QP Code: 821006 **Reg. No……**

Eighth Semester B. Pharm Degree Regular/Supplementary Examinations July 2024
Biostatistics and Research Methodology

(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. Define research and explain various types of research. List down criteria of good research.
2. Define data. Differentiate primary and secondary data. Explain the methods employed for data collection in research. (2+2+6)

Short Notes **(7x5=35)**

3. Describe the format for a research protocol.
4. Explain the statistical significance of P value.
5. Publication ethics.
6. Methods for presentation of data.
7. Explain epidemiology. Write note on epidemiology study design.
8. Measures used in epidemiology.
9. Steps involved in testing hypothesis using student's t test.

Answer Briefly **(10x2=20)**

10. Difference between type I and II errors.
11. Define impact factor.
12. Components of thesis.
13. Members in the institutional review boards.
14. Define null hypothesis with example.
15. Write the components in questionnaires.
16. Define cross over study.
17. Define randomized clinical trials.
18. Non-parametric tests.
19. What are measures of central tendency.

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QP Code: 822006 **Reg. No……**

Eighth Semester B. Pharm Degree Regular/Supplementary Examinations July 2024
Social and Preventive Pharmacy

(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. Define health and disease. Write the concepts and evaluation of public health
2. Discuss in detail about the national health intervention program for mother and child

Short Notes **(7x5=35)**

3. Socio cultural factors of health
4. Nutritional deficiency disorders
5. Prevention and control of Cholera
6. TB control and prevention program
7. Prevention and control of Malaria
8. National mental health program
9. Health promotion in school

Answer Briefly **(10x2=20)**

10. What are the social causes of disease
11. Balanced diet
12. Prevention of pneumonia
13. Promotion of elderly health care
14. Prevention of diabetes
15. Malnutrition prevention
16. Habit forming drugs
17. Rural sanitation and its impact
18. Prevention of chikungunya guinea
19. Impact of urbanization on health

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CORRECTION / NO-CORRECTION FILE

QPCODE: 822006 **Dated: 10-07-2024**

Question No.18

Modified as "Prevention of Chikungunya."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS

QP Code: 830006 **Reg. No…….**

Eighth Semester B. Pharm Degree Regular/Supplementary Examinations July 2024
Experimental Pharmacology

(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. (a) Define euthanasia. Explain the techniques of euthanasia.
   (b) Applications of different species and strains of common laboratory animals.
2. Briefly explain the preclinical screening models for anti-parkinsonism. Add a note on the animal models for antiasthmatics.

Short Notes **(7x5=35)**

3. Popular transgenic and mutant animals.
4. Rationale for selection of animal species for in vivo studies.
5. Preclinical screening models for sedatives and hypnotics.
6. Explain on rotarod and inclined plane experiments in animal models.
7. Define and classify diabetes. Enlist the preclinical screening models for type 1 and type 2 diabetes.
8. Explain a screening method for anticancer activity.
9. Students ‘t’ test.

Answer Briefly **(10x2=20)**

10. Cavia porcellus and Oryctolagus cuniculus laboratory animals.
11. Techniques of blood collection.
12. List the screening models for antipyretics.
13. Enlist the preclinical screening models for drugs acting on eye.
14. Explain any one model for screening of anticoagulant activity.
15. What is the importance of sham control.
16. Lipschitz test.
17. Define null and alternate hypothesis.
18. What is CPCSEA and write down its functions.
19. How to represent statistical data in a pie diagram.

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QP Code: 825006 **Reg. No……**

Eighth Semester B. Pharm Degree Regular/Supplementary Examinations July 2024
Pharmacovigilance

(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. Write in details about expedited reporting.
2. Explain vaccine failure. Define spontaneous reporting method and describe the characteristics and advantages and disadvantages of this method.

Short Notes **(7x5=35)**

3. Explain the different methods of casuality assessment.
4. Describe five categories of Adverse Events Following Immunizations (AEFIs)
5. Explain the post marketing surveillance phase of drug development
6. Describe the importance of drug safety monitoring.
7. Explain communication with regulatory agencies and business partners.
8. Explain WHO international drug monitoring programme.
9. Discuss the role of D & C Act in pharmacovigilance of India.

Answer Briefly **(10x2=20)**

10. Define daily defined doses.
11. What are the therapeutic classification of drugs.
12. Write the pharmacovigilance of vaccines.
13. Explain Med DRA.
14. Define Contract Research Organizations.
15. Define CDSCO.
16. What is stimulated reporting in pharmacovigilance.
17. What is CIOMS working groups.
18. Case control study.
19. Explain sentinel sites in active surveillance.

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QP Code: 826006 **Reg. No……**

Eighth Semester B. Pharm Degree Regular/Supplementary Examinations July 2024
Quality Control and Standardization of Herbals

(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. Discuss the ICH guidelines for quality control of herbal drugs.
2. Discuss the methods of stability testing for herbal drugs in detail.

Short Notes **(7x5=35)**

3. Describe the method to determine the aflatoxin content in herbal drugs.
4. Explain the best practices in the collection of herbal drugs as per GACP with suitable examples.
5. Significance of various physical constants in quality control of herbal drugs.
6. Discuss the guidelines for assessing the safety and efficacy of herbal drugs.
7. Explain the various development techniques in TLC.
8. Discuss the role of markers in the standardization of herbal drugs.
9. Describe the procedure to determine the pesticide residue in herbal drugs.

Answer Briefly **(10x2=20)**

10. What are tannins.
11. Define stomatal index.
12. Objectives of GMP.
13. Chemical tests for phytosterols.
14. Define herbal medicine.
15. Define pharmacovigilance.
16. Application of GC.
17. Significance of qualitative microscopy.
18. Detection of flavonoids.
19. Acid insoluble ash.

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CORRECTION / NO-CORRECTION FILE

QPCODE: 829006 **Dated: 23-07-2024**

Question No.10

Replaced with "Significance of clove in oral care."

Question No.13

Replaced with "TEWL."

Question No.19

Replaced "Hair tensile strength."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS

QP Code: 829006 **Reg. No……**

Eighth Semester B. Pharm Degree Regular/Supplementary Examinations July 2024
Cosmetic Science

(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. Define classify and write applications of preservatives.
2. Explain in detail ingredients used in conditioning shampoo.

Short Notes **(7x5=35)**

3. Write in detail about the different uses of turmeric in skin care.
4. Write the principle and applications of Corneometer.
5. What are sunscreens. Write a note on SPF.
6. Explain various causes of oily skin.
7. Give the causes of hair dandruff and hair loss.
8. Explain role of herbs in cosmetics.
9. What are the common problems associated with teeth and gums.

Answer Briefly **(10x2=20)**

10. Bad Breath.
11. Enlist functions of skin.
12. Enlist the ingredients used in anti-dandruff shampoo.
13. Exfoliants.
14. What are the ideal qualities of sunscreen agents.
15. What are teeth whitening agents.
16. Write the mechanism of antiperspirants.
17. Prickly heat.
18. What are blemishes.
19. Hair surface porosity.

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