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ER91-PH-201

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BOARD DIPLOMA EXAMINATION, (ER-91)
MARCH/APRIL-2018
DPH—SECOND YEAR EXAMINATION
PHARMACEUTICS—II

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. Define the following :
(a) Syrup
(b) Douche
(c) Elixir
1+1+1
2. Calculate child dose, if adult dose is 60 mg and the age of the child is 6 years. 3
3. Write the ideal requirements of shampoo. 3
4. Write the differences between lotions and liniments. 3
5. What is meant by displacement value? Write its significance. $1\frac{1}{2}+1\frac{1}{2}$
6. Write the composition of simple eye ointment base. 3

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7. Distinguish between flocculated and deflocculated suspensions. 3
8. What are mixtures? Classify different types of mixtures. $1\frac{1}{2}+1\frac{1}{2}$
9. Write briefly about pyrogen test. 3
10. Write about (a) vanishing cream and (b) cold cream. $1\frac{1}{2}+1\frac{1}{2}$

PART—B

10×5=50

Instructions : (1) Answer any five questions.

(2) Each question carries ten marks.

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

11. Define the term 'prescription'. Describe in brief various parts of the prescription. 2+8

12. Define the term 'incompatibility'. What are the different types of incompatibilities? What are the reasons for chemical incompatibility? How will you dispense the following prescription? Explain the incompatibility involved and suggest method to correct it.

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Sodium salicylate—4.0 gm

Quinine sulphate—0.12 gm

Dilute sulphuric acid—2.0 ml

Water up to 100 ml

Make a mixture.

2+2+2+4

13. Describe the term 'effervescent granules'. Write the method of preparation of 'effervescent granules'. 2+8
14. Define the term 'suspension'. Discuss in brief about the formulation of suspensions. 2+8

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15. Write the qualities of an ideal ointment base. Classify ointment bases. Mention different oleaginous bases and write their advantages and disadvantages. 2+2+6

16. Define the term 'dentifrice'. What are the qualities of a good dentifrice? Discuss the formulation of dentifrice. 2+2+6

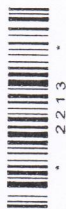
17. Define the term parenteral preparations. Write about the processing of parenterals. 2+8

18. Define the term 'emulsifying agent'. Write the qualities of an ideal emulsifying agent. Write the classification of emulsifying agent. 2+2+6

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BOARD DIPLOMA EXAMINATION, (ER-91)
MARCH/APRIL-2018
DPH—SECOND YEAR EXAMINATION
PHARMACEUTICAL CHEMISTRY—II

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. Write the structures of the following :

1+1+1

(a) Pyrimidine

(b) Indole

(c) Thiazolidine

2. Define analeptics. Give four examples.

1+2

3. Define and classify sulphonamides with examples.

1+2

4. Define antitubercular drugs. Give an example with its structure.

1+2

5. Write the properties and uses of quinidine.

3

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6. Define coagulants and anticoagulants with examples. 1½+1½

7. Define analgesics. Write the structure and nomenclature of aspirin. 1+2

8. Write the structure, properties and uses of halothane. 3

9. Define diagnostic agents. Give two examples with its uses. 1+2

10. Define and classify antidepressants with examples. 1+2

PART—B

10×5=50

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

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

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

11. Define antihistamines. Classify them. Write the structure, nomenclature, properties and uses of (a) chlorpheniramine and (b) diphenhydramine. 1+3+3+3

12. Define and classify antibiotics. Write the structure, nomenclature, properties, uses, official preparations and brand names of ampicillin. 2+4+4

13. Write the structure and nomenclature of (a) DEC, (b) dapsone, (c) paracetamol, (d) phenobarbitone and (e) chlorocresol. 2×5

14. Define diuretics. Classify diuretics. Write the structure, nomenclature, properties and uses of (a) furosemide and (b) mannitol. 1+3+3+3

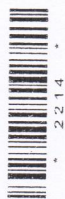
15. Define antimalarials. Classify them. Write the structure, nomenclature, properties and uses of (a) chloroquine and (b) pyrimethamine. 1+3+3+3

16. (a) Define and classify hypoglycemic drugs. Write the structure and nomenclature of any one drug. 1+2+2

(b) Define and classify antithyroid drugs. Write the structure and nomenclature of thyroxine. 1+2+2

17. Define adrenergic drugs. Classify them. Write the structure, nomenclature, properties and uses of (a) adrenaline and (b) isoprenaline. 2+2+3+3

18. Define local anaesthetics. Classify them. Write the structure, nomenclature, properties and uses of (a) lignocaine and (b) procaine. 2+2+3+3



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BOARD DIPLOMA EXAMINATION, (ER-91)

MARCH/APRIL-2018

DPH--SECOND YEAR EXAMINATION

PHARMACOLOGY AND TOXICOLOGY

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. List out various routes of administration of drugs. Write the advantages of oral route of administration. 2+1
2. What are anti-coagulants? Give examples. 3
3. What are the various stages of general anaesthesia? 3
4. Define the terms anti-spasmodics and cardiotonics with examples. 1½+1½
5. Write about heavy metal antagonists. 3
6. What is histamine? Write the physiological role of histamine. 1+2
7. Define the following : 1½+1½
 - (a) Therapeutic index
 - (b) Tachyphylaxis

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8. What are bronchodilators? Give examples. 3
9. What are antiviral drugs? Give examples. 3
10. Write about blood substitutes. 3

PART—B

10×5=50

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

- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. What are narcotic analgesics? Classify with examples. Write the pharmacological actions, adverse reactions and uses of morphine. 2+3+5
12. What is angina pectoris? Classify antianginal agents with examples. Write the pharmacological actions, adverse drug reactions and uses of any one antianginal drug. 2+3+5
13. Write short notes on the following : 5+5
 - (a) Oral contraceptives
 - (b) Anti-cholinesterases
14. Explain the following conditions : 2½×4
 - (a) Atherosclerosis
 - (b) Myriatic and miotics
 - (c) Myasthenia gravis
 - (d) Trichomoniasis
15. What are anti-cholinergic drugs? Classify with examples. Write the pharmacological actions, adverse drug reactions and uses of atropine. 3+3+4

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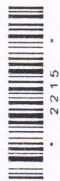
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16. What are hypnotics and sedatives? Classify with examples. Write the pharmacological actions, adverse drug reactions and uses of barbiturates. 3+3+4
17. Write short notes on the following : 5+5
 - (a) Multidrug therapy of tuberculosis
 - (b) Oral hypoglycemic agents
18. What are local anaesthetics? Classify with examples. Write the pharmacological actions, adverse drug reactions and uses of lidocaine. 2+2+6

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BOARD DIPLOMA EXAMINATION, (ER-91)

MARCH/APRIL-2018

DPH-SECOND YEAR EXAMINATION

PHARMACEUTICAL JURISPRUDENCE

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 the conditions to be followed to regulate the possession and sale of poisons? 3
2. Define misbranded drug as per the Drugs and Cosmetics Act, 1945. 3
3. What are education regulations as per the Pharmacy Act, 1948? 3
4. Define the terms 'chemists and druggists' and 'pharmacy'. $1\frac{1}{2} + 1\frac{1}{2}$
5. Define coca leaf and cannabis. $1\frac{1}{2} + 1\frac{1}{2}$

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6. What are the labelling requirements of an eye drop formulation? 3

7. What is opium? State its derivatives. 1½+1½

8. What are Schedule 'G' and 'H' drugs? Give two examples of each. 1+1+1

9. Define the term 'advertisement'. 3

10. What are (a) dutiable goods and (b) restricted preparations? 1½+1½

PART-B

10×5=50

Instructions : (1) Answer any five questions.

(2) Each question carries ten marks.

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

11. Explain the role of pharmacist in relation to his trade. 10

12. (a) What are first register and subsequent register?

(b) On what grounds can the name of a registered pharmacist be removed from the register? 3+3+4

13. Write the conditions for the grant of the license for the wholesale and retail sale of drugs. 3+3+4

14. Write the qualifications required for drugs inspector. Write the duties of drugs inspector in relation to sales and manufacture premises. 3+3½+3½

15. What are the advisory bodies under D & C Act? Write the constitution and functions of DTAB. 2+6+2

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16. Define absolute alcohol and denatured alcohol. Write about manufacture outside the bond. 2+8

17. Write short notes on the following : 6+4

(a) The Medical Termination of Pregnancies Act

(b) Duties of Govt. Analyst

18. (a) What is leader price? How is it fixed?

(b) How are the prices of bulk drugs fixed as per drugs (price control) order? 5+5

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BOARD DIPLOMA EXAMINATION, (ER-91)

MARCH/APRIL—2018

DPH—SECOND YEAR EXAMINATION

DRUG STORE AND BUSINESS MANAGEMENT

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. Define the term 'industry' and list out types of industries. 1+2
2. Write a short note on mail order business. 3
3. Define the term 'codification'. Write three advantages of codification. $1\frac{1}{2}+1\frac{1}{2}$
4. Define the terms 'maximum stock level' and 'minimum stock level'. $1\frac{1}{2}+1\frac{1}{2}$
5. Define the term 'window display'. Write three advantages of window display. $1\frac{1}{2}+1\frac{1}{2}$
6. Define the term 'recruitment'. Mention the sequence of steps involved in selection of a pharmacist. 1+2
7. Differentiate preference shares from ordinary shares. 3

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- * 8. Write about different types of accounts with examples. 3
9. Define the term 'trial balance'. Mention the objectives of trial balance. $1\frac{1}{2}+1\frac{1}{2}$
10. Define the term 'balance sheet'. Mention its importance. $1\frac{1}{2}+1\frac{1}{2}$

PART—B

10×5=50

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

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

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

11. Write the salient features of partnership firm. Describe advantages and disadvantages four of each. 6+4
12. ✓ Write about the following with their advantages and disadvantages three of each : $(2+1\frac{1}{2}+1\frac{1}{2})\times 2$
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- (a) Retail departmental store
- (b) Multiple shops or chain stores
13. Discuss the various legal requirements to be fulfilled to open a wholesale drug store. 10
14. What are inventories? Discuss about perpetual inventory system. How is this helpful in control of inventories along with the advantages? 2+8
15. Define the terms salesman and salesmanship. Discuss the qualities of a good salesman. 2+8
16. Define finance. Discuss the different methods to raise the finance. 2+8
17. What are financial statements? Explain in detail about Profit & Loss Account statement. 2+8
18. Define the term 'budgetary control'. Discuss in detail the different bases for classification of budgets. 2+8

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BOARD DIPLOMA EXAMINATION, (ER-91)

MARCH/APRIL—2018

DPH—SECOND YEAR EXAMINATION

HOSPITAL AND CLINICAL PHARMACY

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. Define patient compliance and non-compliance. 1½+1½

2. Define (a) general out-patient and (b) ambulatory patient. 1½+1½

3. Mention the functions of hospital pharmacy services. 3

4. Define drug information bulletin. Write its importance. 3

5. Mention the use of the following instruments in a hospital : 1+1+1

(a) Glucometer

(b) ECG machine

(c) Scalpel

6. Write the importance of Differential Leucocyte Count (DLC). 3

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- * 7. Mention the pathophysiology of congestive heart failure. 3
8. Define the words sailagogues, carminatives and counter-irritants. 1+1+1
9. Define the terms 'drug abuse' and 'drug habituation'. 1½+1½
10. Mention any three pharmacodynamic drug interactions. 3

PART—B

10×5=50

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

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

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

11. Define hospital and classify various types of hospitals. Write the functions of hospitals. 2+3+5
12. (a) What is meant by unit dose dispensing? Write its importance.
- (b) Discuss various methods of dispensing unit doses. 4+6
13. Define sterile products. What are the various facilities required for manufacture of sterile products? 2+8
14. Write about various applications of computer in pharmacy. 10
15. Discuss the pharmacopoeial standards of absorbent cotton. 10
16. Explain drug-drug interactions of the following categories of drugs : 5+5
- (a) Analgesics
- (b) Diuretics
17. Define the term 'bioavailability'. Write in detail the factors affecting bioavailability. 2+8
18. Mention the steps involved in the treatment of a case of poisoning. Classify various antidotes with suitable examples. 4+6

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