



JV-003-1015021

Seat No. _____

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

October - 2019

IC - 501 : Pharmaceuticals

Faculty Code : 003

Subject Code : 1015021

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

[Total Marks : 70

- Instructions :**
- (1) Question paper carries total 5 questions.
 - (2) All the questions are compulsory and carry 14 marks each.
 - (3) Draw labeled diagram wherever necessary.
 - (4) Assume suitable data.

- 1 (a) Answer the following questions : 4
- (1) Give full form of BPC.
 - (2) _____ was the chairman of fourth edition of Indian pharmacopoeia.
 - (3) Steam sterilization is carried out by using oven. True/False ?
 - (4) Tablet or capsule swallowed through mouth, is _____ type of route of drug administration ?
- (b) Answer in brief : (any **one** out of two) 2
- (1) Write a brief note on sublingual route.
 - (2) Discuss in brief aluminium as a packaging material.
- (c) Answer in detail : (any **one** out of two) 3
- (1) Enlist various sterilization techniques and discuss in brief any one.
 - (2) Discuss primary, secondary and tertiary packaging materials.
- (d) Write note on : (any **one** out of two) 5
- (1) Discuss in detail history of Indian Pharmacopoeia.
 - (2) Explain pyrogen, pyrogen control and pyrogen testing in detail.

- 2 (a) Answer the following questions : 4
- (1) Abscisin-II is also known as _____ acid.
 - (2) R_f value is ratio of distance travelled by solute to distance travelled by _____.
 - (3) Which instrument is used to determine moisture content available in crude drugs ?
 - (4) Alkaloids are basic nitrogenous compounds. True/False ?
- (b) Answer in brief : (any **one** out of two) 2
- (1) Define :
 - (a) Stomatal Index.
 - (b) Vein Islet No.
 - (2) What is water pores ?
- (c) Answer in detail : (any **one** out of two) 3
- (1) Write a note on collection of crude drugs.
 - (2) Enlist classification of crude drugs.
- (d) Write a note on : (any **one** out of two) 5
- (1) Explain plant growth regulators in detail.
 - (2) Discuss isolation of alkaloids in detail.
- 3 (a) Answer the following questions : 4
- (1) Enlist types of bandages.
 - (2) Ideal dressing should be non-adhering and non-inflammable. True/False?
 - (3) Give full form of HLB.
 - (4) Give two examples of preservatives.
- (b) Answer in brief : (any **one** out of two) 2
- (1) Write a brief note on flavouring agents.
 - (2) Enlist two uses of zinc paste bandages.

- (c) Answer in detail : (any **one** out of two) 3
- (1) Differentiate among lotion, ointment and cream.
 - (2) Write a short note on wound repair.
- (d) Write a note on : (any **one** out of two) 5
- (1) Write a detailed note on sutures and ligatures.
 - (2) Discuss :
 - (a) Antioxidant
 - (b) Coating agents
- 4 (a) Answer the following questions : 4
- (1) Molisch's test is useful for determination of _____.
 - (2) Give general molecular formula of Terpenoid.
 - (3) Give IUPAC name of salicylic acid.
 - (4) Atenolol is used to moderate hypertension.
True/False?
- (b) Answer in brief : (any **one** out of two) 2
- (1) Give synthesis of Methyldopa drug.
 - (2) Define :
 - (a) Analgesic drug
 - (b) Antipyretic drug
- (c) Answer in detail : (any **one** out of two) 3
- (1) Give synthesis of Phenacetin.
 - (2) Write synthesis of Cyclobarbitone.
- (d) Write a note on : (any **one** out of two) 5
- (1) Give synthesis of :
 - (a) Butalbital
 - (b) Mefenamic acid
 - (2) Give synthesis of :
 - (a) Isoniazid
 - (b) Secubarbital

- 5 (a) Answer the following questions : 4
- (1) Anaerobic respiration gives _____ ATP energy.
 - (2) During glucose fermentation, lactic acid is formed from _____ acid.
 - (3) Enzymes are also called as _____.
 - (4) Enzymes activity is dependent on pH. True/False ?
- (b) Answer in brief : (any **one** out of two) 2
- (1) Draw only diagram of structure of bacteria.
 - (2) Write a short note on alcohol fermentation in brief.
- (c) Answer in detail : (any **one** out of two) 3
- (1) Explain factors affecting bacterial growth.
 - (2) Discuss catabolism of protein.
- (d) Write a note on : (any **one** out of two) 5
- (1) Explain manufacturing of vinegar with diagram.
 - (2) Describe manufacturing of penicillin via fermentation method.
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