

HUMAN COMPUTER INTERACTION

BS-SE(13)

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Module: **14**

Question 1 (a):

Answers: The main aim of Don Norman's was that no one is reading manuals so the things should be designed in that manner so that we don't need manuals.

Question 1 (b):

Answers:

Deductive Reasoning: Deductive are general rules to particular, In depth if the state of origin is true then opinion must be true.

(e.g) It is Friday then he will go to work
It is Friday we have to pray jumma.

Abductive Reasoning: Abductive Reasoning is the fact of deriving the action or state to cause.

(e.g) Sam always drive fast when he drunks
If I see Sam driving fast assume that he is drunk.

Question 2:

Answers:

Stage 1: Establishes the goal: In this stage I will need to repair the tyre.

Stage 2: Forming the Intention: the repaired tyre will accomplished my goal

Stage 3: Specifying an action: I will need to repair the tyre to meet my goal requirement

Stage 4: Executing the action: In this stage I will take steps to repair the tyre.

Stage 5: Perceiving the state of world: so using sense to gather information, the repaired tyre will able to move to the market

Stage 6: Interpreting the state of the world: Punctured tyre has changed and it will move now.

Stage 7: Evaluating the system: so i have achieved my goal i will move towards market with any worries

Question 3 (a):

Answers: Differentiating through Norman's gulf of execution.

Slip: If you are well known to a software or website what exactly you need to do to satisfy your goals and accidentally you mis-type and click on the submit button or mouse click at the wrong time this is called slip.

Mistake: If you are not familiar with the software or website, you may not state the right goals.

Question 3 (b):

Answers

Self Perception: Self perception is a process by which people develop their view of themselves. It is developed from the social interaction within different groups.

Object Perception: Object perception is a process by which people develop a view of the object they see.

Question 4 (a):

Answers: Below steps are involved in the perceptual process:

- Environmental Stimulus
 - Attended stimulus
 - The image on the Retina
 - Transduction
 - Neural Processing
 - Perception
 - Recognition
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Question 4 (b):

Answers: perception is the perceive of stimulus objects in the environment. It is at this point that we become consciously aware of the stimulus whereas in recognition perception does not just involve becoming consciously aware of the stimulus. It is also necessary for our brain to categorize and interpret what it is we are sensing.

Question 5 (a):

Answers:

Problem Domain: designer need to research and using his creativity, he will need to identify the problem domain

Goal: creating 3d shapes and selecting gradient color

Task: applying gradient color on the 3d shape and giving drop shadow effect with proper position.

Question 5 (b):

Answers:

Gulf of Execution: The perception of the user that required the system interaction to take action to accomplish a specific goal. (e.g) e-commerce websites

Gulf of Evaluation: The perception of the user to understand the state of the system. (e.g) uploading files on the server: progress bar showing the state of uploaded files

Note: *According to marks i keep the answer shorts.*