

Code: 9F00504b

MCA V Semester Regular & Supplementary Examinations October/November 2017

HUMAN COMPUTER INTERACTION

(For 2012, 2013, 2014 & 2015 admitted batches only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Discuss the impact of inefficient screen design on processing time with an example.
(b) Compare a 1970's screen, a 1980's screen and a 1990's and beyond screen.
- 2 (a) Compare the application oriented approach and object oriented approach in designing GUI.
(b) Discuss the following principles of user interface design:
 - (i) Transparency.
 - (ii) Simplicity.
 - (iii) Responsiveness.
 - (iv) Recovery.
- 3 (a) Describe the models for determining basic business functions.
(b) Compare the front page design and web page design.
- 4 (a) Discuss how a poor screen design can distract the user and what a user expects in good screen design.
(b) Design a user interface online picnic planner. It should allow users to select the picnic spot depending on distance, type, number of people, transport, food etc. Assume suitable data and draw interface.
- 5 (a) Identify the characteristics and capabilities of the following device based controls:
 - (i) Track ball.
 - (ii) Light pen.
(b) What are the typical characteristics of proper screen-based controls?
- 6 (a) What are the issues to be considered in designing title bar and message box?
(b) What are common message types? Explain briefly.
- 7 (a) What widgets are supported in user interface building blocks?
(b) Explain the role of software engineering tools in building the user interface.
- 8 (a) Distinguish between QWERTY and DVORAK layout style.
(b) Write short notes on:
 - (i) Speech recognition digitization and generation.
 - (ii) Designing for visually impaired.
