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IP—04—2023

FACULTY OF SCIENCE AND TECHNOLOGY
B.Pharmacy (Eighth Semester) EXAMINATION

APRIL/MAY 2023

BIostatistics AND RESEARCH METHODOLOGY

(Thursday, 04-05-2023)

(BP801T)

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 marks.

(iv) Scientific calculator is not allowed.

1. Answer the following :

20

(a) Define the term probability.

(b) Give the application of biostatistics in pharmacy.

(c) Calculate the geometric mean of the numbers, 6, 8 and 9.

(d) Enlist types of graphs.

(e) Define level of significance.

(f) What is the need of research ?

(g) Calculate median from the following data :

$X = 16, 17, 19, 22, 27$

(h) What is null hypothesis and alteranate hypothesis ?

(i) What is SPSS and Minitab ?

(j) Define Cohort and case control study.

P.T.O.

2. Answer any *two* the following : 20

(a) Calculate variance and standard deviation from the following data :

C.I. = 40–45, 43–39, 28–33, 22–27, 16–21, 10–15.

F = 4, 6, 6, 4, 5, 3.

(b) Write a note on regression modelling.

(c) Explain in brief about sampling methods.

3. Attempt any *seven* of the following : 7×5=35

(a) Explain in detail phase of clinical trial design.

(b) Explain in brief various graphic methods of displaying data in research.

(c) Write a brief note on parametric and non-parametric test.

(d) What are the advantages and disadvantages of randomised control design.

(e) Define sample size. What are the methods to determine sample size?

(f) Describe experimental and non-experimental studies.

(g) Describe in brief research report.

(h) Calculate mean, standard deviation and variance from the following data :

X = 22, 24, 26, 28, 30, 32, 28, 26.

(i) Write in detail about hypothesis testing.

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IP—08—2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Pharm. (VIII Semester) EXAMINATION

APRIL/MAY, 2023

SOCIAL AND PREVENTIVE PHARMACY

Paper (BP-802T)

(Monday, 8-5-2023)

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

Time—Three Hours

Maximum Marks—75

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

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

(iii) **Figures to the right side indicate full marks.**

1. Answer the following :

20

(a) **Define Public Health.**

(b) **Which vitamin deficiency causes Beriberi ?**

(c) **What is community participation ?**

(d) **Enlist the vaccine name for infants.**

(e) **What is drug abuse ?**

(f) **What is mode of transmission of Ebola infection ?**

(g) **What are rich sources of Vitamin A ?**

(h) **Enlist different stages of hypertension.**

(i) **Write the etiological factor for malaria.**

(j) **What is Marasmus ?**

P.T.O.

2. Answer any *two* of the following :

20

- (a) Describe role of World Health Organization (WHO) in Indian National Programme.
- (b) Write a note on Nutrition and Food.
- (c) Discuss about PHC (Primary Health Centers).

3. Answer any *seven* of the following :

35

- (a) Write a note on National Leprosy Control Program.
- (b) Explain the National Family Welfare Program.
- (c) Discuss general principles of prevention and control of diabetes mellitus.
- (d) Discuss objectives, functioning and outcome of National Leprosy Control Programme.
- (e) Explain about Integrated Disease Surveillance Program (IDSP).
- (f) Write a note on pulse polio programme.
- (g) Explain the concept of personal hygiene and healthcare.
- (h) Discuss objectives, functioning and outcome of National blindness.
- (i) Discuss impact of urbanization on health and disease.

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IP—12—2023

FACULTY OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY

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

APRIL/MAY, 2023

PHARMA MARKETING MANAGEMENT (PHARMACEUTICAL MARKETING)

Paper—BP-803-ET

(Wednesday, 10-5-2023)

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

Time— Three Hours

Maximum Marks—75

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

(ii) Answer to the point only.

1. Answer the following questions :

10×2=20

- (a) Explain concept of marketing.
- (b) What is marketing environment ?
- (c) What is product branding ?
- (d) Explain product layers.
- (e) Enlist different methods of promotion.
- (f) Define pricing.
- (g) Define market segmentation.
- (h) Define quantitative market research.
- (i) What is Global Marketing ?
- (j) Define Consumerism.

2. Solve any *two* of the following :

2×10=20

- (a) Write a detailed note on types, advantages and disadvantages of wholesaler.
- (b) Explain in detail about product life cycle.
- (c) Write a detailed note on advantages and disadvantages of personal selling. What are different steps of personal selling ?

P.T.O.

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(2)

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3. Solve any *seven* of the following :

7×5=35

- (a) Explain types of market research.
- (b) Write advantages and disadvantages of Horizontal marketing.
- (c) Write a note on advertising.
- (d) What are types of consumer buying behaviour ?
- (e) What are functions of NPPA ?
- (f) What are different elements of branding ?
- (g) Write the advantages of salesforce.
- (h) Write a detailed note on medical exhibition in promotion.
- (i) What are functions of packaging ?

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IP—16—2023

FACULTY OF PHARMACEUTICAL SCIENCES

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

APRIL/MAY, 2023

PHARMACEUTICAL REGULATORY SCIENCE

Paper BP804ET

(Friday, 12-5-2023)

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

Time—Three Hours

Maximum Marks—75

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

(ii) *Answer to the point only.*

(iii) *Figures to the right indicate full marks.*

1. Solve the following :

10×2=20

(a) What is lead identification ?

(b) Mention regulatory bodies in Canada and Australia.

(c) Define Good clinical practice.

(d) Which information provided by Waxman-Hatch Act.

(e) Write *two* basic principles of ICH.

(f) Give objectives of World Health Organisation.

(g) What is ASSEAN common technical document research ?

P.T.O.

- (h) Mention names of any *four* members as an ICH parties.
- (i) Define independent ethical committee.
- (j) Give the composition of IRB.
2. Solve any *two* of the following : 2×10=20
- (a) Write functions of Indian Pharmacopoeia Commission.
- (b) Write ethical consideration in clinical research as per Belmont report.
- (c) Write constitution and functions of World Health Organisation.
3. Solve any *seven* of the following : 5×7=35
- (a) Give functions of state drug control authority in India.
- (b) Write a note on 'ANDA growth opportunities to generic pharmaceutical companies'.
- (c) Write a note on phases of clinical trials.
- (d) Write a note on organizational structure and functions of CDSCO and USFDA.
- (e) Mention *four* modules in CTD.
- (f) What is the purpose of ethical aspects clinical research ?
- (g) Describe new drug application.
- (h) Write a note on 'Therapeutic Goods Administration'.
- (i) Write functions of drug regulatory affairs department.

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IP—22—2023

FACULTY OF SCIENCE AND TECHNOLOGY

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

APRIL/MAY, 2023

COSMETIC SCIENCE

Paper BP 809 ET

(Wednesday, 17-5-2023)

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

Time—Three Hours

Maximum Marks—75

- N.B. :—**
- (i) All questions are compulsory.
 - (ii) Answer to the point only.
 - (iii) Figures to the right indicate full marks.
 - (iv) Illustrate your answers with neat sketch wherever necessary.

1. Solve the following : 10×2=20
- (a) Name any *four* marketed brands of cosmetics.
 - (b) Give formula for tooth paste.
 - (c) Enlist ideal properties of shampoos.
 - (d) What is dermatitis ?
 - (e) Mention common problems of oral cavity.
 - (f) Enlist herbs used in hair care cosmetics.

P.T.O.

- (g) What are the causes of dry skin ?
- (h) Give advantages of moisturising creams.
- (i) Give structure of hair.
- (j) Give mechanism of action of antiperspirants and deodorants.

2. Solve any *two* of the following :

2×10=20

- (a) Discuss in detail cosmetic problems associated with skin.
- (b) Give formulation, manufacturing and evaluation of shampoos.
- (c) Discuss in detail soap and syndet bars.

3. Solve any *seven* of the following :

7×5=35

- (a) Give classification of sunscreens.
- (b) Discuss in brief formulation of para-phenylene diamine based hair dye.
- (c) Describe in brief hair growth cycle.
- (d) Give role of Neem and clove in oral care cosmetics.
- (e) Give principles of cosmeometer.
- (f) Discuss role of Heena and Amla in hair care cosmetics.
- (g) Give formulation and manufacturing of deodorants and anti-perspirants
- (h) Give structure and functions of skin.
- (i) What are the causes of hair fall ?