Question Paper Version: D

Sixth Semester B.E./B.Tech. Degree Examination, June/July 2025 pisciplinary Research in Aeronautical Engineering

Time: 1 hr.]

[Max. Marks: 50

	INSTRUCTIONS TO THE CANDIDATES				
1.	Answer all the fifty questions, each question carries one mark.				
2.	Use only Black ball point pen for writing / darkening the circles.				
3.	For each question, after selecting your	For each question, after selecting your answer, darken the appropriate circle			
	corresponding to the same question number on the OMR sheet.				
4.	Darkening two circles for the same question	ion makes the answer invalid.			
5.	Damaging/overwriting, using whitened	ers on the OMR sheets are strict	ly		
	prohibited.				
1.	The key areas in research documentation is a) Research design b) Data collection	c) Variables d) All of these			
2.		area is discussed in b) Research proposal d) All of these			
3.	Who should write literature review? a) Scholar b) Teacher	c) Supervisor d) Consultant			
4.	All Research processes start with a) Observation b) Hypothesis	c) Experiments d) Logical			
5.	, , , ,	basis of b) Objective d) None of these			

A research normally ends with same 6.

a) Recommendations b) Conclusion

c) Summary

d) Both (a) & (b)

Smoking and lung cancer is an example of 7.

a) Descriptive research

b) Exploratory research

c) Explanatory research

d) Co relational research

The following type of research is used to recommend a final course of an action. 8.

a) Action research b) Basic

c) Quantitative

d) Both (b) & (c)

9.	Strength of association is studied in which sa) Analytical b) Observational		Both (a) & (c)
10.	Which one is not part of Research Methodo a) Collecting information c) Drawing conclusions	logy? b) Writing LR d) Follow up	
11.	Which of the following technique is commrepresentative sample? a) Convenience sampling c) Purposive sampling	only used in quantitative b) Snowball sampling d) Random sampling	research to ensure a
12.	Which of the following is not a type of Intera) Semi - structured b) Specific) Unstructured
13.	includes data concerning the family back a) Case study c) Genetic approach	background and education b) General behavior d) Adequacy	al development.
14.	Which of the following is a primary objectiona) To obtain general knowledgeb) To test hypothesisc) To conduct literature reviewd) To provide recommendations for future		search?
15.	A survey is an example of which data collect a) Questionnaire b) Experiment		l) Observation
16.	In Data collection, what is meant by Data V a) Checking the accuracy and reliability of b) Analyzing the data to draw conclusions c) Organizing the data into meaningful patt d) Storing the data for future reference	collected data	
17.	A researcher wants to study the behavior collection method is suitable? a) Observation b) Survey		sroom. Which data 1) Experiment
18.	Which data collection method allows for pria) Self administered questionnaire c) Group discussion	ivacy of respondents? b) Face – to – Face interest d) Phone interview	rview
19.	Which data collection method involves ga questions asked to individuals or a group? a) Questionnaire b) Interview		a predefined list of Experiment
20.	What is the purpose of data cleaning in the a) To ensure data accuracy c) To select an appropriate sample size	b) To analyze and interp	

21.	 Which of following statement is correct? a) Reliability ensures validity b) Validity ensures reliability c) Reliability and validity are independent d) Reliability does not depend on objectivity 	
22.	The first step of research is a) Selecting a problem c) Finding a problem	b) Searching a problemd) Identifying a problem
23.	Research can be classified as a) Basic, applied and action c) Quantitative and qualitative	b) Historical and survey d) All of these
24.	Bibliography given in a research report a) Shows vast knowledge of researcher b) Helps those interested in further researc c) Has no relevance to research d) All of these	h
25.	The study in which investigators attempt to a) Survey research c) Historical research	trace an effect is known as b) Summative research d) Ex-post facto research
26.	The main characteristic of scientific researce a) Empirical b) Theoretical	
27.	Authenticity of research finding is a) originality b) validity	c) objectivity d) all of these
28.	Research problem is selected from a) Researcher's interest c) Social relevance	b) Financial supportd) Relevant literature
29.	The research is always a) Verifying old knowledge c) Filling the gap between knowledge	b) Exploring new knowledged) All of these
30.	Research is a) Searching again and again c) Working in scientific research to search d) None of these	b) Finding solution to any problem for truth of a problem
31.	The type of research involves the study are the present and future potential outcomes is a) Historical research c) Survey research	b) Action research d) Experimental research

32.	observing and reflecting.	through cyclic process of planning, acting,
	a) Historical researchc) Survey research	b) Action researchd) Experimental research
33.	The type of research aims to assess the cur collecting data through interviews.	rent status or characteristics of population by
	a) Historical researchc) Survey research	b) Action researchd) Experimental research
34.	Research is conducted in controlled one or more variables to determine their effects. Historical research c) Survey research	settings to test hypotheses by manipulating ect on other variables. b) Action research d) Experimental research
35.	The main purpose of research in education is a) Increase social status b) Increase job prospectus c) Increase personal growth d) Increase candidate become eminent education	
36.	The primary benefit of multidisciplinary res a) It allows researchers to focus on a single b) If fosters collaboration and knowledge c) It simplifies research process d) It eliminates need for data analysis	
37.	What is the purpose of multidisciplinary tea a) To share research findings with wider au b) To address complex research problems c) To limit the scope of research project d) To make the research process streamline	dience
38.	The type of research aims to explore and detail Quantitative method c) Mixed method	b) Qualitative method d) Scientific research
39.	The type of qualitative research describes exa) Ethnography b) Historical	c) Phenomenology d) Case study
40.	The purpose of research presents a pictirelationship.	ure of specific details of social setting or
	a) Exploratory b) Explanatory	c) Descriptive d) Quantitative
41.	Action research is a) Applied research c) Longitudinal research	b) Research to solve immediate problemsd) all of these
42.	The process not needed in experimental resea a) Observation c) Replication Ver – I	earch is b) Manipulation d) Reference collection 0 – 4 of 5

43.	Field work based resea) Empirical	earch is b) Historical	c) Experimental	d) Biographical
44.	Which one is called in a) Cluster sampling c) Systematic sampli	non – probability samp	ling? b) Quota sampling d) Random sampling	
45.	The research that app a) Applied research c) Experimental rese		b) Action research d) None of these	
46.	Which of the following a) Correlational c) Case study	ng is not a common typ	be of quantitative resear b) Experimental d) Quasi – Experimer	
47.	What is the most com a) Interviews		ollection in quantitative c) Observation	
48.	Which of the following a) Objective	ng is not a key charact b) Systematic	eristics of quantitative r c) Subjective	
49.	a) To test the feasibitb) To provide overvitc) To collect prelimit	of pilot study in quanti- lity of research design ew of study population nary data for use in fin treatment of participar	ı al analysis	
50.	Which of the following a) Age	ng is an example of no b) Weight	minal level of measurer c) Gender	nent? d) Income

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