P P SAVANI UNIVERSITY

Seventh Semester of B.P.T. Examination

February 2022

SPPT 4040 RESEARCH METHODOLOGY & BIOSTATISTICS

	02.02.20	022, Wednesday Time: 09:30 a.m. To 12:30 p.m. Ma	aximum Mari	ks: 70
	 Sectio Make 	ons: question paper comprises of two sections. on I and II must be attempted in separate answer sheets. suitable assumptions and draw neat figures wherever required. f scientific calculator is allowed.		
		CECTION		
	Q-1	Essay Question(Any One)		
	(i)	Discuss the steps involved in the research process in detail.		[10]
	(ii)	Define research problem. Describe the components of a Research Problem.	1	
	Q-2(a)	Short Note(Any Two)		
	(i)	Methods of data collection.		[10]
	(ii)	Different types of sampling design.		
	(iii)	Clinical Study Designs.		
	Q-3	Very Short Notes(Any Five)		[15]
	(i)	Randomization.		[15]
	(ii)	Errors in measurement.		
	(iii)	Difference between questionnaires & schedules.		
	(iv)	Sampling distributions.		
*	(v)	Survey research.		
	(vi)	Components of a research article.		
	(vii)	Research methods Vs Methodology.		
	Q-1	SECTION - II		
	(i)	Essay Question(Any One)		[10]
	(1)	What is the need for measures of central Tendency? Define and calculate the n	nean, meadian	
	(ii)	and mode for a grouped data.		
	(11)	Methods of presentation of data.		
	Q-2(a)	Short Note(Any Two)		[40]
	(i)	Types of Correlation with examples		[10]
	(ii)	Descriptive and inferential statistics in research		
	(iii)	Steps in Hypotheses testing		
	Q-3	Very Short Notes(Any Five)		
	(i)	Parameters and Estimates.		[15]
	(ii)	Type I & II errors.		
	(iii)	Skewness &Kurtosis.		
	(iv)	Normal distribution.		
	(v)	Linear regression.		
	(vi)	Statistical software in research.		
	(vii)	Measurement scales.		