Examination:	November-December 2016	**Date:**	9-12-196
Branch:	Computer Engineering	**Subject:**	HMI
Class/SEM:	BE/VIII	**Paper Code:**	724100

Examination:	November-December 2016	**Date:**	25-11-16
Branch:	Computer Engineering	**Subject:**	DF
Class/SEM:	BE/VIII	**Paper Code:**	725003

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

2. (A) How reading is important in UI Design? Write your comments related   10
       to the quote "Poor Design may affect Reading".

   (B) In the state of Maharashtra, Water Distribution Company want to provide   10
       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

3. (A) What are the advantages and Disadvantages of Digital or Graphical   10
       systems? Explain in brief.

   (B) It is necessary to provide state of an art digital KIOSK for Rural India   10
       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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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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(3 Hours)

[Total Marks 80

N.B.
(1) Question No. 1 is Compulsory.
(2) Attempt any THREE questions out of remaining five questions.
(3) Assume any suitable data if required with justification.

Q. 1   a) What do you mean by incident response methodology? Explain all components of it.   10

b) What do you mean by digital evidence? What are the challenges involved in evidence handling?   10

Q. 2   a) List and explain in brief steps taken to collect live data from UNIX system.   10

b) Explain procedure to investigate routers.   10

Q. 3   a) Explain the terms : i) DMCA   (ii) CFAA   (iii) CANSpam   10

b) What are the steps involved in forensic analysis? Explain each in brief.   10

Q. 4   a) What are various hacking tools? Explain any two in details.   10

b) Explain the bodies of law. Explain the levels of law.   10

Q. 5   a) Write the differences between: 10
(i) netcat and cryptcat   (ii) Virus and Worms.

b)Explain procedure for recording cryptographic checksums of critical files. What are the advantages of it ?   10

Q. 6   Answer **any four:**   20
a) Write short notes on Evidence Validation.
b) Explain the terms ; Forensic Duplicate, Qualified Forensic Duplicate .
c) Write short notes on Internet Fraud.
d) Explain techniques used to recover the deleted files.
e) Explain the storage layer of the file system.
f) Explain levels of culpability.