

CS408 (Human Computer Interaction)
MCQS for midterm fall 2013

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A user is controlling an atomic reactor through computer system is an example of _____

Manipulation

Select correct option:

Direct

Indirect

Both

None of the given

Which of the following type of devices is related to give instructions to the computer?

Select correct option:

input devices

output devices

monitors

hard disks

Which of the following can serve as the most appropriate alternate to "mouse"?

Select correct option:

monitor

keyboard

RAM

touch pad

If we want to access remote system/terminal to work on _____, Protocol is being used;

Select correct option:

FTP

EBCDIC

Telnet

None of the given

Example of form fill interface is _____

Select correct option:

A dialog box

Pop up menus

Data entry form on some university web

All of the given

Gulf of _____ is the difference between the user's formulation of the actions to reach the goal and the actions allowed by the system

Select correct option:

Execution

Evaluation

Interaction

Operation

Which of the following requires less cognitive effort than others?

Select correct option:

listening

speaking

hearing

None of the given

Form-filling interfaces are used for

Select correct option:

data entry

data integration

data manipulation

data definition

Which of the following types of reasoning, derives the logically necessary conclusion from the given premises?

Select correct option:

Deductive

Inductive

Abductive

Distributive

Which of the following is/are aspect(s) of human action?

Select correct option:

execution and evaluation

evaluation and efficiency

efficiency and execution

efficiency

The _____ model should match the _____ model.

Select correct option:

User, conceptual

Conceptual, mental

Mental, central

Conceptual, central

Once the user input into system, the input language is translated into the _____ language as operations to be performed by the system.

Select correct option:

Task

Core

Both

None of the above

Which of the following is a true statement?

Select correct option:

Human-computer interface specialists are user-centered and software engineers are system-centered

Human-computer interface specialists are system-centered and software engineers are user-centered.

Human-computer interface specialists and software engineers, both are system-centered.

Human-computer interface specialists and software engineers, both are user-centered.

What is a semantic network?

A model of long-term memory

A record of our memory of events

The part of the brain which allows us to remember things

A mechanism for improving memory

Which are the most significant senses for the average person when it comes to interacting with a computer?

Sight and hearing

Hearing, touch and smell

Hearing and touch

Sight, hearing and touch

Over a short period of time, we find it easier to remember the string of numbers “404 894 6743” because

Numbers are easier to remember than arbitrary characters.

The grouping of the numbers is significant

Ten numbers is not that many to have to remember from working memory.

None of these

Learnability, flexibility and robustness are three main usability principles that can be considered as general headings for standards and guidelines generation. Which of the following are also high level usability categories that can guide standards and guidelines generation? (i)

Effectiveness (ii) Efficiency (iii) Fault tolerance (iv) Satisfaction

(i) & (ii)

(i), (ii) & (iv)

(ii) & (iii)

(ii) & (iv)

In an organization individuals may keep their own records, or there may be local gurus. This statement concerns with _____. (Page # 176)

Paper work and computer work

Spatial and temporal organizations

Organizational memory

none of these

Which of the following does not count as one of the advantages of computers?

Computers are enabling new discoveries

Leading to efficiencies

Making our life convenient

Depending so much on computers may give fatal results

The gulf of execution refers to _____ (page no 122)

The user's difficulty in understanding the feedback from the system

The system's difficulty in presenting information in the output language

The system's difficulty in converting an input expression into the correct system state transition

The user's difficulty in formulating and articulating an intention to the system

Which of the given statements correctly defines efficiency in terms of one of the usability goals?

It is a very general goal and refers to how good a system at doing what it is supposed to do.

It refers to the way a system supports users in carrying out their tasks.

It involves protecting the users from dangerous conditions

It involves protecting the users from undesired situations

Which of the following is/are goal(s) of usability?

Effectiveness

Efficiency

Safety

All of the given

Which of the following is/are the main component(s) of color?

Hue

Intensity

Saturation

All of the given

Which of the following is not one of the primary colors?

Red

Yellow

Blue

Green

PRIMARY COLORS

Red, yellow and blue

SECONDARY COLORS

Green, orange and purple

TERTIARY COLORS

Yellow-orange, red-orange, red-purple, blue-purple, blue-green and yellow-green

Which of the following is considered as the most complex species?

Humans

Computers

Animals

Birds

The colors, which are directly opposite to each other are said to be

Complementary colors

Analogous colors

Primary colors

Secondary colors

Which of the following is not true regarding “cones”?

A type of receptor in eye

more sensitive to light //rods are sensitive to light not cones

Different types of cones are

Sensitive to different wavelengths of light

Eye has approximately 6 million cones

Formal methods are used to represent

Architectural aspects of software systems only

Procedural aspects of software systems only

Both architectural and procedural aspects of software systems

None of the given

Currently many common environments for interactive computing are examples of the _____ interface style, often simply called windowing systems.

Three-dimensional

WIMP

Point and click

None of these

Using icons on the desktop to represent operations is a type of _____ constraint.

Physical

Logical

Cultural

None of these

_____ is a term used to refer to an attribute of an object that allows people to know how to use it.

Visibility

Affordance

Constraint

None of these

_____ minimizes errors.

Affordance

Visibility

Constraints

None of these

Which of the following is proportional to the amplitude of the sound; the frequency remains constant?

Pitch

Loudness

Timbre

None of these

_____ plays a role to bridge up the gap between the interfaces of machines and human understanding.

Human

Computer

Human Computer Interaction

None of these

The persona's needs are sufficiently unique to require a distinct interface form and behavior is _____ type of Persona.

Primary

Secondary

Supplement
Negative

A _____ is usually a collection of icons those are reminiscent of the purpose of the various modes.

Button
Pointer
Palette
Title bar

The persona is not an actual user of the product, but is indirectly affected by it and its use refers to _____ persona

Primary
Secondary
Served
Negative

During _____ phase, usage and workflow patterns discovered through _____.

Modeling, analysis
Analysis, modeling
Testing, modeling
Testing, Analysis

The Usability Engineering lifecycle was proposed by _____.

Deborah Mayhew
Webster
Barry Boehm.
Hartson

Waterfall model is basically a _____ model in which each step must be completed before the next step can be started

Incremental
Linear
Iterative
Analytical

Models are used in design to

Generate the design
Evaluate the design
Generate and evaluate the design
None of the given

What is a semantic network?

A model of long-term memory
A record of our memory of events

the part of the brain which allows us to remember things
a mechanism for improving memory

You can load a VCR tape the right way because of _____.

Physical constraints

Logical constraints
Cultural constraints
None of these

_____ are unintentional while _____ occur through conscious deliberation.

Slips, mistakes

Errors, slips
Mistakes, errors
Mistakes, slips

What is the main strength of the Problem Space Framework as a model of human problem solving?

It operates within the constraints of the human processing system

It explains what is involved in insight
It allows ill-defined problems to be solved
None of these

_____ is the process of selecting things to concentrate on, at a point in time, from the range of possibilities available.

Perception and recognition

Attention

Learning
None of these

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

Menu bar

Title bar

Title bar and menu bar
Not Title bar and not menu bar

Interpretation inquiry, according to Beyer and Holtzblatt, is based on a master-apprentice model of learning.

True

False

Contextual inquiry, according to Beyer and Holtzblatt, is based on a master-apprentice model of learning

_____ is a powerful, multipurpose design tool that helps overcome several problems that currently plague the development of digital products.

Scenario
Persona
Prototype

The difference between the intentions and allowable actions is the:

Gulf of Execution
Gulf of Evaluation
None of these

Attention is the process of selecting things to concentrate on, at a point in time, from the range of

Possibilities available
Time Available
None of these

The goals of HCI are:

Usability and User Experience
Learn ability and Comfort
Tasks and Goals.

WYSIWYG stands for _____.

Where you see is where you get
What you see is what you get
When you see it when you get

_____ is proportional to the amplitude of the sound.

Pitch
Loudness
Timber

_____ are individual and isolated regions within display that can be selected by the user to invoke specific operations.

Buttons
Pointers
Menus
Windows

User personas that are not primary or secondary are _____ personas.

Served
Negative
Customer
Supplemental

Which of the following is the comparison of what happened in the world with what we wanted to happen?

Action
Evaluation

Execution
None of these

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

Physical
Logical
Cultural
None of these

_____ Research can tell you about what, how, many and why in rich, multivariate detail

Quantitative
Qualitative
SME
None of these

Which of the given statements correctly defines effectiveness in terms of one of the usability goals?

It is a very general goal and refers to how good a system at doing what it is supposed to do.

It refers to the way a system supports users in carrying out their tasks.
It involves protecting the users from dangerous conditions
It involves protecting the users from undesired situations

Which of the following requires less cognitive effort than others?

Listening
Speaking
Hearing
None of the given

We are deficient in our development _____, not in our development _____ (respectively).

Process, Tools
Tools, Process
Tools, Methodology
None of these

Which of the following is not true?

Utility refers to the functionality of a system
Usability is concerned with adding complexity to the system
Usability is concerned with making systems easy to use
poorly designed computer system can be extremely annoying to users

The command line interface is used because

It is easy to understand
It is demanded by DOS
It is offered by UNIX systems
It is powerful and flexible.

Which of the following is concerned primarily with understanding human behavior and the mental processes that underlie it?

Cognitive Psychology
Sociology
Statistics
Computer Science

HCI deals with

Design of interactive system only
Evaluation of interactive system only
Implementation of interactive system only
All of the given choices

Human beings interact with outside world, using their
input channels
output channels
sense of sight

All of the given

Visually impaired persons can interact with outside world using their

Sense of sight
Sense of hearing
Both sense of touch and sense of hearing
Sense of touch

_____ refers to the relationship between controls and their effects in the world.

Visibility
Affordance
Mapping

_____ is a very general goal of Usability and refers to how good a system at doing what it is supposed to do.

Effectiveness
Efficiency
Utility

_____ is what goes on in our heads when we carry out our everyday activities?

Cognition
Learnability
Memorability

_____ is the process by which we use the knowledge we have to draw conclusions or infer something new about the domain of interest.

Decision Making

Reasoning

Problem Solving

_____ research helps us understand the domain, context and constraints of a product in different, more useful ways than _____ research do.

Qualitative, Quantitative

Quantitative, Qualitative

None of them.

_____ refers to the way a system supports users in carrying out their tasks.

Efficiency

Effectiveness

Utility

_____ are GUIs that consists of electronic counterparts to physical objects in the real world to match the knowledge requirements of users.

User Interaction Models

Conceptual Models

Interface Metaphors

_____ language tends to be grammatical while _____ language is often Ungrammatical.

Written, spoken

Spoken, written

None of the given choices

Aspect gives us hints and tips about using and creating user interface idioms.

Strategic

Tactical

None of the given choices

Ali wants to develop an application that incorporates print, audio video media and software applications on a single place. Which of the following will help in this regard?

MS World

Worldwide Web

Television Newspaper

Ali is looking at how interface designers went about their work. He identified two different modes of activity one is _____ and other is _____.

Analytic mode, synthetic mode

Evaluation mode, testing mode

Analyze mode, feedback mode

Implementation mode, task mode

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

Modeling, Implementation

Modeling, Research

Research, Implementation

Research, Modeling

_____ are dragged down from the title at the top of the screen.

Pull Down Menus

Main Menus

Icons

Buttons

When you engaged in a conversation you are more attentive what the other person is saying. It is called?

Focused Attention

Voluntary Attention

Involuntary attention

Divided Attention

Drive a vehicle while holding a conversation with a passenger is the example of _____

Focused Attention

Voluntary Attention

Involuntary attention

Divided Attention

GOMS stands for

Goals operation methods and selection rules

Goals objects models and selection rules

Goals operations methods and state rules

Goals operations models and state rules

_____ represent the user's expectations of the tangible outcomes of using a specific product.

Non-user goals

End goals

Experience goals

Life goals

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

Postural

Structural

Behavioral

Mnemonic