

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



PAST PAPER

Ali is working as a research assistant in a company. A Research officer assign him task to develop interview questions, plan to keep them short, straightforward and avoid asking too many. Write the five guidelines which Ali should follow to accomplish assigned task.

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Suppose you are an HCI specialist, what do you think that evaluation of design or product is beneficial? Justify your point of view in five lines.

Answer:-

HCI specialists test design ideas on real users and use formal evaluation techniques to replace intuition in guiding design. This constant reality check improves the final product.

To most effectively develop programs and products designed to meet customer needs, all operations are strongly science based. For example, our research and development teams emphasize improving rearing methodologies for current and new products, designing consistently significant quality control evaluations, improving natural enemy delivery methodologies and developing technologies for field population monitoring. Our science-based efforts are the best means to achieve and maintain the highest standards of program and product quality.

1. Problems are fixed before the product is shipped, not after.
2. The team can concentrate on real problems, not imaginary ones.
3. Engineers code instead of debating.
4. Time to market is sharply reduced.
5. Finally, upon first release, your sales department has a rock-solid design it can sell without having to pepper their pitches with how it will all actually work in release 1.1 or 2.0.

Suppose you are a practitioner of visual art and visual design. Justify how visual art is different from visual design?

Visual Art	Visual Design
<ul style="list-style-type: none">• Visual art is art such as paintings, photographs, sculptures,• The term visual art separates those kinds of art from music, dance, and drama.• It is two-dimensional. Visual arts are things like paintings, drawings, visual designs, photography, and computer art.• There is no "designing" for a purpose; it's just creating something visually appealing.	<ul style="list-style-type: none">• Visual design• is the way a piece of artwork, a room, yard, video game, photo or other artistic subject is composed and appeals to the human eye• Photoshop designs for each page, page type, module within an app/site/software.• Creates or contributes to style guides detailing how everything looks and how it fits into the larger strategy.

Human Computer Interaction (CS408)

Question: 49 (Marks: 5)

Attempted Questions: 18 Total Questions: 52

Match Column A with column B.

Column A	Column B
I. Storyboarding	1. Devise your own symbols and icons for elements you might want
II. Sketching	2. Series of sketches showing how a user might progress through a task

Answer:



Match Column A with column B.

Column A	Column B
I. Storyboarding	1. Devise your own symbols and icons for elements you might want
II. Sketching	2. Series of sketches showing how a user might progress through a task using the device being developed
III. Prototypes	3. Primary actions and pathways through the interface that the persona takes with the greatest frequency, often on a daily basis.
IV. Key path scenarios	4. Answer questions and support designers in choosing between alternatives
V. Principles and patterns	5. Add a bottom-up approach to balance the Process and can be used to organize elements at all levels of

Imagine you want to find a book with a red cover, or one that discusses HCI artifacts and book has effective navigation approaches. Which retrieval method you will use here to find book in your computer and why ?

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Human Computer Interaction (CS408)

Question: **47** (Marks: 3)

Attempted Questions: **18** Total Questions: **52**

Why Schedule and budget constraints are important in evaluation process? Give at least two reasons.

1. Planning evaluations that can be completed on schedule is also important, particularly in commercial settings.
2. Time and budget constraints are important thoughts to keep in mind. It might seem ideal to have 10-20 users test our interface. But if we need to pay them, then it could get costly

All users do mistakes while doing work on computers. In your point of view which tool allows the user to reverse one or more previous actions if he/she decides to change his/her mind in software user interface?

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Answer:

Human Computer Interaction (CS408)

Question: **45** (Marks: 3)

Attempted Questions: **18** Total Questions: **52**

Fatima is an interface designer and use patterns in order to reduce design time. Which patterns she will applied at conceptual level and to solve information management problems?

Answer: She will applied interaction design pattern, because interaction design pattern represent both the capture and formalization of design knowledge, which can serve a lot of purposes e.g.
Reducing design time and effort on new projects and educating designers new to a project etc.

Human Computer Interaction (CS408)

Question: **44** (Marks: 2)

Attempted Questions: **18** Total Questions: **52**

Point out the problem with excise tasks.

The problem with excise tasks is that the effort we expend in doing them doesn't go directly towards accomplishing our goals. Where we can eliminate the need for excise tasks, we make the user more effective and productive and improve the usability of the software.

Answer:

Give the names of two software tools that can be used for creating prototypes.

If you are to build a prototype in software, then clearly you need a software tool to support this. Common prototyping tools include Macromedia Director, Visual Basic, and Smalltalk. These are also full-fledged development environments, so they are powerful tools, but building prototype

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Human Computer Interaction (CS408)

Question: **42** (Marks: 2)

Attempted Qu

What does PARC stands for?

Palo Alto Research Center

Human Computer Interaction (CS408)

Question: **41** (Marks: 2)

Attempted Questions: **18** Total Questions: **5**

Suppose you are an interface designer, write any two principles that can help you to make your visual interface as easy and pleasurable to use as possible.

Avoid visual noise and clutter

- Use contrast, similarity, and layering to distinguish and organize elements
 - Provide visual structure and flow at each level of organization
 - Use cohesive, consistent, and contextually appropriate imagery
 - Integrate style and function comprehensively and purposefully
-

_____ is the least technical way of collecting data but it can be difficult and tiring to write and observe at the same time.

Choices:

Taking notes



Observation

Video

Audio recording

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Human Computer Interaction (CS408)

Question: **39** (Marks: 1)

Attempted Questions: **18** Total Questions: **52**

Scenario content and context are derived from information gathered during the _____ phase and analyzed during the _____ phase (respectively)

Choices:

Modeling, implementation

Modeling, requirement

Research, implementation

Research, modeling



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Why people are less able to distinguish fine detail in blue?

Choices:

Blue does not contrast well with other colours

There are fewer cones in the centre of the retina that are sensitive to blue light

The rods in the periphery of the retina are not sensitive to blue light

Some people are blue colour blind

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An interface designer creating a user interface involves a quantitative engineering style of working in which measurements are used to judge the quality of the interface. Which of the following evaluation paradigm will be appropriate here?

Choices:

Predictive

Field studies

Quick and dirty

Usability testing



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According to Juran, the fitness for purpose or use, is said to be

Choices:

usability

efficiency

reliability

quality



A student assigned a task to make presentation on "Introduction to HCI", he doesn't know how to make PowerPoint's slides in Microsoft power point. Which of the following dialog will help to make presentation?

Choices:

The index

Shortcuts

Wizards



Splash screen

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You might have experienced deleting a file or folder in Windows XP , A dialog box appears "Do you want to delete file ;" having two option " yes" or "no". Which of the following error dialog appears?

Choices:

Alerts

Confirmation



Feedback

Delete

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Suppose you are an interface designer .While designing a visual interface which of the following will be more effective to understand for human?

Choices:

Use of too many colors

Use of capitalized word

Use of branding

Use of visual symbols

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Question: **31** (Marks: 1)

Attempted Questions: **52** Total Questions: **52**

Graphic designer uses ----- test to ensure that visual interface design employs contrast effectively

Choices:

Visual

Squint

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Graphic

Trunk

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Question: **30** (Marks: 1)

Attempted Questions: **52** Total Questions: **52**

Ali is a visual interface designer, he organizes interface by -----visual cues in individual elements or in the background on which the active elements rest

Choices:

Layering



Contrast



Clutter



Figure



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TEAM HADI (VU)

The established standard suite of _____ for most applications consist of the Save As dialog, the Save Changes dialog and the Open File dialog.

Choices:

OS management

File management



Data management

Application management

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Human Computer Interaction (CS408)

Question: **28** (Marks: 1)

Attempted Questions: **52** Total Questions: **52**

Version numbers should not be given on the _____ of web site since it does not attract users

Choices:

Home page

Main page



Default page

Browser

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Human Computer Interaction (CS408)

Question: **27** (Marks: 1)

Attempted Questions: **52** Total Questions: **52**

Like "You are here" indicators, _____ show you where you are.

Choices:

Site IDs

Sections

Breadcrumbs



Page Names

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_____ is particularly useful early in design. It is excellent technique to use with the prototype because it provides a wealth of diagnostic information.

Choices:

Co-discovery



Active intervention



Splendid research



Storyboarding



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Human Computer Interaction (CS408)

Question: 25 (Marks: 1)

Attempted Questions: 52 Total Questions: 52

_____ are perhaps the least-documented patterns but they are nonetheless in widespread use.

Choices:

Postural

Structural



Behavioral

Mnemonic

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The term _____ derives from systems theory and refers not only to the hardware and software but to the entire environment

Choices:

Operating system

Processor

System



Monitor

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Question: 23 (Marks: 1)

Attempted Questions: 52 Total Questions: 52

----- computers are especially useful for applications that require computational support while the user's hands, voice, eyes or attention are actively engaged with the physical environment.

Choices:

Wearable



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Ubiquitous

Attentive environment

Tangible bits

When you do search on google.com or any other search engine which of the following will help search engine to match user queries with key words in website?

Choices:

Controlled Vocabularies

Thesauri



Accessibility

Metadata

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Question: 21 (Marks: 1)

Attempted Questions: 52 Total Questions: 52

Political campaigns, marketing department ask users inquires by conducting the following interview technique?

Choices:

Focus group



Walkthroughs

Heuristics

Telephonic

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Human Computer Interaction (CS408)

Question: **20** (Marks: 1)

Attempted Questions: **52** Total Questions: **52**

Bricks (TMG, 1990-95) is a graphical user interface that allows _____ control of virtual objects through handles called "Bricks".

Choices:

Random

Direct



In-direct

Temporary

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Human Computer Interaction (CS408)

Question: **19** (Marks: 1)

Attempted Questions: **52** Total Questions: **52**

_____ present a fascinating lens through which we can view the network relationships between systems.

Choices:

Metadata



Thesauri

Accessibility

Ubiquitous computing

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People frequently counter the idea of _____ feedback with arguments that users don't like it

Choices:

Audible



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Video

Walkthroughs

Questions

Adding seven or more additional colors _____ search performance.

Choices:

Degraded



Improved

Have no effect on

Enhanced

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The name of the document should be shown on the application's _____.

- A. Menu bar
- B. Title bar
- C. Title bar and menu bar
- D. Not Title bar and not menu bar

Choices:

Only B



Only D



A and B



A and D



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The _____ function came into being as the result of the implementation model for undo

Choices:

Redo



Undo

Repeat

Delete

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_____ techniques are used individually or in combination and are often supplemented with photos from a still camera.

Choices:

Observation



Evaluation



Qualitative research.



Data collection.



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Question: 13 (Marks: 1)

Attempted Questions: 52 Total Questions: 52

_____ are a well-established technique for collecting demographic data and users' opinions.

Choices:

Questionnaires



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Feedbacks



Interviews




Walkthroughs



The _____ is a concrete expression of the more abstract structure of the site.

Choices:

Skeleton 

Scope

Strategy

Structure

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Every page within a site should contain a brief _____ that accurately describes the content of the page.

Choices:

Site ID.



Header

Local Navigation.

Search button

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Question: **10** (Marks: 1)Attempted Questions: **52** Total Questions: **52**

Evaluations done during design to check that product continues to meet users' needs are known as _____ evaluation.

Choices:

Formative

CHECK IT

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Summative

Relative

Creative

_____ is the extra work that satisfies the needs to achieve our objective.

Choices:

Evaluation

Excise



Testing

Design

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Question: **8** (Marks: 1)

Attempted Questions: **52** Total Questions: **52**

If the user requires access via a navigational portal relatively infrequently, the appropriate posture is _____.

Choices:

Sovereign



Transient



Temporary



Appliance



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Because the user's interaction with a _____ program dominates his session at the computer, the program shouldn't be afraid to take as much screen real estate as possible.

Choices:

Transient

Auxiliary

Sovereign



Daemonic

-----are the visible representations of functions and data in the Interface like Panes, frames, and other containers on screen, Individual buttons, knobs, and other physical affordances on a device etc.

Choices:

Defining Functional and data elements



Determining functional groups and hierarchy

Sketching the interaction framework

Defining form factor and input methods

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Question: 5 (Marks: 1)

Attempted Questions: 52 Total Questions: 52

_____ are people who do not currently use the product, but who are good candidates for using it in the future.

Choices:

Developers

Stakeholder

Potential users



Shareholders

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The Usability Engineering lifecycle was proposed by _____.

Choices:

Deborah Mayhew

Webster

Barry Boehm.

Hartson.

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Interactive features, safety features and reliability are all examples of the _____ requirements of a system.

Choices:

Functional

Non-functional

Multi-functional

Uni-functional

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According to the law of many European and western countries, organizations with a website must ensure that their website is (with in certain limits) accessible by _____.

Choices:

Disabled persons.



Non-disabled persons.

Disabled and Non-disabled persons

Healthy Persons

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The size and shape of a compact disk is a type of _____ constraint.

Choices:

Physical



Logical



Cultural



Graphical

