Tota	l No.	of Pages	: 12

Seat	
No.	

M.Phil/Ph.D. Entrance Examination, October - 2021 COMPUTER APPLICATION

•				day, 26 - 10 - 2021 12.00 noon		Total Marks: 100	
Insti	Instructions: 1) All questions are compulsory.						
			2)	Each question carri	-		
			3)	Answers should be darkening the appro		the given OMR answer sheet by	
			4)	Use black ball point stray mark on the C		marking the circle. Do not make any Sheet.	
			5)	Follow the instruction	ons given on (OMR Sheet.	
			6)	Rough work shall be done on the sheet provided at the end of question paper.			
			7)	Only non programm	nable calculat	ors are allowed.	
				Section - I (Res	earch Met	hodology)	
1)	Rese	earch	Metł	nodology can reduc	e which of t	the following in VUCA world:	
	(A)	Volat	tility		(B)	Uncertainty	
	(C)	Com	plexi	ity	(D)	Ambiguity	
2)	The	meth	od by	which a sample is	s chosen:		
	(A)	Unit			(B)	Random	
	(C)	Desi	gn		(D)	Census	
3)	Whi	ch of	the fo	ollowing Research	Method is u	sed for formation of hypothesis?	
	(A)	Expl	orato	ory Research	(B)	Descriptive Research	
	(C)	Caus	sal R	esearch	(D)	Experiments	

4)	(or samples) of population element is measured repeatedly on the same variables (sample or samples remain the same over time)				
	(A)	Longitudinal Design			
	(B)	Multiple Cross Sectional Design			
	(C)	Single Cross Sectional Design			
	(D)	Experimental Research			
5)		en little is known about problem si ch of the following method.	tuatio	on, it is desirable to begin with	
	(A)	Exploratory Research	(B)	Causal Research	
	(C)	Descriptive Research	(D)	Experiments	
6)		property by which consistent resultsurement is called	lts ar	e achieved when we repeat the	
	(A)	Validity	(B)	Reliability	
	(C)	Standard Deviation	(D)	Variance	
7)	The	methodological framework contains	S		
	(A)	All of the key concepts in the resear	arch p	project.	
	(B)	All of the detail on how the research	ch wa	as conducted.	
	(C)	The literature review.			
	(D)	Detail on the background to the res	searcl	h.	
8)	Refe	erencing is:			
	(A)	Quite important	(B)	Somewhat important	
	(C)	Not important	(D)	Critically important	

- 9) What does the term 'longitudinal design' mean?
 - (A) A study completed far away from where the researcher lives.
 - (B) A study which is very long to read.
 - (C) A study completed over a distinct period of time to map changes in social phenomena.
 - (D) A study with two contrasting cases.
- **10**) The term 'external validity' is concerned with:
 - (A) the question of whether the results of a study can be generalized beyond the specific research context.
 - (B) whether the research question is judged to be a good research question by those outside the study.
 - (C) the question of whether or not social scientific findings are applicable to people's every day, natural social settings.
 - (D) an ambiguous concept whose meaning depends on how it is defined.
- 11) A research study was carried out to see whether people notice web addresses on television advertisements. This is an example of:
 - (A) Employee Research

(B) Pure Research

(C) Applied Research

(D) Management Consultancy

12) Which research strategy is described here?

The introduction of planned change on one or more of the variables; measurement on a small number of variables and control of other variables.

(A) Survey

(B) Case Study

(C) Experiment

(D) Ethnography

- **13**) Which ONE of these is an example of processed data?
 - (A) CCTV recordings of shopper visits
 - (B) Number of visitors to a store
 - (C) Customer comments
 - (D) Tables from surveys.

14)		you think asbestos should be bar ses cancer as demonstrated by the m		-
	(A)	vague wording	(B)	a leading question
	(C)	position bias	(D)	a generalisation
15)		pose that a population with $N=200$ pling distribution of the mean for sa		•
	(A)	Not possible to determine as this ir	form	nation is inadequate
	(B)	40		
	(C)	25		
	(D)	30		
16)		ich of the following is not a way litative research?	of as	sessing the trust worthiness of
	(A)	Dependability	(B)	Accessibility
	(C)	Transferability	(D)	Credibility
17)	Whi	ich Statistical tool comes under Biva	riate	Analysis?
	(A)	Linear Regression Analysis	(B)	Association of Attributes
	(C)	Two-way ANOVA	(D)	All of these
18)	Whi	ich analysis is related with descriptiv	e ana	ılysis?
	(A)	Univariate Analysis	(B)	Bivariate Analysis
	(C)	Multivariate Analysis	(D)	All of the above
19)	A sy	stematic literature review is:		
ŕ	(A)	One which starts in your own librar finally, to the internet	ry, the	en goes to on-line databases and,
	(B)	A replicable, scientific and transpa	rent j	process
	(C)	One which gives equal attention to	the p	principal contributors to the area
	(D)	A responsible professional proces	s of t	ime-management for research

20)) In order to pursue the research, which of the following is priorly required				
	(A)	Developing a research design			
	(B)	Formulating a research question			
	(C)	Deciding about the data analysis pr	roced	lure	
	(D)	Formulating a research hypothesis			
21)	Whi	earch and Development become the ch of the following reasons are true	with	-	
		R & D targets human development			
		R & D can enhance people's stand			
	(C)	R & D reflects the actual economic	and s	ocial conditions being prevailed	
	(D)	in the country All the above			
22)	Why	y is data analysis concerned with da	ta red	luction?	
	•	Because far too much data is collected			
		Because we need to make sense of		-	
	, ,	Because of the repetitions in answer			
		Because the sample size has been of		-	
23)		ich one among the following fal elopment?	ls ur	nder the category of research	
	(A)	Descriptive Research	(B)	Philosophical Research	
	(C)	Action Research	(D)	All of the above	
24)		is used to test for differences	amo	ong the means of the population	
	by e	xamining the amount of variation wi	thin e	each of these samples, relative to	
	the a	amount of variation between the sam	iples.		
	(A)	SD	(B)	ANOVA	
	(C)	Chi-Square	(D)	Z test	
25)	of et	search intends to explore the result of fective mid-day meal interventions. copriate for this study?	_	_	
	(A)	Descriptive survey method	(B)	Historical method	
	(C)	Ex-post facto method	(D)	Experimental method	

Section - II (Computer Application)

26)	Cod	e optimization is responsibility of:		
	(A)	Application programmer	(B)	System programmer
	(C)	Operating system	(D)	All of the above
27)	Whi	ch of the statements related to Com	pilers	s is wrong?
	(A)	Lexical analysis is breaking the inp	ut int	o tokens
	(B)	Syntax analysis is for parsing the p	hrase	
	(C)	Syntax analysis is for analyzing the	sema	antic
	(D)	None of these		
28)		ch of the following derivations does nput string? The input is assumed to	-	1 2
	(A)	Leftmost derivation		
	(B)	Leftmost derivation traced out in re	evers	e
	(C)	Rightmost derivation		
	(D)	Rightmost derivation traced out in	rever	rse
29)		sider the schema $R(S, T, U, V)$ and t S. Let $R = \{R1, R2\}$ such that $R1 \cap$		
	(A)	not in 2NF	(B)	in 2NF but not in 3NF
	(C)	in 3NF but not in 2NF	(D)	in both 2NF and 3NF
30)		ch data management language compema components?	onen	nt enabled the DBA to define the
	(A)	DML	(B)	Subschema DLL
	(C)	Schema DLL	(D)	All of these

31)	The	subnet mask 255.255.255.192	•	
	(A)	Extends the network portion to 16	bits	
	(B)	Extends the network portion to 26	bits	
	(C)	Extends the network portion to 36	bits	
	(D)	Has no effect on the network porti	on of	f an IP address
32)	Wha	at is the function of a translating brid	lge?	
	(A)	Connect similar remote LANs		
	(B)	Connect similar local LANs		
	(C)	Connect different types of LANs		
	(D)	Translate the network addresses in	to a l	ayer 2 address
33)	A 10	BASE-2 network is limited to:		
	(A)	20 bytes per data field		
	(B)	30 stations per segment		
	(C)	40 segments		
	(D)	50 feet of cable		
34)		ompiler for a high level language that e for a different machine is called:	at run	as on one machine and produces
	(A)	Optimizing	(B)	One pass compiler
	(C)	Cross compiler	(D)	Multipass compiler
35)	A pe	ermanent database of a general mod	el of	compiler is
	(A)	Identifier table	(B)	Page map table
	(C)	Literal table	(D)	Terminal table

36)	Task	ks done in parsing are:		
	(A)	Check the validity of a source stri	ng	
	(B)	Determine the syntactic structure	of a so	ource string
	(C)	Both (A) and (B)		
	(D)	None of these		
37)	Are	we building the right product? This	state	ment refers to
	(A)	Verification	(B)	Validation
	(C)	Testing	(D)	Software quality assurance
38)	The	COCOMO model is used for		
	(A)	software design	(B)	software cost estimation
	(C)	software cost approximation	(D)	software analysis
39)		ch of the following tools is not request em development life cycle?	uired	during system analysis phase of
	(A)	Case tool	(B)	RAD tool
	(C)	Reverse engineering	(D)	None of these
40)	Con	cept description is the basic form	of the	
	(A)	Predictive data mining	(B)	Descriptive data mining
	(C)	Data warehouse	(D)	Relational data base
41)		describes the data containe	ed in t	he data warehouse.
	(A)	Relational data	(B)	Operational data
	(C)	Metadata	(D)	Informational data

42)	Data	a Warehouse provides		
	(A)	Transaction Responsiveness		
	(B)	Storage, Functionality Responsive	ness	to queries
	(C)	Demand and Supply Responsivene	ess	
	(D)	None of the above		
43)	Wha	at is a web browser?		
	(A)	a program that can display a web p	age	
	(B)	a program used to view html docu	ments	S
	(C)	it enables user to access the resour	ces o	of internet
	(D)	all of the mentioned		
44)	Dyn	amic web page		
	(A)	is same every time whenever it disp	olays	
	(B)	generates on demand by a program	n or a	request from browser
	(C)	both (A) and (B)		
	(D)	none of the mentioned		
45)	Whi	ch one of the following is not used	to ge	nerate dynamic web pages?
	(A)	PHP	(B)	ASP.NET
	(C)	JSP	(D)	none of the mentioned
46)		ad computing is a kind of abstract bining physical resources and repress.		
	(A)	Real	(B)	Cloud
	(C)	Virtual	(D)	Replication

47)	Which of the following package stores all the standard Java classes?					
	(A)	lang	(B)	java		
	(C)	util	(D)	java.packages		
48)		ch of the following is correct way of s manager?	imp	lementing an interface salary by		
	(A)	class manager extends salary {}				
	(B)	class manager implements salary {	}			
	(C)	class manager imports salary { }				
	(D)	none of the mentioned				
49)	Whi obje	ch of these method of class String ect?	g is u	used to obtain length of String		
	(A)	get()	(B)	Sizeof()		
	(C)	lengthof()	(D)	length()		
50)		ch one of the following refers to the ronment?	non-i	functional requirements in cloud		
	(A)	Service Development				
	(B)	Quality of service				
	(C)	Plan Development				
	(D)	Technical Service				

Rough Work

Rough Work