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IM—04—2025

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2025

BIostatistics AND RESEARCH METHODOLOGY

(BP801T)

(Wednesday, 12-11-2025)

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

Time—3 Hours

Maximum Marks—75

N.B. :— (1) *All questions are compulsory.*

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

(3) *Write your answers to the point only.*

1. Answer the following :

10×2=20

(a) Define Biostatistics and give its significance.

(b) Calculate mean and mode :

20, 35, 50, 75, 40, 46, 65, 25, 80

(c) Define the term harmonic mean and give its symbolic expression.

(d) What do you mean by Research ?

P.T.O.



- (e) Enlist different types of graphs.
- (f) Define the following terms :
 - (i) Correlation
 - (ii) Regression.
- (g) What is Minitab and SPSS ?
- (h) Define cohort and case control study.
- (i) Enlist different types of reports.
- (j) What is Plagiarism ?

2. Answer any *two* of the following :

2×10=20

- (a) Explain in detail different types of Research.
- (b) Discuss in brief about sampling methods.
- (c) Describe in detail about Regression modelling.

3. Answer any *seven* of the following :

7×5=35

- (a) Write a note on Plagiarism.
- (b) Discuss Type-I and Type-II error.
- (c) Calculate mean, mode and median from the following data :

$$X = 14, 16, 18, 20, 24, 26$$

- (d) Explain various types of graphs used in research tools.



- (e) Discuss various phases of clinical trials in context of experimental design.
- (f) Define central tendency. Explain measures of central tendency.
- (g) Write a note on ANOVA.
- (h) Describe in detail observational studies.
- (i) Discuss in brief standard deviation, coefficient of variation, range and median.



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IM—08—2025

FACULTY OF PHARMACEUTICAL SCIENCE AND TECHNOLOGY

B.Pharm. (Eighth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2025

SOCIAL AND PREVENTIVE PHARMACY

Paper BP802T

(Friday, 14-11-2025)

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

Time—3 Hours

Maximum Marks—75

N.B. :— (1) *All questions are compulsory.*

(2) *Answer to the point only.*

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

1. Solve *all* the following :

10×2=20

(a) Define health.

(b) Give the importance of personal hygiene.

(c) Write about drug addiction.

(d) Describe the general principles, prevention and control of Dengue.

(e) What is SARS ?

(f) Which are the factors of poverty on health ?

P.T.O.



- (g) Explain prevention of cancer.
- (h) What is Lymphatic Filariasis ?
- (i) What is Night blindness ?
- (j) Write the objectives of National Tobacco Programme.

2. Solve any *two* of the following : 2×10=20

- (a) Explain different Vitamin deficiency, disorders and their prevention.
- (b) Define malnutrition. Write the causes, symptoms and its prevention.
- (c) Write a note on HIV and AIDS control programme.

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

- (a) Write a note on food in relation to nutrition and health.
- (b) What are the objectives of the national family welfare programme ?
- (c) What are the functions of primary health centers ?
- (d) Discuss in detail about universal immunization programme.
- (e) Write a note on balanced diet.
- (f) Write general principles, prevention and control of hypertension.
- (g) Write the objectives of pulse polio programme.
- (h) Write the objectives in improving rural sanitation.
- (i) Explain prevention and control of diabetes mellitus.

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IM—16—2025

FACULTY OF PHARMACEUTICAL SCIENCES

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

NOVEMBER/DECEMBER, 2025

PHARMACEUTICAL REGULATORY SCIENCE

Paper BP804ET

(Wednesday, 19-11-2025)

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

Time—3 Hours

Maximum Marks—75

N.B. :- (1) *All questions are compulsory.*

(2) *Answer to the point only.*

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

1. Answer the following questions :

10×2=20

(a) Enlist role of regulatory science in pharmaceutical industry.

(b) What is purple book ?

(c) Enlist different applications used for approval in EU.

(d) What is GCP ?

P.T.O.



- (e) Write down difference between innovator and generics.
- (f) Write full form of :
- (i) ANDA.
- (ii) ACTD.
- (g) Name the different regulatory authorities in India.
- (h) What is the difference between CTD and DMF ?
- (i) Write various objectives of clinical trials.
- (j) Enlist modules of CTD.

2. Answer any *two* of the following :

2×10=20

- (a) What is clinical trials ? Explain different stages of clinical trials.
- (b) Explain in detail regulatory approval process for ANDA.
- (c) Explain in brief about DMF system in India.

3. Answer any *seven* of the following :

7×5=35

- (a) Write a brief note on IND.
- (b) Discuss various ICH guidelines.
- (c) Give a note on pharmacovigilance and safety monitoring in clinical trials.
- (d) Write a note on preclinical studies.



- (e) Explain constitution and functions of Institutional Review Board.
- (f) Explain code of Federal regulation.
- (g) Discuss the stages of drug discovery process.
- (h) Write a note on different modules of DMF.
- (i) Differentiate between branded and generic products with suitable example.

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IM—22—2025

FACULTY OF PHARMACEUTICAL SCIENCES

B.Pharm. (Eighth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2025

COSMETIC SCIENCE

Paper BP809ET

(Monday, 24-11-2025)

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

Time—3 Hours

Maximum Marks—75

N.B. :— (1) All questions are compulsory.

(2) Answer to the point only.

(3) Figures to the right indicate full marks.

(4) Illustrate your answers with neat sketches wherever necessary.

1. Solve any *ten* of the following :

10×2=20

(a) Give formula for toothpaste.

(b) Define the term Dermatitis.

(c) What are the causes of dry skin ?

P.T.O.



- (d) Mention different excipients used in cosmetics.
- (e) Give ideal properties of shampoos.
- (f) Define Deodorants and Anti-perspirants.
- (g) Give structure of Hair.
- (h) Enlist common problems of oral cavity.
- (i) Give 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.
- (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 classification of Sunscreens.
- (c) Discuss in brief evaluation tests for toothpaste.



- (d) Give advantages and disadvantages of vanishing creams.
- (e) Give 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 formula and method of preparation of cold cream.
- (i) Discuss in brief Hair growth cycle.