

QP Code: 2020/1/1/B1

Reg. No.: .....

ID. Pharm (2020 Batch) I Sessional Theory Examinations, Sept 2021

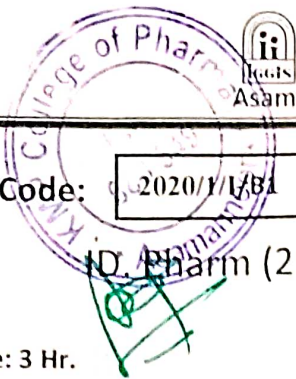
PHARMACEUTICS I

Time: 3 Hr.

Max. Marks: 80

- Answer any eight questions
- Draw diagrams wherever necessary

- Define the following  
a. Lotion                      d. Syrup                      g. Elixir                      j. Mouthwash  
b. Liniment                      e. Ointment                      h. Tablets  
c. Gargle                      f. Suspension                      i. Capsules                      1 X 10 = 10
- Factors effecting rate of size Reduction? Discuss different methods of size reduction  
5 + 5 = 10
- Principle and working of Ball Mill and Hammer Mill.                      5 + 5 = 10
- Desirable features of a pharmaceutical container. Advantages and disadvantages of rubber closures.                      5 + 2 1/2 + 2 1/2 = 10
- Construction, working, advantages and disadvantages Cyclone separator with the help of a neat diagram.                      5 X 2 = 10
- Define dosage form. Explain any two solid dosage forms.                      2 + 4 + 4 = 10
- Define aerosols. Describe the various components of an aerosol packaging with the help of a neat diagram.                      2 + 5 + 3 = 10
- Define containers and closures. Discuss the advantages and disadvantages of glass containers.                      4 + 6 = 10
- What are filter aids? Discuss the advantages and disadvantages of filter press.                      2 + 4 + 4 = 10
- Explain construction, working and applications of Colloid Mill with a neat diagram.                      2.5 X 4 = 10



QP Code: 2020/Y/1/B1

Reg. No.: .....

**1D. Pharm (2020 Batch) I Sessional Theory Examinations, Sept 2021**

**PHARMACEUTICAL CHEMISTRY I**

Time: 3 Hr.

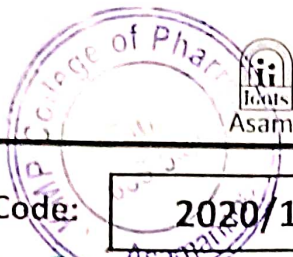
Max. Marks: 80

- Answer any eight questions
- Draw diagrams wherever necessary

- 1) a) What are antacids, give the name and chemical formula of any five?  
b) Write the principle and procedure involved in the assay of boric acid (5+5=10)
- 2) a) Write the chemical formula of  
i) Potassium iodide ii) Magnesium trisilicate  
iii) Sodium hydroxide iv) Calcium carbonate v) Kaolin  
b) What are Saline cathartics? Write the storage and uses of any two (5+5=10)
- 3) a) Define with two examples each for  
i) Expectorant ii) Antacid  
b) Preparation and uses of  
i) Potassium iodide ii) Calcium carbonate (5+5=10)
- 4) a) Write a note on  
i) aluminum phosphate ii) ammonium carbonate  
b) Write one example each for  
i) Emetic ii) Respiratory stimulant iii) Antidote  
iv) Protective v) acidifying agent (5+5=10)
- 5) a) Write the chemical formula and two uses each of  
i) Antimony potassium tartrate ii) Sodium potassium tartrate  
b) Give the storage condition and uses of  
i) Sodium nitrite ii) Magnesium sulphate (5+5=10)
- 6) a) Write the physical properties, storage and uses of  
i) Kaolin ii) Magnesium oxide  
b) Write a note on antidotes with examples (5+5=10)



- 7) a) Write the preparation, chemical properties of  
i) Sodium bicarbonate      ii) Ammonium hydroxide  
b) Write a note on official buffers (5+5=10)
- 8) a) Define adsorbents? Write a note on kaolin  
b) Explain combinations of antacid preparations (5+5=10)
- 9) a) Write a note on  
i) Bismuth sub carbonate      ii) Aluminum hydroxide  
b) Write the preparation and assay of Ammonium chloride (5+5=10)
- 10) a) Write the chemical properties, storage and uses of  
i) Hydrochloric acid      ii) Antimony potassium tartrate.  
b) Write a note on  
i) Magnesium carbonate      ii) Sodium hydroxide (5+5=10)



# KMP COLLEGE OF PHARMACY

Asamannoor P.O., Poomala, Perumbavoor, Ernakulam, Kerala – 683 549

QP Code:

2020/1/I/1.3

Reg. No.: .....

I Year D-Pharm (2020 Batch) I Sessional Theory Examinations, September-2020

## PHARMACOGNOSY

Time: 3 Hr.

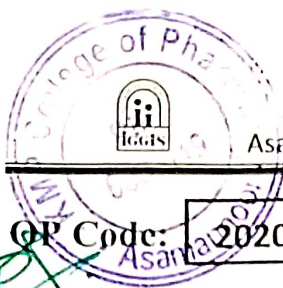
Max. Marks: 80

- Answer any 8 questions
- Draw diagrams wherever necessary

1. A) Define Pharmacognosy. (4+6=10)  
B) Write the Biological source, morphology, chemical constituents and uses of Rauwolfia.
2. Write a note on classification of crude drugs with examples. (10)
3. A) Write a note on Umbelliferous fruits. With examples  
B) write the biological source & uses.  
i) ajowan ii) black pepper iii) asafoetida (4+6=10)
4. A) Explain the morphology & microscopy of Fennel with a neat labeled diagram.  
B) Write the difference between organized drugs & un organized drugs. (5+5=10)
5. Write the general chemical test for  
a) Volatile oil b) Alkaloids (5+5=10)
6. A) Write a note on Physical method of evaluation.  
B) Write a note on Un-intentional adulteration. (5+5=10)
7. Write the biological source of :  
i) Senna ii) Coriander iii) Nux vomica iv) Tulsi v) Aswagandha (2X5=10)
8. A) Write a note on adulterants in clove.  
B) Chemical constituents present in :  
i) Cinnamon ii) Ginger iii) Cardamom (4+6=10)
9. A) Define alkaloids. Write the classification with examples.  
B) Write a note on antitumor drugs. (5+5=10)
10. A) Scope of Pharmacognosy  
B) Microscopical evaluation of crude drugs. (5+5=10)

.....





# KMP COLLEGE OF PHARMACY

Asamannoor P.O., Perumbavoor, Ernakulam, Kerala – 683 549

QP Code: 2020/1/1/D1

Reg. No.: .....

I Year D. Pharm (2020 Batch) I Sessional Theory Examinations  
September 2021

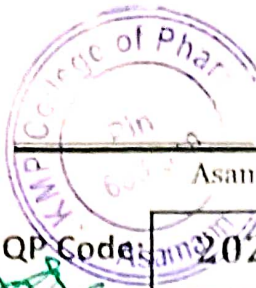
## BIOCHEMISTRY AND CLINICAL PATHOLOGY

Time: 3 hours

Max. Marks: 80

- Answer Any Eight Questions
- All questions carry equal marks

- Define and classify enzymes with eg :
  - Explain the clinical and diagnostic applications of enzymes. (5+5=10)
- Enumerate the steps of kreb's cycle and it's energetics.
  - Note on Diabete Mellitus. (5+5=10)
- Explain the following terms 1) Polysaccharide 2) Osazone Test
  - Explain the disorders of Carbohydrate metabolism. (5+5=10)
- Explain the reactions involved in Glycolytic pathway.
  - Describe glycogen storage diseases. (5+5=10)
- Explain the theories of enzyme action.
  - Note on 1) Co-enzyme 2) Isoenzyme (5+5=10)
- Explain the terms 1) Glycolysis 2) Glycogenesis 3) Gluconeogenesis  
4) Glycogenolysis
  - Explain qualitative test's for monosaccharides. (5+5=10)
- Note on factors affecting enzyme action.
  - Describe the conditions called 1) Glycosuria 2) Pentosuria (5+5=10)
- Define and classify carbohydrates with eg :
  - What is the biological importance of carbohydrates. (5+5=10)
- What is Michael-Menton Constant ? How is it related to affinity of enzymes.
  - What are hetero polysaccharides? Give eg: and give their biological importance (5+5=10)
- Describe the reactions of HMP pathway. What is it's significance.
  - Explain Cori's Cycle. (5+5=10)



# KMP COLLEGE OF PHARMACY

Asamannoor P.O., Poomala, Perumbavoor, Ernakulam, Kerala – 683 549

QP Code: **2021/1/I/E**

Reg. No.: .....

1 Year D. Pharm (2021 Batch) I Sessional Theory Examinations, Sep-2021

## HUMAN ANATOMY AND PHYSIOLOGY

Time: 3 hrs

Max. Marks: 80

- Answer any 8 questions
- All questions carry equal marks

- A) Draw the structure of human cell and label the parts. Write the functions of mitochondria?

B) Write the mechanism involved in the transport across the biological membrane? (5+5=10)
- A) Define tissue. Classify epithelial tissue; give important features of each.

B) Classify and explain different type of connective tissue? (5+5=10)
- A) Classify different types of WBC. Mention the function of each type?

B) What is the composition of blood and what are the functions of blood components? (5+5=10)
- A) Discuss about ABO blood grouping method?

B) Add a note on Rh group and its significance? (5+5=10)
- A) Explain the mechanism of coagulation? (5+5=10)

B) Distinguish between bleeding time and clotting time. What are the disorders affecting them?
- A) What is anemia? Classify anemia and give the cause of each type?.

B) Write a note on cardiovascular disorders? (5+5=10)
- A) Describe the structure of human heart. Write a note on the function of heart valves?

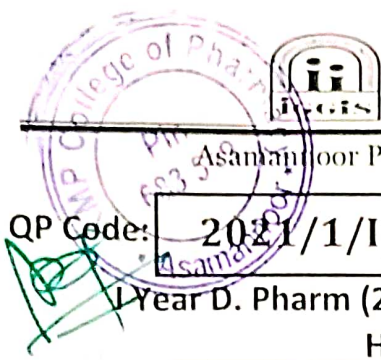
B) Write a note on electrocardiogram? (5+5=10)
- A) Discuss the different factors affecting the regulation of B.P?

B) Write a note on erythroblastosis fetalis? (5+5=10)
- A) Write a note on cardiac cycle? (5+5=10)

B) Enumerate the different protein present in the blood plasma and explain their function?
- A) Write a short note on lymph and lymph glands? (5)

B) Give normal physiological values of (1x5)

i. Platelet count ii. Hb iii. Total WBC iv. Stroke volume v. Heart rate



# KMP COLLEGE OF PHARMACY

Asambavoor P.O., Poomala, Perumbavoor, Ernakulam, Kerala - 683 549

QP Code: **2021/1/I/F**

Reg. No.: .....

Year D. Pharm (2021 Batch) I Sessional Theory Examinations, Sep-2021

## HEALTH EDUCATION AND COMMUNITY PHARMACY

Time: 3 hrs

Max. Marks: 80

- Answer any 8 questions
- All questions carry equal marks

1. A) Define health? Explain indicators of health?  
B) Explain the levels of prevention of disease? (5+5=10)
2. A) Discuss in detail determinants of health?  
B) Explain the concept of disease and its prevention? (5+5=10)
3. A) Write on fat soluble vitamins and their deficiency disease?  
B) Write a note on water soluble vitamins? (5+5=10)
4. A) Discuss disease induced due to deficiency of minerals?  
B) Classify foods and write about disease due to deficiency of proteins? (5+5=10)
5. A) Define family planning? Explain the hormonal contraceptive methods of family planning?  
B) Write a note on population problems of India? (5+5=10)
6. A) Write a short note on demography cycle? (5+5=10)  
B) Discuss the various behavioral and physical methods of family planning?
7. A) Write a note on management and emergency treatment for snake bite?  
B) Write a note on emergency treatment for burns? (5+5=10)
8. A) Write a note on emergency treatment for shock?  
B) Write a note on emergency treatment for poisoning? (5+5=10)
9. A) Write a note on emergency treatment for fracture? (5+5=10)  
B) Write a note on cardiac pulmonary resuscitation?
10. A) Write elements of minor surgery and dressing? (5)  
B) Define the following terms (1x5)
  - i. Health
  - ii. Physical health
  - iii. Disease agents
  - iv. Malnutrition
  - v. First Aid

.....