D. Pharm Part (I) SUPPLEMENTARY ***2022***

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO.
QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

PHARMACEUTICS

Full Mark -80 ***Time -3 hrs***

(Answer any five questions including question No. 1)

1. ***(A) Fill in the blanks:*** *[1x5]*

   i) A liquid oral preparation taken as a single dose is called as _____.

   ii) Milk is sterilised by _____ method.

   iii) The tablet which are placed below the tongue is known as _____ tablet.

   iv) Cork is obtained from the bark of _____tree.

   v) The dried BCG vaccine retains its potency for one year when stored at a temperature of _____.

   (B) Differentiate between the following: *[2x5]*

   i) Lotion & Liniment.

   ii) Purified Water & water for Injection.

   iii) Aristas & Asavas

   iv) Emulsion & Suspension.

   v) Vaccine & Toxoids

   (C) *Define the followings;* *[1X5]*

   i) Slug ii) Lozenges iii) Pessaries iv) Enemas v) Aerosol

2. *Define sterilization. Describe the various method of sterilization. Explain about dry heat & moist heat sterilisation with neat & labelled diagram* *[2+3+10]*

3 *Write Short Notes (Any three)* *[3X5]*

   i. Factors affecting Evaporation

   ii. Glass Container with its advantages, disadvantages, composition & types.

   iii. Indian Pharmacopoeia *iv. Factors affecting rate of Filtration*

4. *Define tablet. Discuss different tests which are performed to assure the quality control of tablets.* *[2+13]*

5. *Define drying and write down the applications. Enumerate the theory, construction, working, advantages, disadvantages and uses of freeze-drying process.* *[2+3+10]*

6. *Explain the following (Any Three)* *[3X5]*

   (With labelled diagram+ Principle+ Advantages+ Disadvantages+ Uses)

   i) Fluid energy mill *ii) Cyclone separator*

   iii) Soxhlet apparatus *iv) Fluidised bed Dryer*

7. *Define & Classify Immunity. Differentiate between Active Immunity & Passive Immunity. Describe the preparation of Small Pox Vaccine.* *[2+3+10]*

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OSBP

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PHARMACEUTICAL CHEMISTRY – I (Theory)

Full Mark -80 **Time -3 hrs**

(Answer any five questions including question No. 1)

1. **(A) Write the synonym of the following compounds:** [1x10]

   a) Magnesium Sulphate b) Hydrochloric acid c) Calcium Hydroxide d) Titanium Dioxide e) Mercury f) Iodine Solution g) Sodium Thiosulphate h) Kaolin i) Ferrous Sulphate j) Zinc Chloride

   (B) Define the following terms: [1x10]

   a) Astringent b) Bactericidal Agent c) Anticaries agent d) Achlorhydria e) Emollient f) Antacid g) Electrolyte h) Antidote i) Expectorant j) Lugol's solution

2. **Write short notes on any three:** [3x5]

   a) ORS b) Topical agent c) Saline Cathartics d) Cyanide poisoning

3. a) Define Radioactivity and Radio isotopes? What is half-life of a radioactive compound? What are the biological effects of radiation? [4+3+3]

   b) What are the applications of radioisotopes in Medicines. [5]

4. a) What are anti-infective agents? Distinguish between an antiseptic & disinfectant. Classify the antimicrobial agents. [2+2+5]

   b) Briefly discuss the various mechanism of antimicrobial agents. [6]

5. a) What do you mean Physiological buffer? Write down the mechanism of buffer action. [1+6]

   b) Write the Chemical formula, physical & chemical properties & use of: [4+4]

   (I) Boric Acid (II) Sodium Hydroxide

6. Write short note on:(All three) [5x3]

   i) Antioxidants

   ii) Ideal antacid

   iii) Test of Purity

7. Differentiate between:(All Five) [3x5]

   (i) Isotope & Isobar

   (ii) Milk of Magnesia & Milk of Lime

   (iii) Weak Iodine Solution & Strong Iodine Solution.

   (iv) Acidosis & Alkalosis.

   (v) Hypertonic Solution & Hypotonic Solution

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PHARMACOGNOSY – I (Theory)

Full Mark -80 **Time -3 hrs**

(Answer any five questions including question No. 1)

1. **(A) Write the biological source of the following crude drugs:** [1x10]

   i) Senna ii) Vinca iii) Guggul iv) Castor oil v) Chaulmoogra oil

   vi) Rauwolfia vii) Tulsi viii) Opium ix) Myrrh x) Cinchona

   (B) Write the important uses of following crude drugs: [1x10]

   i) Arjuna ii) Aconite iii) Aloe iv) Asafoetida v) Beeswax

   vi) Black pepper vii) Catechu viii) Digitalis ix) Neem x) Nux-vomica

2 **Write the synonyms, biological source, chemical constituents and uses of following drugs:** [5x3]

   i) Ipecacuanha ii) Ashwagandha iii) Liquorice

3. Define glycosides. Name the five glycoside containing drugs. Write the official sources, chemical constituents and microscopical features of Senna. [2+5+8]

4. i) Define fibre. Classify them with suitable examples. Write the biological source and preparation of cotton? [1+3+2+4]

. ii) Write a note on Regenerate Fibre [5]

5. Answer any three: [5x3]

   i) Adulteration of crude drug ii) Collection & Preparation of Ergot

   iii) Isolation of Volatile oils iv) Identification tests of Alkaloids

6. Write notes on (any three): [5x3]

   i) Physical evaluation of drugs ii) Umbelliferous fruits

   iii) Borntrager test iv) Lycopodium Spore Method

7. A) Define crude drugs. [2]

   B) Write down the morphological &pharmacological classification of crude drugs with example. [8]

   C) Write down the different methods of evaluation of crude drugs. [5]

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HUMAN ANATOMY & PHYSIOLOGY – I (Theory)

Full Mark -80 **Time -3 hrs**

(Answer any five questions including question No. 1)

1. A) Fill in the Blanks: [2x5=10]

i) Appendicular skeleton contains _____ no. of bones & Axial Skeleton contains _____ no. of bones.
ii) _____ is suicidal bag & _____ is called power house of the cell.
iii) In nervous system there are _____ pairs of spinal nerve & _____ pairs of cranial nerve.
iv) _____ is the smallest bone & _____ is the largest bone in human body.
v) Absorption, Secretion and filtration is the function of _____ tissue & _____ tissue is responsible for supporting the organ.

B) Write short notes on: [2x5]

(i) Erythroblastosis fetalis (ii) Mitochondria (iii) Tidal Volume (iv) Neuron (v) Nephron

2. Describe the different chambers of Heart. How circulation takes place with in it. Define Cardiac output [5+8+2]

3. Enumerate the different parts of female genital organ with neat labelled diagram. Write in details about the menstrual cycle [5+5+5]

4. Define Excretion. Draw a neat diagram of urinary tract. Write the mechanism of urine function. [2+5+8]

5. Briefly describe the functions of different parts of brain. [15]

6. Define excretion. Draw a neat diagram of urinary tract. Write the mechanism of urine formation [2+5+8]

7. **Write short notes on any three of the following:** [5x3]

i) Mechanism of respiration
ii) Spleen
iii) Hypothalamus
iv) Pituitary gland

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BIO-CHEMISTRY & CLINICAL PATHOLGOY

Full Mark -80 **Time -3 hrs**

(Answer any five questions including question No. 1)

1. A) Define the following terms: [2x5=10]

i) Enzyme inhibitors
ii) Hodgkin's & Non-Hodgkin's Lymphoma
iii) Glucose Tolerance Test
iv) Osteomalacia
v) Lymphocytosis

B) Fill in the blanks [1x10=10]

i) _____ is an invert sugar
ii) Deficiency of Niacin causes _____.
iii) Vitamin B7 is also known as _____.
iv) Deficiency of _____ causes rickets in children.
v)_____ plays an important role in night vision.
vi) _____ and _____are ketone bodies.
vii) Millon's test is done for _____.
viii) Deficiency of Vitamin C causes_____..
ix) Night Blindness is due to deficiency of _____ Vitamin.
x) The Co-enzyme of Riboflavin is _____.

2. Define Glycolysis & describe the steps involved in Embden Meyerhof Pathway with its energy calculation [1+9+5]

3. What are the normal & abnormal constituents of urine. Enumerate the abnormal constituents of urine with their clinical significance. [5+10]

4. A) Define and classify Enzymes and briefly mention the different diagnostic application of Enzymes. [2+4+4]

B) Write a short note on factors affecting enzyme action. [5]

5. A) Define Lipids & classify with example. [3+6]

B) Explain abut β oxidation of fatty acid. [6]

6. A) What are proteins? Classify them. [6]

B) What are the biological functions of proteins? [5]

C) Describe any qualitative test for proteins. [4]

7. **Write short notes on any three of the following:** [5x3]

i) Ring structure of Glucose ii) Polycythaemia
iii) Disorder of fat metabolism iv) Urea cycle v) Sickle Cell Anaemia

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HEALTH EDUCATION AND COMMUNITY PHARMACY

Full Mark -80 **Time -3 hrs**

(Answer any five questions including question No. 1)

1. A) Define the followings: [2x5]

i) First Aid

ii) Immunity

iii) Safe Period

iv) Vitamins

v) Demography

B) Expand the following abbreviations: [1x10]

i) BCG ii) MDT iii) IUCD iv) PEM v) TSH
vi) CSF vii) EEG viii) ECG ix) ICDS x) IHD

2. What do you mean by determinants of Health? Explain various determinants. [3+12]

3. a) Define family planning? Classify different methods of family planning. [2+5]
b) Briefly discuss the population problem in INDIA [8]

4. Define immunity and classify and explain various immunological preparations. [2+6+7]

5. a) Define Shock. Describe the first aid treatment for shock. [2+8]
b) Write the indications and the procedure of Cardio-pulmonary Resuscitation (CPR). [5]

6. a) Differentiate between communicable and non-communicable diseases. [6]

b) Write down the causative agent, mode of transmission and prevention of typhoid, malaria and AIDS. [9]

7. a) Briefly describe the process of disposing of solid waste. [6]

b) Explain in detail the sources, requirements, functions and deficiency diseases of calcium, iodine and Iron [9]

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