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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

VII SEMESTER B.TECH. (COMPUTER SCIENCE AND ENGINEERING) END SEMESTER REGULAR EXAMINATIONS, DECEMBER 2021 SUBJECT: HUMAN COMPUTER INTERACTION [CSE 4069] REVISED CREDIT SYSTEM 20/12/2021[online]

TIME : 2.00 PM – 4.50 PM

MAX.MARKS : 50 M

Instructions to the Candidate

- Answer both Part A (30 Marks) and Part B (20 Marks)
- Part B to be handwritten, scanned and upload on MS Teams
- Missing data may be suitable assumed.

PART-B: Descriptive

Time: 2.20 PM - 3.35 PM

Max. Marks: 20M

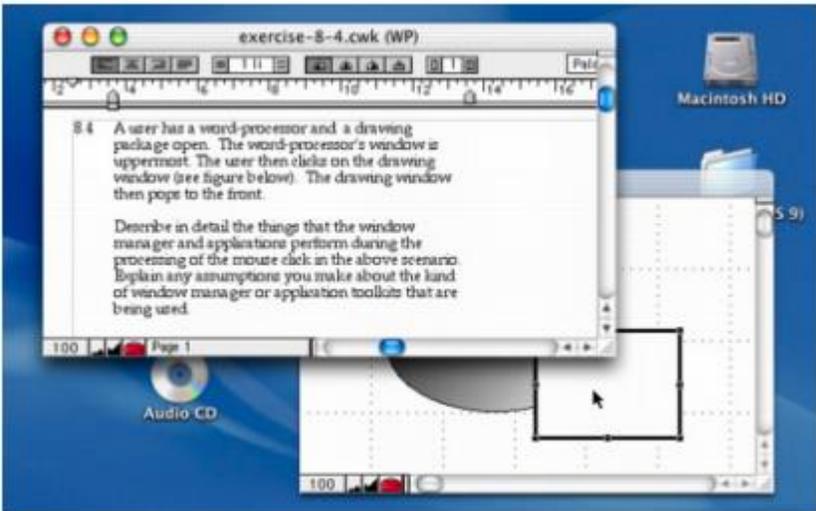
1A	Choose one paradigm of interaction and find three specific examples of it. Compare these three examples- can you identify any general principles of interaction that are embodied in each of your examples?	5M
1B	How the factors are in the physical environment, that directly affect the quality of the interaction and the user's performance.	3M
1C	Differentiate between auditory icons with earcons? How can they be used to benefit both visually-impaired and sighted users?	2M
2A	<p>A user has a word-processor and a drawing package open. The word-processor's window is uppermost. The user then clicks on the drawing window (see figure 1 below). The drawing window then pops to the front.</p> <p>Describe in detail the things that the window manager and applications perform during the processing of the mouse click in the above scenario. Explain any assumptions you make about the kind of window manager or application toolkits that are being used.</p> <div style="text-align: center;">  </div>	5M

Fig. 1

2B	Design a manual page for making a cup of coffee. Assume your user has no experience but will recognize a cup, a kettle, a spoon, etc. Swap your manual with a partner. Does your partner's manual give you sufficient instruction to make the cup of coffee? Discuss improvements with your partner and agree on a final version of the manual.	3M
2C	Choose the following systems. With respect to the chosen systems, Identify the key stakeholders for each system and outline how you would gather information on user requirements. (i) An electronic point of sale system for a large supermarket chain. (ii) A system for providing information about train services to waiting passengers (iii) A groupware system to support students on a distance learning degree course. (iv) An electronic banking system running on the world wide web.	2M

-ALL THE BEST-