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ER91-PH–101

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BOARD DIPLOMA EXAMINATION, (ER-91)

MARCH/APRIL—2021

DPH - FIRST YEAR EXAMINATION

PHARMACEUTICS - I

Time : 3 hours] [*Total Marks* : 80

PART—A

4×5=20

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **four** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List out manufacturing defects of tablets.

2. Define the terms 'infusion' and 'decoction'.

3. Define the terms 'mixing' and 'homogenization'. Give examples.

4. What are vaccines? Mention their advantages.

5. What are the official sizes of hard gelatin capsules?

6. Write briefly on sugar coating.

7. What are isotonic solutions?

8. Write briefly on filter aids.

9. Write briefly on lotions and liniments.

10. Write short notes on official grades of powders.

PART—B

15×4=60

Instructions : (1) Answer *any* **four** questions.

(2) Each question carries **fifteen** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Define the term 'sterilization'. Mention different types of sterilization. Explain about hot air oven.

12. Define the term 'extraction'. Mention different methods of extraction process. Discuss about simple percolation.

13. What is distillation? Mention different types of distillation. Explain about fractional distillation.

14. What is drying and mention its importance? Explain about freeze-drying.

15. What are tablets? Explain about different granulation techniques.

16. What is immunity? Classify different types of immunity and write the preparation of BCG vaccine.

17. Define the term 'size reduction'. Describe the construction, working and applications of ball mill.

18. Define the term 'filtration'. Explain the construction, working and applications of filter press.

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BOARD DIPLOMA EXAMINATION, (ER-91)

MARCH/APRIL—2021

DPM - FIRST YEAR EXAMINATION

PHARMACEUTICAL CHEMISTRY

Time : 3 hours] [*Total Marks* : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. What are buffer solutions? Classify them with examples. 1+2=3

2. Define the terms *(a)* accuracy and *(b)* precision. 1½+1½=3

3. Write the formula, uses of *(a)* calcium gluconate and *(b)* aluminium hydroxide. 1½+1½=3

4. Write the principle involved in limit test for chlorides. 3

5. Name three inorganic compounds used in dental preparations. 3

6. Mention the conditions required for storage of oxygen. 3

7. List out the ingredients and uses of *(a)* Lugol's solution, *(b)* Weak Iodine solution and *(c)* Strong Iodine solution.. 1+1+1=3

8. Write the formula and chemical name of blue vitriol, green vitriol and white vitriol. 1+1+1=3

9. Define protectives and adsorbents and give an example each. 1½+1½=3

10. Give the biological effects of radiation. 3

PART—B

10×5=50

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. What are antacids? Write the chemical formula, properties, storage and uses of Magnesium trisilicate and Calcium carbonate. 2+4+4=10

12. Explain the limit test for Iron. 10

13. Write a note on the following : 5+5=10

(a) Physiological acid base balance

(b) Oral rehydration therapy

14. *(a)* Write the role of oxygen and carbon dioxide in biological system.

(b) Write a note on Astringents. 5+5

15. *(a)* Describe the method of measurement of radiations by Geiger-Müller counter. 5+5=10

(b) Write the applications of radioactive compounds in Pharmacy.

16. Write the properties, uses and storage conditions required for *(a)* Sodium thiosulphate and *(b)* Potassium permanganate. 5+5=10

17. Write the formula, physical and chemical properties, storage and uses of *(a)* Sodium Hydroxide and *(b)* Boric acid. 5+5=10

18. Write the identication tests for the following ions :

(a) Barium

(b) Acetate

(c) Bicarbonate

(d) Ferric

(e) Bromide. 2×5=10

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BOARD DIPLOMA EXAMINATION, (ER-91)

MARCH/APRIL—2021

DPM - FIRST YEAR EXAMINATION

PHARMACOGNOSY THEORY

Time : 3 hours] [*Total Marks* : 80

PART—A

5×4=20

Instructions : (1) Answer any **FIVE** questions.

(2) Each question carries **FOUR** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define and give two examples for Tannins.

2. Define antiseptics and disinfectants.Give two examples.

3. Define Laxatives and write the biological source of Senna

4. Write three identification tests for Agar.

5. Give the Biological Source, constituents and uses of Tobacco.

6. Define Anti Tussives .Give any two examples.

7. What is the importance of Sutures?

8. Write B.S. Constituents and uses of Aswagandha.

9. Write B.S. and uses of *(a)* Liquorice and *(b)* Clove.

10. Write B.S. and preparation of Aloe.

PART—B

3 X 20 =60

Instructions : (1) Answer *any* **THREE** questions.

(2) Each question carries **20** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Define and classify Alkaloids. Write the uses and identification tests for Alkaloids.

12. Explain various methods of Crude drugs classification.

13. Write the monograph of Coriander with labelled diagram.

14. Write B.S., microscopy with neat labelled diagram, constituents and uses of Fennel

15. Write the monograph of Cinchona with neat labelled diagram.

16. Write the B.S, Morphology, constituents, and uses of Digitalis.

17. Define Adulteration and explain various methods of Adulteration.

18. Write short note on the following :

(a) Importance of Perfumes and Flavouring agents

(b) Write the B.S. and identification tests for Gelatin

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BOARD DIPLOMA EXAMINATION, (ER-91)

MARCH/APRIL—2021

DPH - FIRST YEAR EXAMINATION

HUMAN ANATOMY AND PHYSIOLOGY

Time : 3 hours] [*Total Marks* : 80

PART—A

4×5=20

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **four** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Draw a neat labeled diagram of Heart.

2. Define and classify tissues.

3. Write a note on synovial joint.

4. Draw a neat labeled diagram of respiratory system.

5. Write a note on blood groups.

6. Write the disorders associated with the secretion of growth hormone from pituitary gland.

7. Draw a neat labeled diagram of cross-section of eye.

8. Write note on spleen.

9. Draw a neat labeled diagram of nephron.

10. Draw a neat labeled diagram of brain.

PART—B

Instructions : (1) Answer *any* **four** questions. 4 x 15=60

(2) Each question carries **fifteen** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Describe the structure and functions of cell with a neat labeled diagram. 15

12. Write about the following : 4+8+3

(a) definition of blood and its functions

(b) structure of heart

(c) clotting of blood

13. Define and classify joints and describe different joints of skeleton. List out various joint disorders. 15

14. Write about the following : 4+3+4+4

(a) mouth-to-mouth breathing

(b) respiratory muscles

(c) lungs

(d) physiology of respiration

15. Describe various parts of urinary system with a neat diagram. 15

16. Draw the cross-section of eye and describe the structure of eye and physiology of vision. 15

17. Write about the following : 3+4+4+4

(a) meninges of brain

(b) transverse section of spinal cord

(c) list of cranial nerves

(d) reflex arc

18. Describe the following : 7+8

(a) structure of female reproductive system with a neat labeled diagram

(b) secretions and functions of pituitary gland

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BOARD DIPLOMA EXAMINATION, (ER-91)

MARCH/APRIL—2021

DPH - FIRST YEAR EXAMINATION

HEALTH EDUCATION AND COMMUNITY PHARMACY

Time : 3 hours] [*Total Marks* : 80

PART—A

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **four** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define and state the importance of Health Education. 4

2. Define nutrition and food. 4

3. State the importance of family planning on health. 4

4. What is the first aid given in burns? 4

5. What are airborne diseases? Give examples. 4

6. What are the disease causing agents and symptoms of *(a)* chicken pox and *(b)* measles? 2+2

7. Define the following terms : 2+2

(a) epidemiology

(b) immunity

8. Define the following terms : 2+2

(a) antigen

(b) antibody

9. Write the composition of oral rehydration salt. 4

10. Write about gram staining. 4

PART—B

Instructions : (1) Answer *any* **four** questions.

(2) Each question carries **fifteen** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Discuss different types of indicators of health. 15

12. Classify foods on the basis of source and nutritive value. Write the functions and requirements of proteins. 15

13. Define family planning and describe the natural and mechanical methods of family planning with advantages and disadvantages. 15

14. What do you mean by poisoning? Write a detailed note on fundamentals of poisoning management. 15

15. List out the major sources of water pollution. Describe the methods of purification of water. 15

16. Mention the causative agent, mode of transmission, symptoms and prevention of the following : 7+8

(a) diphtheria

(b) cholera

17. What is disinfection? Describe disinfection procedure for feces, urine, sputum, linen and instruments. 15

18. Describe the causative factors, prevention and control of *(a)* blindness and *(b)* coronary artery disease. 7+8

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BOARD DIPLOMA EXAMINATION, (ER-91)

MARCH/APRIL—2021

DPH - FIRST YEAR EXAMINATION

BIOCHEMISTRY AND CLINICAL PATHOLOGY

Time : 3 hours] [*Total Marks* : 80

PART—A

4×5=20

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **four** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define metabolism, catabolism and anabolism.

2. Name any three deficiency diseases of carbohydrate metabolism.

3. Name the three sulphur containing amino acids.

4. List out the water-soluble vitamins.

5. Write the functions of cholesterol.

6. Write the functions of blood.

7. Write differences between plant cell and animal cell.

8. What is the role of iodine in our body?

9. Write the significance of ketone bodies in abnormal urine.

10. What are endoenzymes?

PART—B

4×15=60

Instructions : (1) Answer *any* FOUR questions.

(2) Each question carries FIFTEEN marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Discuss any two protein deficiency diseases.

12. Write an account on diabetes mellitus.

13. Write the biological importance of lipids.

14. Write a note on krebs cycle.

15. Write a note on pharmaceutical importance of enzymes.

16. Describe the physiological role of vitamin D in our body.

17. Give an account on biochemical role and deficiency diseases of sodium in our body.

18. Write a note on platelets along with their importance and diseases due to low count.

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