KMP COLLEGE OF PHARMACY

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

QP Code: | 2019/1/II/1.1 | Reg. No.: ....

I Year D. Pharm (2019 Batch) II Sessional Theory Examinations, Jan-2021

Pharmaceutics –I

Time: 3 hrs   Max. Marks: 80

• Answer any 8 questions
• Draw diagrams wherever necessary

1. a) What is evaporation

   b) Mention the factors affecting evaporation.   (2+8)

2. Describe the working condition of the following equipments

   a) Evaporating pans

   b) Evaporating still   (5+5)

3. Write about simple distillation and fractional distillation   (10)

4. Write about purified water IP and the working of still.   (10)

5. a) What is sterilization

   b) Mention the difference between sterilization and disinfection. (2+2+6)

   c) Write about thermal resistance of microorganisms.

6. a) Describe the methods of sterilization.

   b) Explain Dry heat sterilization and moist heat sterilization.   (2+8)

7) Write about some immunological products and their preparation.   (10)

8) Detail about steam distillation and vaccum distillation   (10)

9) Explain the working condition of tray dryer and fluidized bed dryer. (5+5)

10) Write about sterilization by filtration   (10)

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QP Code: | 2019/1/II/1.2 | Reg. No.: ....

I Year D. Pharm (2019 Batch) II Sessional Theory Examinations, Jan-2020
PHARMACEUTICAL CHEMISTRY - I

Time: 3 hrs   Max. Marks: 80

- Answer any 8 questions
- All questions carry equal marks

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1. Write notes on
   a) Radiopharmaceuticals.
   b) How is Radioactivity measured? Explain the working of Geiger Muller Counter.

   (5+5=10)

2. a) Write on official compounds of Iodine. Mention their uses and formula.
   b) Describe the two identification tests for (i) Magnesium (ii) Acetate.   (5+5=10)

3. (a) Draw a neat labeled diagram of Gutzeit apparatus and explain the principle with reactions.
   (b) Sources of impurities in pharmaceuticals.   (5+5=10)

4. a) Give one example each for (i) Radio opaque contrast media (ii) Antioxidant (iii) Electrolyte Replenisher (iv) Buffer solution (v) Radioisotope.
   b) What is the importance of quality control? What are the different methods used for quality control?   (5+5=10)

5. a) What is Radioactivity? What are the precautions to be taken while handling radioisotope preparations?
   b) Radio opaque contrast media.   (5+5=10)

6. a) Give the uses of following compounds (i) Sodium bisulphite (ii) Ammonuim hydroxide (iii) Sodium citrate (iv) Barium sulphate (v) Ferrous sulphate.
   b) What is the chemical formula of Boric acid? Mention its physical properties, uses, labeling requirements and storage.   (5+5=10)

7. a) Explain briefly the major buffer systems in the body which maintain physiological acid-base balance.
   b) Oral Electrolyte powders.   (5+5=10)

8. a) Write on official compounds of Calcium. Mention their uses and formula.
   b) How will you carry out the limit test for Chlorides?   (5+5=10)

9. Write the reasons for a) using thioglycolic acid in limit test for Iron.
                          b) white precipitate in limit test for Chlorides.   (5+5=10)

10. a) ORS.
    b) How will you carry out the limit test for Sulphates?   (5+5=10)

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QP Code: | **2019/1/II/1.3** | Reg. No.: ………………….

I Year D. Pharm (2019 Batch) II Sessional Theory Examinations, Jan-2021
PHARMACOGNOSY

Time: 3 hrs   **Max. Marks: 80**

- Answer any 8 questions
- All questions carry equal marks

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1. Write the Biological source, morphology, microscopy, chemical constituents and uses of Cinchona.   (10)

2. Write a note on Antidiabetic drugs with examples.   (10)

3. A) Write a note on oxytocics. With examples

    B) Give 2 example for each category

        i) diuretics   ii) anti septics   iii) enzymes   (4+6=10)

4. A) Preparation of shark liver oil.

    B) Isolation of Papain.   (5+5=10)

5. Write the chemical test for

    a) Myrrh   b) Benzoin   c) Starch   d) Tragacanth   (2.5X4=10)

6. A) Write a note on types of starch.

    B) Sandal wood oil.   (6+4=10)

7. Write the biological source of :

    i) Honey   ii) Diastase   iii) Amla iv) Garlic   v) Shatavari   (2X5=10)

8. Therapeutic uses of : i) Acacia ii) Tobacco   iii) Diascorea iv) Lemon grass oil

    v) Myrrh   (2X5=10)

9. A) Licorice

    B) Diascorea   (5+5=10)

10. A) Preparation & chemical test of gelatin.

    B) Antidysenterics .   (5+5=10)

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QP Code: | **2019/1/II/1.4** | Reg. No.: ....

I Year D. Pharm (2019 Batch) II Sessional Theory Examinations, Jan-2021
BIOCHEMISTRY & CLINICAL PATHOLOGY

Time: 3 hrs   Max. Marks: 80

Instructions :
1. *Attempt any Eight questions.*
2. *Make suitable assumptions wherever necessary.*
3. *Figures to the right indicate full marks.*

Q₁   a) Explain the followings (Any One)   5+5=10
1) Michaelis—Menten Constant   2) Xerophthalmia
    b) Therapeutic importance of enzymes?

Q₂   Short note on, (Any one)   5+5=10
    1) Apoenzyme   2) Active site

Q₃   a) Define enzyme and give its classification.   5+5=10
    b) Explain the mechanism of action for enzyme action.

Q₄   a) List the factors affecting enzyme action and explain any two.   5+5=10
    b) Note on chemistry of enzymes.

Q₅   a) Give the chemistry of Vitamin D.   5+5=10
    b) Define vitamins and give classification with examples.

Q₆   a) Note on vitamin K.   5+5=10
    b) Describe the deficiency defects of vitamin E.

Q₇   a) Explain role of vitamin A in our life.   5+5=10
    b) Give chemistry of vitamin A.

Q₈   a) Note on lymphocytes.   5+5=10
    b) Explain the abnormal constituents of urine and give their significance in diseases.

Q₉   a) Biological role of carbohydrates.   5+5=10
    b) Note on essential fatty acids.

Q₁₀   a) Osazone formation in glucose   5+5=10
    b) Note on hydrogenation in oils

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QP Code: | 2019/1/II/1.5 | Reg. No.: ....

I Year D. Pharm (2019 Batch) II Sessional Theory Examinations, Jan-2021
HUMAN ANATOMY & PHYSIOLOGY

Time: 3 hrs

Max. Marks: 80

- Answer any 8 questions
- All questions carry equal marks

I.	(a)	Short note on neuromuscular junction	
	(b)	Structure of skeletal muscle.	(5+5=10)
II.	(a)	Structure of nerve system.	
	(b)	Explain the physiology of vision.	(5+5=10)
III.	(a)	Draw and label eye.	
	(b)	Draw and label ear.	(5+5=10)
IV.	(a)	Explain physiology of pain.	
	(b)	Structure and function of skin	(5+5=10)
V.	(a)	Structure and function of liver	
	(b)	Structure and functions of digestive system	(5+5=10)
VI.	(a)	Explain physiology of digestion	
	(b)	Name pituitary hormone.	(5+5=10)
VII.	(a)	Spermatogenesis	
	(b)	Write a note on Menstrual cycle	(5+5=10)
VIII.	(a)	Name the hormone released from adrenal gland	
	(b)	Physiology of ANS	(5+5=10)
IX.	(a)	explain Reflex arc with example	
	(b)	Write a note on thyroid hormone.	(5+5=10)
X.	(a)	Write a note on midbrain.	
	(b)	What are the layer present in intestine	(5+5=10)

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QP Code: 2019/1/II/1.6   **Reg. No.:** ....

I Year D. Pharm (2019 Batch) II Sessional Theory Examinations, Jan-2021
Health Education and Community Pharmacy

Time: 3 hrs.   **Max. Marks: 80**

- Answer any 8 set of questions
- Draw diagrams wherever necessary

Q1. (a) Define the following: (5 +5 = 10)

(i) Immunity (ii) Disinfection (iii) Epidemiology (iv) Immunization
(v) Microbiology

(b) Causative agents, mode of transmission and prevention of AIDS.

Q2. (a) Explain the process of isolation of microorganism   (5 +5 = 10)

(b) Add a note on dynamics of disease transmission

Q3. Causative agents, mode of transmission and prevention

(a) Leprosy (b) Malaria   (5 +5 = 10)

Q4. (a) Define communicable diseases and explain the different mode of
transmission of communicable diseases

(b) Explain the staining techniques of organisms   (5 +5 = 10)

Q5. Causative agents, mode of transmission and prevention.

(a) Chicken pox (b) poliomyelitis   (5 +5 = 10)

Q6. (a) Tuberculosis.

(b) National Immunization Schedule   (5 +5 = 10)

Q7. Causative agents, mode of transmission and prevention.

(a) cholera (b) Rabies   (5 +5 = 10)

Q8. (a) Principles of disease control and prevention

(b) Explain the different methods of disinfection   (5 +5 = 10)

Q9. (a) Explain in type of disinfection procedures for   (5 +5 = 10)

(i) sputum (ii) room

(b) Prevention and control of Hospital acquired diseases

Q10. (a) Write the causative agent for   (5 +5 = 10)

(i) whooping cough (ii) Gonorrhoea (iii) Typhoid (iv) measles (v) plague

(b) Define Non-communicable diseases. Add a note on Hypertension