

Human Machine Interaction

Q.P. Code : 724102

(3 Hours)

[Total Marks : 80

- N.B. :** (1) Q 1 is **Compulsory**
(2) Solve any **3** from remaining Questions
(3) Please specify your answers with neat sketches and Example wherever necessary
(4) Assume any data if not specified

1. Solve any **five** of the following. **20**
- (a) What do you mean by response time?
 - (b) What do you mean by direct manipulation and indirect manipulation
 - (c) Discuss issues related to Long Term Memory and short Term Memory.
 - (d) What do you mean by keyboard accelerators?
 - (e) Explain importance of Text Messages with respect to communication with user.
 - (f) What are the three levels of processing? Explain
2. (A) Give Brief description on GUI versus Web Page. **10**
(B) In the state of Maharashtra, Rationing Department want to provide self-help portal for its customers. The portal consists of Information about basic need supplies, Online application for ration cards, Schemes for Low income groups, Adding a name of family members, deletion of name, Complaints and other facilities. Being a Subject Matter Expert (SME) provide the detailed analysis and for the same provide the Interface that will be used by people in all Districts of Maharashtra **10**
3. (A) What do you mean by Qualitative and Quantitative Research? State various interview technics? **10**
(B) Provide suitable Analysis and Interface Design for State Road Transport corporations Information KIOSK that will be installed on major Bus stands of Indian state and it will have Local National and International Language (English) consider Hindi or Marathi as a local Language and provide detailed analysis. **10**

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4. (A) Provide all factors of Interface design? Provide innovative web application by integrating the technologies that are used in Interface design. **10**
- (B) Provide a systematic design analysis for Municipal Corporation's Mobile App; that provides information about the wards, their ward office, corporators in the ward, Schools Hospitals in the ward and other information of the Municipal Office, your analysis should consist of all necessary interface guidelines. **10**
5. (A) What do you mean by persona? Mention steps in constructing persona **10**
- (B) What are various methodologies adopted for Feedback and guidance? Consider multimedia, File Download and Software Installation and state how we can create a dialog with user to communicate the Time factor for each one. **10**
6. Write Short Notes on ANY FOUR **20**
- (a) Human Centric Design
 - (b) Designs for accommodating Users
 - (c) Logo Design
 - (d) Menus in HMI
 - (e) Graphics Icons and Images
 - (f) Windows
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