



## KMP COLLEGE OF PHARMACY

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

QP Code: 220106

Reg. No.: .....

**I Semester B.Pharm (2020 Batch) Degree II Sessional Examinations April 2021**  
**BP106RMT - Remedial Mathematics(2017 Scheme)**

Time: 1 hour 30min

Max. Marks: 30

• Answer all questions

### ESSAY

1. Solve the following system of equations using matrix method  
 $x-y+z=4$      $2x+y-3z=0$      $x+y+z=2$

(1x10=10)

### SHORT ANSWER

2. Find the inverse matrix of  $A = \begin{bmatrix} 3 & -2 & 3 \\ 2 & 1 & -1 \\ 4 & -3 & 2 \end{bmatrix}$
3. Find  $\frac{d}{dx}(x^2 \sec x)$
4. Find  $\frac{d}{dx}\left(\frac{\sqrt{x}}{\operatorname{cosec} x}\right)$
5. Find  $\frac{d}{dx}(5\cos x + 3\tan x)$

(4x5=20)

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

QP Code: **220101**

Reg. No.: .....

I Semester B. Pharm(2019 Batch) Degree II Sessional Examinations, April 2021

## Human Anatomy & Physiology(2017 Scheme)

Time: 1 Hr.30 Min.

Max. Marks: 30

- Answer all questions
- Draw diagrams wherever necessary

### ESSAY

(1x10=10 MARKS)

1. List out the cranial nerves explain its central and peripheral connections with its function

### SHORT NOTES

(2x5=10 MARKS)

2. What are clotting factors? Explain steps involved in clotting mechanism
3. Various layers of epidermis

### ANSWER BRIEFLY

(2x5=10 MARKS)

4. Function of skin
5. Formation of lymph
6. Erythropoiesis
7. Cell junction
8. Normal value with units a) Clotting time b) bleeding time c) RBC d) WBC

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QP Code: **220106**

Reg. No .....

I Semester B. Pharm (2020 Batch) Degree II Sessional Examinations, April 2021

**BP106RBT- Remedial Biology (2017 Scheme)**

**Time : I Hr. 30 Min.**

**Max. Marks : 30**

- Answer all Questions
- Draw diagrams wherever necessary

## Essay

(1x 10 = 10)

1. Explain in detail, what happens to food as it goes through mouth, esophagus, stomach, small intestine and large intestine

## Short Notes:

(2x5=10)

2. Explain five human digestive secretions? Which of them is the only one that does not contain digestive enzymes?
3. Dorsiventral and isobilateral leaves

## Answer Briefly:

(5x2=10)

4. What are stomata? Write important functions?
5. Role of pancreas in digestion
6. Salivary glands
7. Complex permanent tissues
8. Chlorenchyma and Collenchyma





QP Code: **220104**

Reg. No.: .....

I Semester B. Pharm(2019 Batch) Degree II Sessional Theory Examinations,  
April 2021

**Pharmaceutical Inorganic Chemistry I (2017 Scheme)**

Time: 1 Hr.30 Min.

Max. Marks: 30

- Answer all questions
- Draw diagrams wherever necessary

**Essay**

**(1X 10 = 10)**

1. Briefly explain buffer equations.

**Short Notes:**

**(2X5=10)**

2. Define antidotes. Give properties and uses of Sodium nitrite .
3. What are haematinics. Give the method of preparation and assay of anyone haematinic.

**Answer Briefly:**

**(5X2=10)**

4. Mechanism of action of astringent.
5. Properties and uses of universal antidote .
6. Assay of Ammonium chloride..
7. Pysiological role of Calcium.
8. Assay of Copper sulfate.

  
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QP Code:

220102

Reg. No.: .....

**I Semester B. Pharm (2020 Batch) Degree II Sessional Theory  
Examinations, April-2021**

**BP102T - Pharmaceutical Analysis (2017 Scheme)**

Time: 1 Hr.30 Min.

Max. Marks: 30

- Answer all questions
- Draw diagrams wherever necessary

### Essay

(1x10=10)

1. Define redox titration. Discuss in detail any four types of redox titrations

### Short Notes


(2x5=10)

2. Discuss the different types of conductometric titration curves
3. Steps involved in Gravimetric analysis

### Answer Briefly

(5x2=10)

4. Principle involved in Diazotisation titration
5. Define oxidation and reduction. What is the Nernst equation for a redox reaction
6. Conductivity cell
7. Define coprecipitation and post precipitation
8. Explain estimation of Barium sulphate

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

QP Code: **220103**

Reg. No.: .....

I Semester B. Pharm (2019 Batch) Degree II Sessional Examinations,  
April 2021

BP103T – Pharmaceutics-I (2017 Scheme)

Time: 1 Hr.30 Min.

Max. Marks: 30

- Answer all questions
- Draw diagrams wherever necessary

## Essays

(10 x 1 = 10)

1. What are suppositories? Classify different suppository bases used to the preparation of suppositories. Describe briefly each bases.

## Short Notes


(5 x 2 = 10)

2. Explain stability of Emulsion.
3. What are suspension? Write the qualities of an ideal suspension. How will you dispense a suspension containing dispersible solids.

## Answer Briefly

(2 x 5 = 10)

4. Define HLB value? Classify emulsifying agents?
5. Define the term Pessaries?
6. Define Displacement value? How will you calculate the displacement value of drug?
7. Differentiate between flocculated and deflocculated suspension?
8. Define Emulsion? Write the test for identification of emulsion?

  
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QP Code:

**220105**

Reg. No.: .....

**I Semester B. Pharm (2020 Batch) Degree II Sessional Theory  
Examinations, April 2021**

**BP105T – Communication Skill (2017 Scheme)**

Time: 1 Hr.30 Min.

Max. Marks: 30

**ESSAY**

- I. "Writing skills is considered as one of the important communication skills." Describe it. **10x1=10**
  
- II. **Answer the following questions in a paragraph  
5x4=20**
  1. What is an interview? What is the purpose of conducting an interview?
  2. What are the four P's of oral presentation?
  3. What is listening? What is the difference between listening and hearing?
  4. What are the points one must keep in mind in order to write effectively?

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