

This question paper contains 2 printed pages]

DP—04—2022

FACULTY OF SCIENCE AND TECHNOLOGY

B. Pharmacy (VIII Semester) EXAMINATION

NOVEMBER/DECEMBER, 2022

BIOSTATISTICS AND RESEARCH METHODOLOGY

(Tuesday, 27-12-2022) CBP 801T) Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :- (i) All questions are compulsory.

(ii) Answer to the point only.

(iii) Figures to the right indicate full marks.

(iv) Scientific calculators are not allowed.

1. (a) What are continuous variables and discrete variables ? 20
- (b) Calculate mean and mode :
25, 30, 50, 70, 30, 42, 48, 60, 30
- (c) What is the meaning of problem of multicollinearity ?
- (d) What is Histogram ?
- (e) State the reasons why sampling is used in research studies.
- (f) What is t-test ? When is it used and for what purpose(s) ?
- (g) State the various objectives of Research.
- (h) Enlist important informal and formal experimental designs.
- (i) What do you understand by term plagiarism ?
- (j) Mention the different types of report.

P.T.O.

9421380463
Dr. V. G. Khatri 8/12

2. Answer any *two* of the following : 2×10=20
- (a) Describe various phases of clinical trials and experimental designs used in clinical trials.
 - (b) Write a note on Regression modelling.
 - (c) Define sample size. What are the methods to determine sample size ?
3. Answer any *seven* of the following : 7×5=35
- (a) What does a measure of central tendency indicate ? Describe the important measures of central tendency.
 - (b) Explain in detail about plagiarism.
 - (c) Give the meaning of the following :
 - (i) Sample
 - (ii) Population
 - (iii) Sampling frame
 - (iv) Sampling design.
 - (d) What are the differences between Randomised control design and Non-randomised control design.
 - (e) Calculate mean, median, mode and standard deviation from the following data :

15, 16, 17, 18, 19, 20
 - (f) Write about hypothesis testing in simple and regression models.
 - (g) Write a note on research protocol.
 - (h) Write a note on Type-I and Type-II error.
 - (i) Describe various types of Research.

This question paper contains 2 printed pages]

DP—08—2022

FACULTY OF SCIENCE AND TECHNOLOGY

B. Pharm (VIII Semester) EXAMINATION

NOVEMBER/DECEMBER, 2022

SOCIAL AND PREVENTIVE PHARMACY

Paper BP802T

(Thursday, 29-12-2022)

Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Illustrate your answer with neat sketch wherever necessary.

(iii) Figures to the right indicate full marks.

1. Answer the following :

10×2=20

- (a) Define Health. Enlist concept of Health.
- (b) Write sign and symptoms of Ebola virus disease.
- (c) Define drug addiction and drug abuse.
- (d) Write objectives of national health intervention programme for mother and child.
- (e) Enlist various respiratory tract infections.
- (f) Define protein. Name any *two* protein deficiency diseases.
- (g) Write cause of malaria with symptoms.
- (h) Enlist school health related problems.
- (i) Write withdrawal symptoms of alcohol.
- (j) Define vitamin. Enlist types of vitamin.

P.T.O.

WT

(2)

DP—08—2022

2. Answer any *two* of the following :

2×10=20

- (a) What is preventive medicine ? Discuss National Malaria Prevention Program along with management of malaria patient.
- (b) Discuss socio-cultural factors related to health and disease.
- (c) Give general principles of prevention and control of diabetes mellitus.

3. Answer any *seven* of the following :

7×5=35

- (a) Explain concept of disease prevention.
- (b) Explain guidelines for cholera control.
- (c) Write a note on personal hygiene with its importance.
- (d) Discuss in short pulse polio programme.
- (e) Describe prevention and control of hypertension.
- (f) Explain national tobacco and control programme.
- (g) Write the name of vitamins of the following deficiency disease of :
 - (i) Scurvey
 - (ii) Rickets
 - (iii) Beriberi
 - (iv) Night blindness
 - (v) Pellegra.
- (h) Write about transmission, symptoms and treatment of Dengue Fever.
- (i) Write about immunization programme.

DP—08—2022

2

This question paper contains 2 printed pages]

DP—12—2022

FACULTY PHARMACEUTICAL SCIENCES AND TECHNOLOGY

B. Pharm (Fourth Year) (VIII Semester) EXAMINATION

NOVEMBER/DECEMBER, 2022

PHARMACEUTICAL MARKETING

(Saturday, 31-12-2022) (BP803T) Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Answer to the point only.

1. Answer the following :

10×2=20

- (a) What is product management ?
- (b) Define Pricing.
- (c) Define compensation.
- (d) What is Horizontal marketing ?
- (e) Enlist different methods of pricing.
- (f) What is product line ?
- (g) What is marketing environment ?
- (h) Define wholesaler.
- (i) What do you mean by NPPA ?
- (j) What is competitor analysis ?

P.T.O.

WT

(2)

DP—12—2022

2. Solve any *two* of the following :

2×10=20

- (a) What are different methods of Promotion ?
- (b) Write a detailed notes on types, advantages and disadvantages of Retailers.
- (c) Discuss in detail about new product development.

3. Solve any *seven* of the following :

7×5=35

- (a) Explain about materials of packaging.
- (b) Explain different stages of product life cycle.
- (c) How pharmaceutical companies price their drugs ?
- (d) Write the advantages of training the sale force.
- (e) Explain types of market research.
- (f) What are causes of channel conflict ?
- (g) Write a note on advertising.
- (h) What do you understand by promotional mix ? Discuss determinants of promotional mix.
- (i) Write a note on market segmentation and targeting.

DP—12—2022

2

This question paper contains 2 printed pages]

DP—16—2022

FACULTY OF PHARMACEUTICAL SCIENCE

B. Pharm. (Fourth Year) (Eighth Semester) EXAMINATION

JANUARY, 2023

PHARMACEUTICAL REGULATORY SCIENCE

(Thursday, 5-01-2023) (BP 804T) Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Answer to the point only.

(iii) Figures to the right indicate full marks.

1. Solve the following :

2×10=20

(a) Give types of ANDA filing.

(b) What happens if there are more than one ANDAs for a particular drug ?

(c) Define Independent Ethical Committee.

(d) What is target validation ?

(e) Give purpose of lead optimization.

(f) Give requirements for filling ANDA.

(g) What is exemption period for orphan drug.

(h) What is therapeutic good ?

P.T.O.

- (i) Give purpose for establishment of ICH.
- (j) What is Common Technical Document ?
2. Solve any *two* of the following : 10×2=20
- (a) Write ethical considerations in clinical research as per Belmont report.
- (b) Elaborate the process of filing NDA application.
- (c) Write submission procedure of Drug Master File.
3. Solve any *seven* of the following : 5×7=35
- (a) Write a note on clinical trials.
- (b) Describe *two* types of safety reports in the Investigational New Drug regulations.
- (c) Give the process of application for approval of generic product as per USFDA ?
- (d) Describe approval procedure of New Drug Application.
- (e) Write importance of drug regulatory affairs.
- (f) What is the difference between drug safety and pharmacovigilance ?
- (g) Write ethic principle of essentiality in Clinical research.
- (h) Write a note on 'types of submission subject to eCTD requirement'.
- (i) Write a note on Investigational New Drug.

This question paper contains 2 printed pages]

DP—22—2022

FACULTY OF PHARMACEUTICAL SCIENCES

B.Pharm (Final Year) (Eighth Semester) EXAMINATION

JANUARY, 2023

COSMETIC SCIENCE

Paper-BQ-809-ET

(Tuesday 10-01-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time— Three Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Draw the diagrams wherever necessary.

(iii) Figures to the right indicate full marks.

1. Solve the following :

10×2=20

(a) Give formula for tooth paste.

(b) Define the term Dermatitis.

(c) What are the causes of dry skin ?

(d) Mention different excipients used in cosmetics.

(e) Give ideal properties of Shampoos.

(f) Define Deodorants and Antiperspirants.

(g) Give the structure of Hair.

(h) Enlist common problems of oral cavity.

(i) Give the structure of skin.

(j) Define cosmetics and enlist any *four* marketed brands.

2. Solve any *two* of the following :

2×10=20

(a) Give formulation, manufacturing and evaluation of Soaps and Syndet bars.

P.T.O.

WT

(2)

DP—22—2022

- (b) Discuss in detail cosmetic problems associated with skin.
- (c) Explain in detail formulation, manufacturing and evaluation of shampoos.
3. Solve any *seven* of the following : 7×5=35
- (a) Discuss in brief role of Neem and Clove in oral care cosmetics.
- (b) Give the classification of Sunscreens.
- (c) Discuss in brief evaluation tests for tooth paste.
- (d) Explain advantages and disadvantages of vanishing creams.
- (e) Give the principle of sebumeter.
- (f) Describe in brief role of Aloe and turmeric in skin care cosmetics.
- (g) Write in brief about para-phenylene diamine based hair dye.
- (h) Give the formula and method of preparation of Cold Cream.
- (i) Discuss in brief Hair growth cycle.

DP—22—2022

2