

Reference

Reg. No. :

D 2161

Q.P. Code : [D 07 PIT 01]

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2013.

First Year

Information Technology

OBJECT ORIENTED ANALYSIS AND DESIGN

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. (a) Explain the properties of class hierarchy. (10)
(b) Discuss the various components of software development process. (10)
2. (a) What is the function of Booch methodology explain. (10)
(b) Explain the various components of UML class diagram. (10)
3. (a) With neat diagram explain the use case model. (15)
(b) How to select classes from the relevant and fuzzy categories? Explain. (5)

4. (a) Explain the basic of design patterns. (10)
(b) Discuss the following concepts
(i) Class visibility (5)
(ii) Attribute types. (5)
5. (a) Explain some testing strategies in detail. (10)
(b) Discuss the basics of usability testing. (10)
6. (a) Give an account of the following concepts.
(i) Object oriented analysis–use case driven (5)
(ii) Prototyping. (5)
(b) Discuss some advanced topics available in OOAD. (10)
7. (a) State and elaborate pattern template. (10)
(b) Discuss the basics of layered approach. (10)
8. (a) Explain the super-sub class relationships in detail. (10)
(b) Discuss about how to design a view layer class. (10)

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Q.P. Code : [D 07 PIT 02]

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M.Sc. DEGREE EXAMINATION, MAY 2013.

First Year

Information Technology

ADVANCED JAVA PROGRAMMING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

Each question carries 20 marks.

(5 × 20 = 100)

1. Explain in detail the concept of JMF.
2. What is dynamic memory allocation? Describe the dynamic memory allocation used in Java.
3. With suitable example, explain how to develop a java bean.
4. (a) List out the classes used in Java.net API. Discuss. (10)
(b) Distinguish between connection oriented and connection less communication in Java. (10)

5. Describe about the distributed component object model.
 6. (a) What are the types of drivers used in Java? Discuss. (5)
(b) Illustrate with an example program for accessing database. (15)
 7. Briefly explain some of the components used in swing.
 8. (a) What are the uses of Jar file? (10)
(b) Explain how to extract the contents of a JAR File and how to verify the signature of a JAR file? (10)
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D 2163

Q.P. Code : [D 07 PIT 03]

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2013.

First Year

Information Technology

DISTRIBUTED COMPUTING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. Explain the process of designing a distributed processing systems.
2. (a) Write a short note on DAM Architecture. (10)
(b) Describe the challenges of distributed data. (10)
3. Explain in detail the distributed data bases with a neat diagram.
4. (a) Give a brief note on the database decision trees. (10)
(b) Describe the importance of ratio analysis.(10)

5. Describe partitioning and allocation method.
 6. Explain the working of file servers.
 - (a) XDFS
 - (b) CFS
 - (c) Shallow
 - (d) NFS
 - (e) Amoeba.
 7. Write a detailed account on the different types of services and client service model of a file server.
 8. Describe the various issues of distributed data design.
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Q.P. Code : [D 07 PIT 04]

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M.Sc. DEGREE EXAMINATION, MAY 2013.

First Year

Information Technology

MULTIMEDIA SYSTEMS

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

Each question carries 20 marks.

(5 × 20 = 100)

1. Discuss in detail about the various elements of multimedia systems.
2. (a) Compare and contrast SCSI with MCI.
(b) Give an account on communication devices.
3. (a) Explain about hypertext and hypermedia. (8)
(b) Summarize the ideas behind MPEG. (12)
4. Write an essay about application subsystem.

5. Describe the concept behind multimedia O.S. in detail.
 6. Illustrate the various data structures for storage.
 7. Write short notes on the following :
 - (a) Synchronization and presentation (12)
 - (b) QOS. (8)
 8. Explain the devices used for input and output with multimedia systems.
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