

Registration No :

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Total Number of Pages : 02

Course: B.Pharma  
Sub\_Code: BP801T

8<sup>th</sup> Semester Regular/Back Examination: 2022-23  
SUBJECT: Biostatistics and Research Methodology  
BRANCH(S): B.Pharm

Time : 3 Hour  
Max Marks : 75  
Q.Code : M004

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

(2 x 10)

Q1 Answer the following questions :

- Explain the Type-I and Type-II error of the Test of Significance.
- Differentiate between statistic and parameter in Biostatistics.
- Define and give the formula of standard deviation.
- In a distribution, the Mode and Mean are 25 and 28 respectively. Find out the value of median.
- Give the mode for the following data set 200, 205, 205, 201, 199, 195, 202, 205, 205, 207 with justification.
- Define Equally likely events in probability.
- Define a Pie chart.
- Define and explain the term "Level of significance".
- Define Descriptive and Inferential statistics.
- Give the formula for Binomial distribution.

Part-II

(5 x 7)

Q2 Focused-Short Answer Type Questions- (Answer Any Seven)

- Write a brief note on Student t-test.
- Write a note on Least significant Difference.
- Write a note on the different properties of a Normal Distribution Curve.
- Write a note on ANOVA and write the F ratio table for One way ANOVA.
- Write short notes on (a) Experimental Research (b) Ethnographic Research
- Write notes on Karl Pearson method of Correlation analysis.
- Give the regression equation of Y on X and X on Y for the following data set

X- 6 2 8 4 10

Y- 7 9 5 6 8

- Define population and sampling in Biostatistics. Write a note on different types of sampling.
- Write a note on the advantages of  $2^2$  factorial design.



### Part-III

#### Long Answer Type Questions (Answer Any Two)

- Q3 a) Differentiate between Parametric and Non-Parametric Tests. (5)  
b) Write a brief note on Wilcoxon Rank Sum Test and Kruskal-Wallis test. (5)
- Q4 Write a brief note on (10)  
(a) Need for Research  
(b) Plagiarism
- Q5 Write Short notes on (10)  
(a) Histogram  
(b) Cubic graph  
(c) Counter Plot graph
- Q6 To study the performance of three different formulations of a drug and three different water temperatures the following dissolution readings were obtained with the equipment (10)

WATER TEMPERATURE	A	B	C
Cold Water	47	45	50
Warm Water	39	42	52
Hot Water	44	36	48

Perform a 2 Way ANOVA , using 5% level of significance  
(Given-  $F_{0.05}(2,4) = 6.94$ )



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Course: B. Pharm  
Sub\_Code: BP802T

8<sup>th</sup> Semester Regular/Back Examination: 2022-23  
SUBJECT: SOCIAL AND PREVENTIVE PHARMACY  
BRANCH(S): Pharmacy  
Time : 3 Hour  
Max Marks : 75  
Q. Code: M015

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II and  
Any two from Part-III.

The figures in the right hand margin indicate marks.

**Part-I**

**Q1 Answer the following questions : (2 x 10)**

- What are the causative agents of malaria?
- What is Anemia? Mention the reasons of anemia.
- What are the mode of transmission of Covid?
- What are avoidable habits? Give two examples.
- What is IDSP? Mention the significance.
- Expand the term NVBDCP. Write the role of it.
- Write the treatment protocol of Filaria.
- A person is having deficiency of vitamin B12. What possible diseases he/she is likely to suffer?
- Write the cause and symptoms of Whooping cough.
- Write shortly on national leprosy control programme.

**Part-II**

**Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (5 x 7)**

- Write short note on EVD.
- Write short note on National Family welfare program.
- Give a detail idea on drug abuse and drug addiction.
- Write a note on personal Hygiene and its importance.
- What do you mean by Balanced Diet? Write the Table for Adult and Children.
- How to prevent Malnutrition in India?
- Write briefly on Aids Control Program of India.
- Write the functions of PHC.
- Write Short note on NRHM.

**Part-III**

**Long Answer Type Questions (Answer Any Two)**

- Q3 Write Briefly on impact of poverty on Health and Diseases. (10)
- Q4 Write the cause, symptoms, mode of transmission and treatment of Cholera. (10)
- Q5 What is immunization? Give a detail report on universal immunization Programme. (10)
- Q6 Write the role of WHO in relation to national programs of India. (10)



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Course: B.Pharm  
Sub\_Code: BP805ET

8<sup>th</sup> Semester Regular Examination: 2022-23

SUBJECT: Pharmacovigilance

BRANCH(S): Pharmacy

Time: 3 Hour

Max Marks: 75

Q.Code: M040

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

- Q1 **Part-I** (2 x 10)  
**Answer the following questions :**
- Differentiate ADR and ADE?
  - Mention any two methods in casualty assessment.
  - What is the yellow card in Pharmacovigilance?
  - Mention any two significance of ICD 10.
  - What is MedDRA?
  - Differentiate NDA and ANDA.
  - What is meant by drug safety crisis management?
  - Mention any two data assessment methods used in Drug safety monitoring.
  - What is meant by double blind randomized study in clinical trial?
  - Mention any two objective of ICH guidelines in Pharmacovigilance.
- Q2 **Part-II** (5 x 7)  
**Focused-Short Answer Type Questions- (Answer Any Seven)**
- Briefly discuss the difference between case control study and cohort study.
  - Discuss in details about Periodic safety update report.
  - Briefly explain the drug safety evaluation process in Geriatrics
  - Briefly explain the different phases in clinical trial.
  - Classify and define ADR. Mention the different methods for detection of ADR.
  - Discuss briefly regarding individual case safety report.
  - Discuss in details regarding MedDRA.
  - Mention the different methods of signal detection used in drug safety monitoring.
  - Mention the different condition required for ADE deemed to be serious.

**Part-III**

**Long Answer Type Questions (Answer Any Two)**

- Q3 What is meant by post marketing surveillance? Discuss details about preclinical and clinical phases of safety data generation process. (10)
- Q4 What is meant by Passive surveillance and Active surveillance? Discuss detail methods used for both Passive and Active surveillance. (10)
- Q5 Differentiate PSUR and DSUR. Explain in details regarding Pharmacovigilance planning process. (10)
- Q6 Discuss significance of ICH guidelines in Pharmacovigilance. Explain in details regarding Good clinical Practice in Pharmacovigilance studies. (10)

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