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B.Tech DEGREE EXAMINATION, NOVEMBER 2023

Seventh Semester

18CSC461J - USABILITY DESIGN OF SOFTWARE APPLICATIONS

(For the candidates admitted during the academic year 2020 - 2021 & 2021 - 2022)

Note:

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i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.
 ii. Part - B and Part - C should be answered in answer booklet.

Tim	e: 3 Hours		Max. N	Aarks	: 100
	Mark	cs BL	СО		
1.	refers to the relationship world.	between controls and their effects in the	1	l	1
	(A) Visibility (C) Mapping	(B) Affordance(D) Conceptual			
2.	tell the user when he has mad (A) Program crash	e some mistake. (B) System stuck	1	1	1
3.	(C) Error messages minimizes errors.	(D) Metadata	1	1	1
	(A) Affordance (C) Constraints	(B) Visibility (D) Execution			
4.	software?	terface, and procedural representations of the	1 '	1	1
	(A) design model (C) mental image	(B) user's model (D) system image			
5.	Which one of the following tags is used (A) <image/> (C) 	to insert graphics in the webpage (B) <images> (D) <graphics></graphics></images>	1	₀₂₁ 1	2
6.	URI is the acronym for (A) Universal resource identifier (C) Universal reference identifier	(B) Unified resource identifier (D) Unified reference identifier	1	1	2
7.	WWW stands for (A) wide world web (C) world wide web	(B) web world wide (D) world web wide	1	1	2
8.	Which program is used by web clients to (A) Web browser (C) Web server	view the web pages? (B) Protocol (D) Search Engine	1	1	2
9.	Sub-tasks that work to solve the problem (A) Revenue task (C) Essential task	(B) Excise task (D) Necessary task	1	1	3
10.	engineering fields spend 80% of (A) Mature (C) Immature	the time on accidental problems (B) Software (D) Scientific	1	2	3
11.	Excise tasks satisfy the needs of the tools (A) Developer (C) Reviewer		1	1	3

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12.	A good flow chart should be (A) Bi-directional (C) Unidirectional	(B) Multi-directional (D) undirectional	1	1	3
13.	In PC Desktop and laptop keyboard shorter (A) Control Z (C) Control Y	(B) Control X (D) Control w	1	1	4
14.	Forms & Text Input allows visitors of the w (A) To enter & submit information (C) To validate the information	(B) To correct the information (D) To delete the information	1	1	4
15.	is a process or a set of practices to (A) Data security (C) Data validity	that ensure the security. (B) Data integrity (D) Data reinforcement	1	1	4
16.	Physical safety ensures (A) that the devices on which the data is connected to front end.	(B) that the devices on which the data is stored are safe from weather, fire, theft, and similar events.(D) that the devices on which the data is	1 =		4
	(C) that the devices on which the data is stored in cloud	validated through third party			
17.	Which of the following is not a mobile usal (A) Unresponsive gestures (C) Filling data repeatedly	bility issue. (B) Complex on boarding (D) Horizontal compatibility	1	2	5
18.	Analytical thinking is not about (A) Practical foresight (C) Growth mindset	(B) Stagnation(D) Prioritization	1	1 ===	5
19.	is about assigning leads to sale (A) Process pain points (C) Financial pain points	es reps or nurturing lower priority needs. (B) Support pain points (D) Productivity pain points	1	1	5
20.	Which of the following is not a myth of use(A) Usability is the same as user interface design(C) Usability is a necessity, not a luxury	able security? (B) Usability and security conflict with each other (D) The right process will lead to usable security	1	1	5
	PART - B $(5 \times 4 = 2)$ Answer any 5 Qu		Marl	s BL	CO
21.	Identify, why people expect simplicity?		4	2	-1
22.	List the principles of psychopathology.		4	1	1
23.	Write short notes on the confusion of corre	elation with causation.	4	1	- 2
24.	Explain the state of mind on flow in user in	nterfaces.	4	1	3
25.	Discuss the techniques to avoid Excise.		4	2	3
26.	Define data integrity.		4	1	4
27.	Examine, Why critical thinking is important	nt as a designer.	4	2	5
	PART - C ($5 \times 12 =$ Answer all Que		Marl	ks BL	CO

28.	(a) Summarize mental models and different aspects of mental models. (OR)	12	2	1
	(b) Explain the principle of mapping with examples.			
29.	(a) Explain the six ways of Scientific test to Acquire Knowledge. (OR)	12	3	2
	(b) Evaluate the Correlation and Causality			
30.	(a) Discuss on how user interface must help user's navigation and list the benefits of navigation.	12	3	3
	(OR)			
	(b) Describe in detail about Essential and Accidental problems and given an example problem to narrate the Excise Task.			8
31.	(a) Illustrate about navigation tools available in design area. (OR)	12	2	4
	(b) Summarize about undo in GUI.			
32.	(a) Describe usable security. Explain the need of focusing on usable security. (OR)	12	2	5
	(b) Explain the principles that can be taken into consideration to improve mobile usability.			

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