



## UNIVERSITY OF COLOMBO, SRI LANKA



## UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

## DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

Academic Year 2019 – 2<sup>nd</sup> Year Examination – Semester 3

IT3405 – User Interface Design Part 1 - Multiple Choice Question Paper

> 30<sup>th</sup> June 2019 (ONE HOUR)

## Important Instructions:

- The duration of the paper is 1 (one) hour.
- The medium of instruction and guestions is in English.
- The paper has 25 questions and 06 pages.
- All questions are of the MCQ (Multiple Choice Questions) type.
- All guestions should be answered.
- Each question will have 5 (five) choices with **one or more** correct answers.
- All questions will carry equal marks.
- There will be a penalty for incorrect responses to discourage guessing.
- The mark given for a question will vary from 0 (All the incorrect choices are marked & no correct choices are marked) to +1 (All the correct choices are marked & no incorrect choices are marked).
- Answers should be marked on the special answer sheet provided.
- Note that questions appear on both sides of the paper.
   If a page is not printed, please inform the supervisor immediately.
- Mark the correct choices on the question paper first and then transfer them to the given answer sheet which will be machine marked. Please completely read and follow the instructions given on the other side of the answer sheet before you shade your correct choices.
- Calculators are **not** allowed.
- All Rights Reserved.

(a) Motion detection (b) Detection of environmental conditions (c) Audio processing (d) Converting electrical signals into physical signals (e) Multi-channel connection between users and devices 2) Which of the following is a/are basic component/s of the HCI Model? (a) Human User (b) Modality (c) Interaction (d) Usability (e) Computer 3) Which of the following is an/are advantage/s of prototyping? (a) Enables early detection of errors (b) Users can see a solution emerging that meets their needs (c) System documentation is often absent or incomplete (d) Users can try the system and provide constructive feedback during development (e) System backup and recovery, performance, and security issues can be overlooked Which type of user interface(s) provides input by typing a string on the keyboard? (a) Graphical user interface (b) Command line user interface (c) Natural user interface (d) Menu interface (e) Gesture-based Interface 5) Which is the **most suitable definition** for an interface metaphor? (a) An idea taken from the real world that is used to help the user understand what to do (eg: click on tabs to change window contents, store items to be purchased using a shopping cart) (b) The kind of technical and software framework within human-system takes place (eg: WIMP, mobile, tangible) (c) What the human does to make inputs and receive information from the system (eg: click and drag an object, talk to an object, move closer to an object, converse with an entity, (d) The conceptual model used to guide the design of the interface. (e) An instruction on an interface signaling how to use the interface.

In the context of rich interaction with devices, sensors enable

What is the main interaction	mode for a Microsoft Kinect syst	tem?		
(a) Gesture and body m	ovements			
(b) Haptic (touch) inter	face			
(c) Pointing and Clicking				
(d) Infrared position de				
(e) Exploring and brow	sing			
Which of the following is a	are slip/s in human error?			
(a) Press the Cancel bu	tton when planning to Save			
(b) Manual addition in	a spreadsheet			
(c) Typing mistakes				
(d) Format using blank spaces				
(e) Forgetting to save a document when shutting down the computer				
That is the correct statement to complete the blank space in the following sentence?				
nre	dicts that the time to point at an ob	piect using a device is a function		
	get object and the target object's size			
(a) Fitt's Law				
(b) GOMS models				
(c) KLM methods				
(d) 2 Gulfs in Interaction	n			
(e) SPARK				
Personas are helpful becaus	e they			
(a) explore different wa	ys to use the same system			
(b) provide a consistent	(b) provide a consistent model for all team members			
(c) capture user characteristics				
(d) validate the models	for design			
(e) help identify multip	le goals			
Which individual invented to	he mouse?			
(a) Douglas Engelbart	(b) J.R. Licklider	(c) Alan Kay		
(d) Tim Berners Lee	(e) Vannevar Bush	•		

11)	What is the correct word to	complete the blank space in th	e following sentence?	
	is the design aspect clue to its function and use.	of an object which suggests he	ow the object should be used; a visual	
	(a) Consistency	(b) Visibility	(c) Constraint	
	(d) Flexibility	(e) Affordance		
12)	A Natural User Interface car	n accept input in the form of		
	(a) String command	(b) Speech	(c) Images	
	(d) Touch	(e) Body movement		
13)	Which of the following is/ar	re true with respect to ergonon	nics in Human-Computer Interaction?	
	(a) Ergonomics is a lega	•		
		operational costs of running a nay affect the lifetime of the party.		
			ng identification of requirements	
		ties of an interface will help to		
14)	Which of the following is/ar	re addressed by providing acce	elerators (e.g. keyboard shortcuts)?	
	(a) Efficiency	(b) Learnability	(c) Visibility	
	(d) Utility	(e) Likeability		
15)	Which of the following is a/	are memory propagation techn	nique/s in human memory?	
	(a) Semantics	(b) Attention	(c) Deduction	
	(d) Rehearsal	(e) Inclusion		
16)	What is the difference between	een slips and mistakes?		
	<ul> <li>(a) They are interchangeable terms that both mean "human error."</li> <li>(b) Slips refer to human errors, and mistakes refer to software-system errors.</li> <li>(c) Slips occur due to novice behavior whereas mistakes occur due to Unconsciou behavior.</li> </ul>			
			one action but instead ends up doing have goals that are inappropriate for	
		<del>_</del>	ne action but instead ends up doing is have goals that are inappropriate for	

(a) An undetected error may occur in a layer (b) A catastrophic error could occur due to weaknesses in a fewer layers (c) Modular or Layered architecture needs to be organized to avoid system failures (d) Each slice of cheese is an opportunity to stop an error (e) The number and size of holes in each slice of cheese affect the probability of errors  Which of the following is best described by the statement given below?  "An informal narrative description of human activities or tasks in a story that allows exploration and discussion of contexts, needs, and requirements."  (a) Use case (b) Storyboard (c) Persona (d) Scenario (e) Essential use case  PACT consists of four main components namely People, Activities, Context, and Technologies. Which of the following is a/are main feature/s of an Activity component?  (a) Financial aspects (b) Safety-critical (c) Complexity (d) Temporal aspects (e) Design aspects (e) Design aspects  (e) Design aspects  Which of the following statements is/are true regarding the mental model in Human-Computer Interaction?  (a) Mental model is independent of the user's belief (b) Mental model of users is not a concern in User Centered Design (e) A metaphor will create a strong effect on the Mental model at the beginning  Which of the following is a/are benefit/s of usability?  (a) Increase customer satisfaction (b) Efficiency of completing a task (c) Minimize the cost of User training (d) Reduced maintenance costs (e) Increase development time and costs	17)	Which of the following statements is/are true regarding the Swiss Cheese Model?				
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(c) Minimize the cost of User training (d) Reduced maintenance costs						
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- In the context of human-computer interaction, which of the following is/are true with respect to batch processing?
  - (a) There is no time gap between input and output
  - (b) The user always feels that he is in control
  - (c) Users get instant feedback
  - (d) The user has to wait to obtain the system feedback to interact with the system
  - (e) Waiting time will increase the gulf of evaluation
- 23) Which of the following is/are true with respect to accessibility?
  - (a) Accessibility is an important legal and ethical requirement
  - (b) Accessibility comes before usability
  - (c) Exclusion does not affect accessibility
  - (d) Aging and awareness affect accessibility
  - (e) Adaptability affects accessibility
- 24) Which of the following statements is/are true with respect to focus groups?
  - (a) Participants are typically selected to be a representative sample of the target population.
  - (b) Focus groups are appropriate for discussing sensitive topics.
  - (c) Focus groups are most often used as an input to design.
  - (d) Focus groups are used in the final stage of the design cycle.
  - (e) Focus groups can be used to obtain information about a domain
- 25) Usability is concerned with
  - (a) how many people can use a website at a time
  - (b) the appearance of a website or a product
  - (c) the ease of use with which a user can interact with a system
  - (d) the length of time it takes for a web page to load
  - (e) removing the barriers that would otherwise exclude some people from using the system at all

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