

Human machine Interaction



Q.P. Code : 724100

(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

- What are the three levels of processing? Explain
- Explain Goal Directed design process in brief.
- Mention steps in constructing persona
- What do you mean by direct manipulation and indirect manipulation
- Discuss issues related to Long Term Memory and short Term Memory.
- What do you mean by keyboard accelerators?

2. (A) How reading is important in UI Design? Write your comments related to the quote "Poor Design may affect Reading".

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(B) In the state of Maharashtra, Water Distribution Company want to provide self- help portal for its customers. The portal consists of online meter logging facility, Bill Payments, VDS i.e Voluntary Deposit Scheme for Bill. 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

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3. (A) What are the advantages and Disadvantages of Digital or Graphical systems? Explain in brief.

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(B) It is necessary to provide state of an art digital KIOSK for Rural India where citizens can register for Birth/ Death Certificates, Insurance premium payments, Postal Schemes such as Investments , Money Transfer etc. The application will be easy and multilingual to be configured in Local Language. Provide suitable Analysis and Interface design for the same.

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2

4. (A) Provide all factors of Interface design? Provide innovative web application by integrating the technologies that are used in Interface design. 10
- (B) What do you mean by device based and screen based control, Explain? 10
5. (A) What do you mean by response time? What are various methodologies adopted for Feedback and guidance? 10
- (B) Provide a systematic design analysis for Municipal Corporation's Mobile App; to perform Tax and billing related transactions such as Registration of client, Describe the Property, get Tax and water Charge bills, pay tax, Complaints and many other relevant operations. 10
6. Write Short Notes on ANY FOUR 20
- (a) Qualitative and Quantitative Research
 - (b) Mental Model
 - (c) Gestalt's Principles
 - (d) Graphics Icons and Images
 - (e) Colors
 - (f) Web Navigation
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