Regula	itions	2022			
			Reg. No.:		
()		(An Autonomo	MMAN INSTITUTE O	a University, Chennal)
Stay	Abest		PEF	RIODICAL TEST I - APRI IV Semester	L 2024
		22CS008	/22IT008/22CT	008/22AI002& UI AND U	X DESIGN
Deg	ree &	Branch: B.E	/B.Tech. & CS	S,IT,CT,AI	
Tim	e:1:30	Hrs.			Maximum: 50 Marks
731		the month life out them Come	selected Minimum material line in	medicans for Mil Morks state. Exchange	American management from \$4 \$400mg
2. 3. Q.No.	Shuciero			restons for 30 Marks each, Section C se subsections in each section. More Questions.	
3.	Shupero and 10 i	s can alternal answ	eong any ties out of the	ne subsections in each section, Maxim	
3. 2.No	Shupero and 10 i	can alternal array n sections C.	g HTML output Enter the d	Questions Questions COURSE OUTCOME 1 etails	num mark is limited to 20 in section A &
3. Q.No	Shupero and 10 i	can alternal array n sections C.	g HTML output Enter the d User Name Password	Questions Questions COURSE OUTCOME 1 etails	num mark is limited to 20 in section A &
3. Q.No	Shupero and 10 i	can alternal array n sections C.	g HTML output Enter the d User Name Password	Questions OURSE OUTCOME 1 etails	num mark is limited to 20 in section A &
3. Q.No	Shupero and 10 i	can alternal array n sections C.	g HTML output Enter the d User Name Password (Gender ()	Questions OURSE OUTCOME 1 etails	num mark is limited to 20 in section A &

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ANSWER

<IDOCTYPE html>

<html>

<body>

<h4> Enter the details </h4>

<label for="uname"> User Name</label>

<input type="text" name="uname" id="uname"/>

<label for="pass"> Password</label>

<input type="password" name="pass" id="pass"/>

<label for="gender"> Gender</label>

<input type="radio" value="male">Male</input>

<input type="radio" value="male">Female</input>

<input type="radio" value="male">Other</input>

</r>

<input type="Submit" value="Submit"></input>

</body>

</html>

From the result obtained in A1(i). Write the code to create a table as shown below (10)

	Semester IV Elective	
Subject Code	Subject Name	Course Type
22CS008	The second secon	ELECTIVE 1
22CS009	The second second	ELECTIVE 1
22CS010	Full Stack Development	

(4 Marks - [U/C,2])

Answer:

<div align="center">Semester IV Elective</div>

Subject Code

Subject Name

Course Type

>

22CS008

UI AND UX DESIGN

ELECTIVE 1

22CS009

WEB Frameworks

ELECTIVE 1

</10>

22CS010

Full Stack Development

ELECTIVE 3

<itr>

A2

Visual design principles are fundamental concepts that guide the arrangement and presentation of visual elements in design. These principles, including scale, visual hierarchy, balance, contrast, and Gestalt principles, collectively influence the overall aesthetics and functionality of a design.

> Visual-design principles inform un how design elements go together to create well-rounded and thoughtful visuals. Graphics that take advantage of the principles of good visual design can drive orgagement and increase usability.

SCALE

The principle of economies to every relative one to signal importance and sets to a compaction.



VISUAL HIERARCHY

The principle of drawal intravelsy refers to governg the eye on the page so that it strends to decigo elements in the sales of their Impurious.



Related mount when there is no enough the Plantal amount of along a good on traffe plantal and magnifest are.



The principle of commerce of on the far jurispection of charles decrease emerge, to pulse to convey the fail that these electors are different.



GESTALT PRINCIPLES

Contact principles capture our lendency to proceive the whole as approad to the todoology stances.







Figure A2.1 Visual design Principles

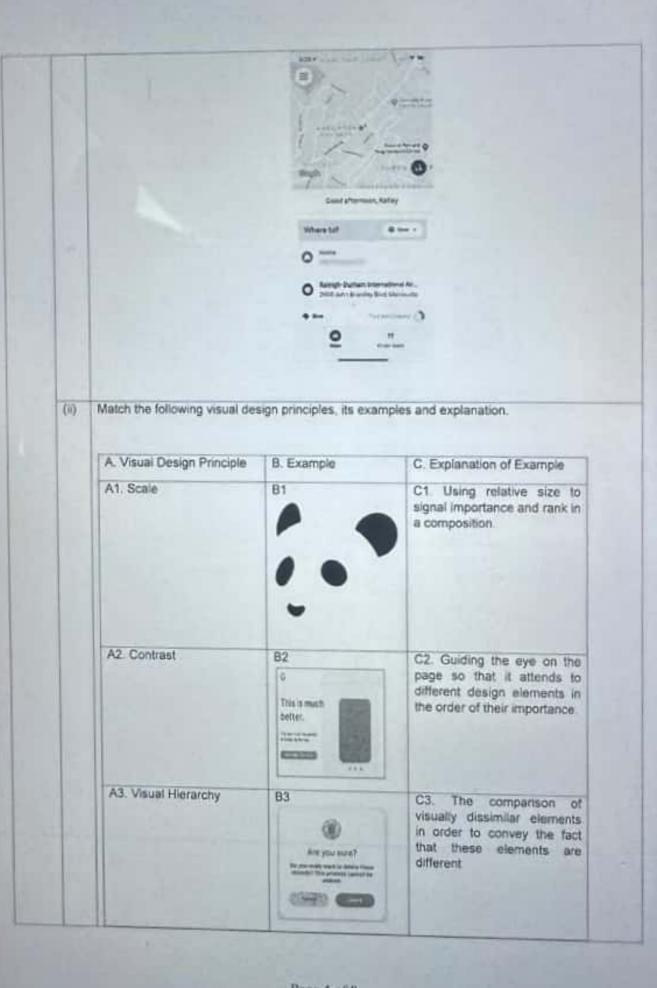
(i) The principle of visual hierarchy refers to guiding the eye on the page so that it attends to different design elements in the order of their importance. Visual hierarchy can be implemented through variations in scale, value, color, spacing, placement, and a variety of other signals.

Design the visual hierarchy for Uber mobile application. How your visual hierarchy improves the overall visual design of the application?

(3 Marks - [Ap/C,2)

ANSWERS

The screen is split in half betweenthe map and input form (bottom half of screen), which enforces the thought that these components are equally important to the user. The eye is immediately drawn to the field because of its gray background, and then to the recent locations below it, which are slightly smaller in font size.



Subconsciously A4 Gestalt Principles arranging the parts into an system that organized creates a whole, rather than interpreting them as a series of disparate elements. (4 Marks - [U/C,2]) ANSWERS A1-B4-C4 A2-B3-C3 A3-B2-C2 A4-B1-C1 The balance design principle makes a satisfying arrangement or proportion of design elements. (88) Balance occurs when there is an equally distributed amount of visual signal on both sides of an imaginary axis going through the middle of the screen. The balance principle is classified into three types, Symmetrical, Asymmetrical and Radial. Identify the balance principle used in the below images Find 4 july (16) (i) (n) (3 Marks - (Ap/C,2) **ANSWERS** Radial Asymmetrical ĸ. Symmetrical III. 'Hero' Task Flows illustrate the motivations and primary steps that a user takes to complete a task or **A3** accomplish a goal that will be helpful to visualize.

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represent different user types, their goals, needs, behaviors, and demographics.

(3 Marks-[An/C,1])

Answer:

True

Justification:

This is a common practice in UX design and product development personas help teams empathize with and design for their target users by understanding their motivations, preferences and pain points. They are based on real data and research to ensure they accurately reflect the characteristics of the target user groups.

SECTION B

COURSE OUTCOME 2

MAXIMUM: 20 MARKS

B1 Consider an application designed with two various design that makes the same performance







Figure B1.1Material design

Figure B1.2 Human Interface design

- (i) The patterns of transition includes shared axis, Container Transform, fade and Fade through. Classify the correct transition that will be applicable for the below statements.
 - When a UI element enters and exits the screen the process of transition is best suited for this situation.
 - If the relationship between objects is insignificant or isn't present, uses the transition with best suited situation
 - 3. Shapes the represent contents in the form of buttons, lists, cards
 - 4. If there is a spatial relationship emphasis such as object in a horizontal or vertical layout

(4 Marks -[An/C,2])

Answer:

- 1. Shared Axis
- 2. Fade
- 3. Fade through
- 4 container
- (ii) Based on the Scenario, identify the patterns of transition for the below performance. "When a card transforms into a detail page, the user's focus will be directed to identify the detail page is an expanded version of the card".

Answer:

Container transfer

(2 Marks-[U/C,2])

(iii) With reference to the figure B1.1 and B1.2, illustrate the different design themes that help los

(4 Marks-(U/C,2))

		Answer:
		o Deference o Clarity o Depth
B2	Intro	ducing Mark, a busy professional who relies on messaging apps to communicate with colleagues clients. Here's how he interacts with a messaging platform:
		 Mark opens the messaging app on his Smartphone and is greeted with a list of recent conversations and contacts.
		 He selects a conversation with his project team to discuss upcoming deadlines and project updates. The messaging interface is user-friendly, with options for sending text messages, images, and files.
		 During the conversation, Mark receives a notification about a new message from a client. He switches to the client chat seamlessly, maintaining multiple conversations without any hassle. Mark utilizes the platform's group chat feature to create a dedicated chat group for his project team, facilitating efficient communication and collaboration.
		 At the end of the day, Mark archives completed conversations and sets notifications for important chats to ensure he stays organized and responsive.
	(0)	Consider if Mark wants to get into group communication. Below are some incomplete initial steps to initiate the group chat. Complete the below steps for Mark to get into group communication. Step1: Open Message App
		Step2: Navigate to Group chat option
		Step3:
		Step4:
	H	Step5:
		Step6:
		Step7: Group chat for Project team created successfully.
		(4 Marks-[Ap/P,2])
		Answer: Step3: Select "Create New Group" Step4: Add project team members Step5: Name the group Step6: Confirm creation of group
	(0)	Sketch the simple representation of user interface of the message application as Mark see it when he opens it on his smartphone (3 Marks- [An/C,2])
		Answer:

_	_	
		Messaging Acp
		[Recent Conversation]
		Project teams
	1 1	Castomer2
	117	
		(Controlts)
		Customer1
		Supplier
		Manager
		[Cojngose] [Search] [Menu] [Sestings]
		this the massing
	(iii)	Identify the sequence of actions that Mark see when sharing an image within the message
		application. (3 Marks-[U/C,2])
		Answer:
		Open message App Select conversation
		3. Tap attach icon
		4 Choose image option
		Select image from gallery
		6. Tap send button
83	invol	sider the development process for a mobile banking application for iOS device. The process sider the development process for a mobile banking application for iOS device. The process satisfies adhering to apple application, and transaction, thorough testing to ensure functionality and ementing secure authentication and transaction, thorough testing to ensure functionality and ementing secure authentication and transaction, thorough testing to ensure functionality and finally deploying the application to the app store for users to download on their iOS in the interview of the int
	devi	
	(0)	iOS is different from Android irrespective or the model pattern. (3 Marks-{An/C,2})
		The state of the s
		Answer: Deference
		Clarity
	(ii)	Depth State whether the given statement is correct or incorrect in terms of Human Interface Design (HID) –iOS and Justify your answer Statement 1: Clarity can be platform-specific and doesn't depends on what the user familiar with Statement 2: Apple promoted gradients and blurred design, while google gives importance to
		drop shadows (4 Marks-[U/C,2])
		Answer: Statement 1: incorrect Justification: Clarity is depends on what the user familiar with. Ex: Android users may not recognize the iOS icon instantly.
		Statement 2: correct Justification: Apple promoted gradients and blurred design for sleek and immersive experience Justification: Apple promoted gradients and blurred design for sleek and immersive experience while google gives importance to drop shadows to create depth and hierarchy within its Material design.
	(iii)	Conclude the below assertion and reasoning Assertion: Material Design priorities user action and interactions through intuitive targets
	1	Assertion: Material Design prioriting con-

Reason: Clear and accessible targets reduce user frustration and improve usability 1. A is true but R is false 2 A is false but R is true 3 Both A and R are false 4. Both A and R are true (3 Marks-[U/C,2]) Answer: Both A and R are true SECTION C COURSE OUTCOME 3 MAXIMUM: 10 MARKS User Interface (UI) and User Experience (UX) design are integral aspects of creating digital products that prioritize user satisfaction. Ut design focuses on the look and feel of a product, including visual elements, interactive components, and overall aesthetics. On the other hand, UX design concentrates. on the overall user experience, ensuring seamless navigation, usability, and user satisfaction throughout the interaction with the product. 02. Research 05. Figure C1.1 Phases of UI/UX Identify the missing phases of UI/UX from the above Figure C1.1 (3 Marks (U/C,2)) Answer 1. Product Definition 3. Analysis 4. Validation Designers consider their options, and then proceed to work out the details, thus making UX design a two-step process. Find which step suits the following statements. In the initial step, multiple ideas are generated, but since they cannot be fully shaped, it is not uncommon for some of elements to be incomplete or missing. Step by step, you settle on a few promising variants and proceed to work out the

a- Idea Generation

Answer

C1

(i)

(8)

b- Adding details and Refinement

specifics, thus rendering some ideas unsuitable

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(2 Marks-[U/C,2]):

UVUX designer is designing a unique Website and also a Mobile App for a Gaming company which incorporate more attractive and user comfort design features. The designer uses Figma software to design the Ut/UX web page. Wireframes and Wire flows are used for more user expenence feature. Wireframes are used for creating the interface and the Wire flows are used to create the interaction link between the webpages or navigation screens.

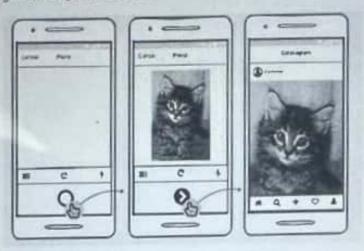


Figure C2.1. Wireframes and Wire flows

(i) Wireframes are broadly classified into three types as Low fidelity, Mid fidelity and High fidelity based on the number of details they contain.

Match the following:

5.No.	Type of Wireframe (A)	Detailing's (B)	Example (c)
1	Low fidelity	pixel-specific layout, actual featured images and relevant written content	
2	Mid fidelity	simplistic images, block shapes, and basic elements	**************************************
3	High fidelity	images or typography, Varying text weights	

(3 Marks-(U/C,2))

Answer: A1 - B2 - C3

Т		A2 - B3 - C1
١		A3 - B1 - C2
T	(ii)	Are there any key differences in UI/UX designing process while developing a Website and a Mobile App? Justify your answer.
H		(2 Marks-[U/C,2])
		Answer. Yes.
		Screen Size and Resolution: Mobile devices typically have smaller screens and lower resolutions compared to desktop monitors. This requires designers to prioritize content and functionality differently to ensure a good user experience on smaller screens.
THE CHARLES	plays custo is for butto	Inline Shopping company wants to develop an E-Commerce Website. In these UIUX designers is a vital role in designing the webpages with more user-friendly options in order to attract more orners to view and search the products. To make this the designer uses Digital Wireframes, which representing static interfaces. Acting as visual roadmaps, wireframes depict the positioning or ins, navigation, and content, aiding in a comprehensive grasp of the designs fundamental ework.
Total Park	plays custo is for butto	omers to view and search the products. To make this the designer uses Digital Wireframes, which
Total Section	plays custo is for butto frame	s a vital role in designing the webpages with more user-mendy options in order to attract more of the products. To make this the designer uses Digital Wireframes, which representing static interfaces. Acting as visual roadmaps, wireframes depict the positioning or ins, navigation, and content, aiding in a comprehensive grasp of the designs fundamental ework. Rearrange the below steps for designing the webpage UI/UX designer needs to know. 1. Refine requirements and Prioritize Features. 2. Map the User Flow.
Total Section	plays custo is for butto frame	mers to view and search the products. To make this the designer uses Digital Wireframes, which representing static interfaces. Acting as visual roadmaps, wireframes depict the positioning or ins, navigation, and content, aiding in a comprehensive grasp of the designs fundamental ework. Rearrange the below steps for designing the webpage UI/UX designer needs to know. 1. Refine requirements and Prioritize Features. 2. Map the User Flow. 3. Do your UX research.
Total Park	plays custo is for butto frame	s a vital role in designing the webpages with more user-mendy oppons in order to attract more omers to view and search the products. To make this the designer uses Digital Wireframes, which representing static interfaces. Acting as visual roadmaps, wireframes depict the positioning or ns, navigation, and content, aiding in a comprehensive grasp of the designs fundamental ework. Rearrange the below steps for designing the webpage UI/UX designer needs to know. Refine requirements and Prioritize Features. Map the User Flow. Do your UX research. Review and Iterate.
Total Park	plays custo is for butto frame	s a vital role in designing the webpages with more user-mendy options in order to attract more of the products. To make this the designer uses Digital Wireframes, which representing static interfaces. Acting as visual roadmaps, wireframes depict the positioning or ins, navigation, and content, aiding in a comprehensive grasp of the designs fundamental ework. Rearrange the below steps for designing the webpage UI/UX designer needs to know. Refine requirements and Prioritize Features. Map the User Flow. Do your UX research. Review and Iterate. Sketch the Layout and Features.
Total Park	plays custo is for butto frame	sa vital role in designing the webpages with more user-friendly options in order to attact more of the products. To make this the designer uses Digital Wireframes, which representing static interfaces. Acting as visual roadmaps, wireframes depict the positioning or ins, navigation, and content, aiding in a comprehensive grasp of the designs fundamental ework. Rearrange the below steps for designing the webpage UI/UX designer needs to know. 1. Refine requirements and Prioritize Features. 2. Map the User Flow. 3. Do your UX research. 4. Review and Iterate. 5. Sketch the Layout and Features. (5 Marks-[An/C,2]) Answer:
1000	plays custo is for butto frame	s a vital role in designing the webpages with more user-mendly options in order to attract more omers to view and search the products. To make this the designer uses Digital Wireframes, which representing static interfaces. Acting as visual roadmaps, wireframes depict the positioning or one, navigation, and content, aiding in a comprehensive grasp of the designs fundamental ework. Rearrange the below steps for designing the webpage UI/UX designer needs to know. Refine requirements and Prioritize Features. Map the User Flow. Do your UX research. Review and Iterate. Sketch the Layout and Features. (5 Marks-[An/C,2]) Answer. Do your UX research.
100	plays custo is for butto frame	sa vital role in designing the webpages with more user-friendly options in order to attact more orders to view and search the products. To make this the designer uses Digital Wireframes, which representing static interfaces. Acting as visual roadmaps, wireframes depict the positioning or ans, navigation, and content, aiding in a comprehensive grasp of the designs fundamental ework. Rearrange the below steps for designing the webpage UI/UX designer needs to know. Refine requirements and Prioritize Features. Map the User Flow. Do your UX research. Review and Iterate. Sketch the Layout and Features. (5 Marks-[An/C,2] Answer: Do your UX research. Refine requirements and Prioritize Features
100	plays custo is for butto frame	s a vital role in designing the webpages with more user-friendly options in order to attract more of the products. To make this the designer uses Digital Wireframes, which representing static interfaces. Acting as visual roadmaps, wireframes depict the positioning or ans, navigation, and content, aiding in a comprehensive grasp of the designs fundamental ework. Rearrange the below steps for designing the webpage UI/UX designer needs to know. Refine requirements and Prioritize Features. Map the User Flow. Do your UX research. Review and Iterate. Sketch the Layout and Features. (5 Marks-[An/C,2] Answer. Do your UX research.