

Course: B. Pharm.

Semester: VIII

Subject: Biostatistics & Research Methodology

Subject Code: BP801T

Maximum Marks: 75

Duration: 3hrs

Date: 10.02.2023

Time: 2.00 PM to 05.00PM

Instructions: i) All questions are compulsory
 ii) Figures to the right indicate full marks
 iii) Draw the diagrams or flow charts wherever necessary.

Q. 1. Objective Type Questions (Answer all the questions)**(10 x 2) = 20**

- i) Differentiate between Null and alternative hypothesis.
- ii) Enumerate Statistical Software's.
- iii) Enlist Advantages and disadvantages Pie charts.
- iv) Classify observational studies.
- v) Give two methods of sample size calculation in research study.

Q. 2. Long Answers (Answer 2 out of 3)**(2 x 10) = 20**

- vi) Write Applications of SAS or MINITAB.
- vii) Enlist non-parametric tests.
- viii) Define research and enlist its types.
- ix) Write significance of sampling in research.
- x) Define bias in clinical study.

Q. 3. Short Answers (Answer 7 out of 9)**(7 x 5) = 35**

- i) What is hypothesis? What are different types of hypothesis? Explain how you will formulate a hypothesis with a suitable example.
- ii) Explain with suitable examples regression analysis and standard error of regression.
- iii) What are measures of dispersion? Explain their significance with suitable examples.
- iv) What do you mean by factorial design? Write some advantages of factorial design.
- v) Discuss null hypothesis, type I and type II errors.
- vi) Explain ANOVA and its applications.
- vii) Discuss the applications of EXCEL and SPSS programmes in statistical analysis.
- viii) Describe the various graphical methods of representing quantitative data.
- ix) What are non-parametric tests? Explain chi square test-Goodness of fit test.

-----END OF THE PAPER-----

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**End Semester Examination - Summer 2023**

Date: 10/06/2023

Course: B. Pharmacy
Subject Name: Social and Preventive Pharmacy
Max Marks: 75

Semester:
Subject Code:
Duration:

VIII
BP802T
3 Hrs

Instructions:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q. 1. Objective Type Questions (Answer all the questions)**(10 x 2) = 20**

- i) Enlist the names of disease that can be protected using Ervebo vaccine, Dengvaxia Vaccine, ShanChol vaccine and PCV13 vaccine
- ii) Differentiate between community medicine and preventive medicine
- iii) Define malnutrition and write about types
- iv) Enlist different dimensions of health
- v) State the objectives of nutrition
- vi) Define prevention and control
- vii) State different functions of Sodium and Fluoride as a minerals
- viii) Enlist various factors influencing health and wellbeing
- ix) Mark the indicators of following vaccine

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- x) Write a note on food hygiene

Q. 2. Long Answers (Answer 2 out of 3)**(2 x 10) = 20**

- i) State and explain different levels of prevention and control
- ii) State the objective of National Malaria Prevention Programme
Explain different Malaria control strategies
- iii) Explain different vitamin deficiency disorders and their prevention

Q. 3. Short Answers (Answer 7 out of 9)**(7 x 5) = 35**

- i) What is personal hygiene? How to maintain personal hygiene?
- ii) What is SARS write its symptoms, prevention and control
- iii) Explain different functions of PHC in health care system
- iv) Write about National Leprosy Control Programme
- v) Discuss health promotion and education in school
- vi) Explain the objectives of National Tobacco Control Programme
- vii) Elaborate the role of WHO in Indian national health program
- viii) Explain levels of prevention
- ix) Highlight the effect of urbanization on Health

-----END OF THE PAPER-----

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**End Semester Examination – Summer 2023****Date:13/06/2023**

Course :	B. Pharmacy	Sem:	VIII
Subject Name :	Pharma Marketing Management	Subject Code :	BP803ET
Max Marks :	75	Duration :	3 Hr.

Instructions:

- All questions are compulsory
- Draw diagrams / figures wherever necessary
- Figures to right indicate full marks

Q. 1.	Objective Type Questions (Answer all the questions)	(10 x 2) = 20
i)	Define needs and demands.	
ii)	Write the significance of product modification.	
iii)	Write the importance of medical exhibition.	
iv)	State the objectives of promotion.	
v)	Differentiate between marketing and selling.	
vi)	List out functions of C and F agents.	
vii)	What do you mean by vertical and horizontal marketing?	
viii)	Define Branding and Channel Conflict.	
ix)	Write differences between the Consumer Buying and Industrial Buying.	
x)	What is the role of NPPA?	
Q. 2.	Long Answers (Answer 2 out of 3)	(2 x 10) = 20
i)	Define marketing. Explain its nature and scope of pharmaceutical marketing.	
ii)	What is market segmentation? Explain the different ways of segmenting the pharmaceutical market with examples.	
iii)	Enumerate the various channels of distribution in pharmaceutical marketing. How will you select the most appropriate channel for distribution of drugs?	
Q. 3.	Short Answers (Answer 7 out of 9)	(7 x 5) = 35
i)	Describe the different strategies of pricing.	
ii)	Explain importance of communication in detailing.	
iii)	Suggest some online promotion techniques for OTP products.	
iv)	Write short notes on i) Rural marketing ii) Global marketing	
v)	Write an overview on DPCO.	
vi)	Explain product branding.	

vii)	Explain the factors that are considered in selection of PSR.
viii)	Discuss in detail role of retailers in distribution of pharmaceutical products.
ix)	Justify the role of professional sales representative. Highlight the process of selection and training of the sales representatives in pharma organization.

—END OF THE PAPER—

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Summer 2023

Course : B. Pharmacy
Subject Name : Pharmaceutical Regulatory Science
Max Marks : 75

Date:
Sem: VIII
Subject Code :BP804ET
Duration : 3 Hrs

Instructions:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q. 1. Objective Type Questions (Answer all the questions)	(10 x 2) = 20
<ul style="list-style-type: none">i) Differentiate innovative drug and generic drug.ii) Name the regulatory authorities of India, US, EU and Australia.iii) Write down the objectives of CDSCO.iv) Enlist modules of CTD.v) Give Constitution of IRB.vi) Give examples for brand and the respective generic products.vii) Write role of regulatory affairs in pharmaceutical industry.viii) Enlist the benefits of eCTD.ix) Draw ACTD triangle.x) Difference between NDA and ANDA.	
Q. 2. Long Answers (Answer 2 out of 3)	(2 x 10) = 20
<ul style="list-style-type: none">i) Describe in detail the stages of drug discovery process.ii) Explain the organization and functions of CDSCO.iii) Write in detail about clinical trial protocol and explain how Pharmacovigilance as safety monitoring in clinical trials?	
Q. 3. Short Answers (Answer 7 out of 9)	(7 x 5) = 35
<ul style="list-style-type: none">i) What is DMF? Explain the contents of DMF.ii) Write the importance of 21 CFR.iii) What are the salient features of purple book?iv) Define clinical trial and explain role of Investigator.v) What is ethics behind informed consent process?vi) Explain orange book.vii) Write different modules of ACTD.viii) Explain regulatory approval process of IND.ix) Describe stages in development of generic formulations.	

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