

Total No. of Questions: 6

Total No. of Printed Pages:2

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Enrollment No.....



Faculty of Pharmacy

End Sem (Even) Examination May-2022

PY6RD01 Research Methodology

Programme: Ph.D. Branch/Specialisation: Pharmacy
(Course Work).

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

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|-----|-------|--|---|
| Q.1 | i. | Define hypothesis. | 1 |
| | ii. | Enumerate the types of research. | 1 |
| | iii. | Define coefficient of variation. | 1 |
| | iv. | What are the three majors of central tendency? | 1 |
| | v. | Enumerate the types of sampling. | 1 |
| | vi. | Define types of errors in hypothesis testing. | 1 |
| | vii. | Define correlation. | 1 |
| | viii. | Define regression. | 1 |
| | ix. | What are the different steps in writing a report? | 1 |
| | x. | Define interpretation. | 1 |
| Q.2 | i. | What is the objective of research? | 2 |
| | ii. | What are the different types of research? | 3 |
| | iii. | What are the different steps involved in research process? | 5 |
| OR | iv. | What are the different ways to collect the data? | 5 |
| Q.3 | i. | How the data is collected for research. | 2 |
| | ii. | Define the role of statistics in research. Explain the measure of central tendency and dispersion. | 8 |
| OR | iii. | Define probability and probability distribution related to normal distribution. | 8 |

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|-----|------|--|---|
| Q.4 | i. | Define sampling and sampling plan. | 3 |
| | ii. | What is the concept of hypothesis testing and write down the procedure for hypothesis testing? | 7 |
| OR | iii. | What are the different errors and parametric tests used in hypothesis testing? | 7 |
| Q.5 | i. | What is the processing and analysis of data? | 4 |
| | ii. | Define correlation and processing operations in analysis of data. | 6 |
| OR | iii. | Write a note on Pearson's correlation coefficient and simple regression analysis. | 6 |
| Q.6 | | Attempt any two: | |
| | i. | What are the different steps in writing s report with one example of Bibliography? | 5 |
| | ii. | Write a comprehensive note on layout of research report. | 5 |
| | iii. | What are the different types of reports with a special emphasis on technical report? | 5 |

P.T.O.

Scheme of Marking



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Note: The Paper Setter should provide the answer wise splitting of the marks in the scheme below.

Q.1	i)	Definition	1
	ii)	Any four types of research	1
	iii)	Definition	1
	iv)	Three Types of major central tendency <i>Mean, Mode, Median</i>	1
	v)	Any four types of sampling <i>Random</i>	1
	vi)	Any two types of errors <i>α, β</i>	1
	vii)	Definition	1
	viii)	Definition	1
	ix)	List out names only	1
	x)	Definition	1
Q.2	i.	Four objectives of research	2
	ii.	Five types of research	3
	iii.	11 steps involved in research	5
OR	iv.	5 ways of collecting the data	5
Q.3	i.	Procedure for data collection	2
	ii.	Role of statistics	2
		Measure of central tendency and dispersion	6
OR	iii.	Probability	3
		Probability Distribution	5
Q.4	i.	Definition of Sampling	1.5
		Definition of Sampling Plan	1.5
	ii.	Concept of Hypothesis testing	3

		Procedure for hypothesis testing <i>Null, alternate</i>	4
OR	iii.	Errors in hypothesis testing	3
		Parametric test in hypothesis testing <i>→ chi square & t test</i>	4
Q.5	i.	Processing of data <i>Correlation Regression</i>	2
		Analysis of data <i>→ Pearson's distribution</i>	2
	ii.	Definition of correlation	2
		Processing operations in analysis of data	4
OR	iii.	Pearson's Correlation coefficient	3
		Simple regression analysis	3
Q.6			
	i.	5 steps with one example ✓	5
	ii.	Layout ✓	5
	iii.	Technical Report	3
		Types of reports ✓	2
