid.
- B: Answer in brief.** **02**
1. Define: Surfactant with example
- C: Answer in detail.** **03**
1. Write a short note on sweetening agents.
- D: Write a note on.** **05**
1. Discuss in detail: (i) Preservatives ii) Antioxidants
- 7A: Answer the following questions.** **04**
1. Isoniazid drug is used to in treatment of _____.
 2. The full form of PAS drug is _____.
 3. What is anti-hypertensive drug?
 4. The starting material used to synthesize ibuprofen drug is _____.
- B: Answer in brief.** **02**
1. Write a brief note on barbiturates.
- C: Answer in detail.** **03**
1. Give synthesis of Aprobarbital.
- D: Write a note on.** **05**
1. Give synthesis of Paracetamol and Ibuprofen.
- 8A: Answer the following questions.** **04**
1. The drug which is used to reduce body temperature is known as _____.
 2. Acetyl salicylic acid is called as _____
 3. Which drug is used in treatment of insomnia?
 4. Analgesic drugs are used as pain killer. True/False?
- B: Answer in brief.** **02**
1. Write synthesis of Propranolol.
- C: Answer in detail.** **03**
1. Write synthesis of Secubarbital.
- D: Write a note on.** **05**
1. Give synthesis of Methyldopa and Atenolol.
- 9A: Answer the following questions.** **04**
1. Penicillin is _____ drug.
 2. Enzymes are _____.
 3. Give full form of ATP.
 4. Lactobacillus bulgaricus is used to produce _____ product via fermentation.
- B: Answer in brief.** **02**
1. Draw structure of bacteria (Only diagram).

- C: Answer in detail.** 03
1. Write a short note on Baker's yeast.
- D: Write a note on.** 05
1. Discuss manufacturing of penicillin with neat diagram in detail.
- 10A: Answer the following questions.** 04
1. Lipase is used for catabolism of _____.
 2. Enzymes are useful _____ catalyst.
 3. Write full form of TCA.
 4. During fermentation of glucose, lactic acid is produced from _____.
- B: Answer in brief.** 02
1. Write applications of microorganism.
- C: Answer in detail.** 03
1. Explain catabolism of protein.
- D: Write a note on.** 05
1. Explain production of lactic acid with neat diagram in detail.
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