21PHY3S3LP

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Sl. No.

M.Sc. III Semester Degree Examination, April/May - 2024 Skill Enhancement Courses (SEC)

PHYSICS

Research Methodology

(NEP)									
Time	e: 1 Hour	Maximum Marks : 30							
1.	Research can be classified as: (A) Basic, Applied and Action Research (B) Quantitative and Qualitative Research (C) Philosophical, Historical, Survey and Experimental Research (D) All of the above	ch							
2.	The structured approach to inquiry is usually classified as: (A) Quantitative research (C) Both (A) and (B) (D) None of the above								
3.	Experimental research is aimed to: (A) Establish an association between variables (B) Describe variables (C) Study the application of theory (D) Study trend analysis								
4.	Which of the following periodical is specifically meant for pub- work? (A) Magazine (B) Monographs (C) Journals (D)	lishing research Books							
5.	Sci-Hub, the world's largest piracy website was providing access (A) Only journals (B) Only books (C) Both (A) and (B) (D) None of the above	to:							
6.	First page of the research report is: (A) Appendix (B) Bibliography (C) Index (D)	Title page							
7.	What does DOI stand for ? (A) Digital object identifier (B) Digital object indexing (C) Design object indexing (D) Design object identifier								

8.	The (A) (C)	impact factor depends on : Number of citations Number of downloads	(B) (D)	Number of publications Both (A) and (B)
9.	(A)	process that is not required in Manipulation Content analysis	n exp (B) (D)	erimental research is : Controlling Observation
10.	i10-i (A) (B) (C) (D)	index is: Number of publications with a Number of publications with a Both (A) and (B) None of the above		
11.	The (A) (B) (C) (D)	collection of research data inv Observation Interview schedules and que Scientific equipment, observa All of the above	stion	naires
12.		ypothesis that states zero di amed value is : Simple hypothesis Non-directional hypothesis	iffere (B) (D)	nce between the parameters and their Directional hypothesis Null hypothesis
13.	Que (A) (C)	stionnaires are filled by the : Respondents Enumerator	(B) (D)	Everybody None of the above
14.	Labo (A) (B) (C) (D)	Pratory practice is: Anything you write while wor Primary record of any researc Paper that you write your res None of the above	ch or	_
15.	A se (A) (C)	et of predicted questions is : Structured interview Both (A) and (B)	(B) (D)	Unstructured interview None of the above
16.	A co (A) (C)	omprehensive full report of the Summary Report Abstract	rese: (B) (D)	arch process is called : Thesis Article



17.	ANC	ANOVA is						
	(A)	A) The name of a statistical software package						
	(B) A one-way analysis of variance							
	(C) A two-way analysis of variance							
	(D)	Both (B) and (C)						
18.	Research design is:							
	(A)							
	(B)	The choice between using qualitative and quantitative method						
	(C) The style in which you present your research finding							
	(D)	s of dat	ta					
19.	Research data collection happens through:							
	(A)	Observation (B) Schedule	:S	(C)	Interview	(D)	All the above	
20.	The	research papers are written in order to :						
	(A)	Gain name and fame	(B)		nmunicate the		rch	
	(C)	Get promotions	(D)	Non	e of the above	9		
21.	Mea	ean, Median and Mode are :						
	(A)	Measurements of the deviation	on					
	, ,	Ways of sampling						
	(C) Measures of control tendency							
	(D)	None of the above						
22.		ch of the following cannot be co			-	echnical	report writing?	
	(A)	Methodology	(B)	•	ectives			
	(C)	Conclusions	(D)	Ora	l presentatior	1		
23.		researcher has to test a hyp				differen	ce between the	
		ns of two groups is significant,				ioiont		
	(A) (C)	Chi-square test Sign-test	(D)		dent's t-test	icient		
	(0)	oigh test	(D)	Sta	delit's t test			
24.		degree to which two or more				called:		
	(A)	Correlation	(B)		n deviation			
	(C)	Regression	(D)	NOII	e of the above	2		
25.		What is the meaning of the testing of the hypothesis?						
	(A)	It is a significant estimation of		-		41	C 41	
	(B) It is a rule for acceptance or rejection of the hypothesis of the research problem							
	(C)	-						
	(D)	,						

- **26.** The coefficient of skewness of normal distribution is :
 - (A) Positive
- (B) Negative
- (C) Zero
- (D) None
- 27. If the frequency curve has a longer tail to the left the distribution is said to be :
 - (A) Negative skewed
- (B) Positive skewed

(C) Symmetrical

- (D) None of the above
- 28. In a pie chart, the angle of each sector is calculated by using the formula :
 - (A) $\frac{\text{component part}}{\text{total}} \times 100$
- (B) $\frac{\text{component part}}{\text{total}} \times \pi$
- (C) $\frac{\text{total}}{\text{component part}} \times 360^{\circ}$
- (D) $\frac{\text{component part}}{\text{total}} \times 360^{\circ}$
- 29. A circle in which sectors represent various quantities is called :
 - (A) Frequency Polygon
- (B) Histogram

(C) Pie chart

- (D) Bar chart
- **30.** The range of normal distribution is:
 - (A) 0 to n
- (B) -1 to +1
- (C) 0 to ∞
- (D) $-\infty$ to $+\infty$