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Reg. No. : .....

**D 2226**

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2014.

First Year

Information Technology

**OBJECT ORIENTED ANALYSIS AND DESIGN**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

Each questions carries 20 marks.

(5 × 20 = 100)

1. Describe the object oriented systems development life cycle in detail.
2. Discuss the key aspects of Booch and Jacobson methodologies.
3. List the various approaches used for identifying classes and explain any two.
4. Explain the important issues related with access layer and view layer.

5. Give an overview of usability testing and user satisfaction testing.
  6. Elaborate the object – oriented philosophy and object basics in detail.
  7. Describe the basics of unified modeling language and explain the role of its modeling diagrams.
  8. Write short notes on the following :
    - (a) Use – case model. (10)
    - (b) Object – oriented design axioms. (5)
    - (c) Quality assurance testing. (5)
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D 2227

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2014.

First Year

Information Technology

ADVANCED JAVA PROGRAMMING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. (a) What are threads? How are threads used? Explain the associated issues in detail. (13)
- (b) Give a discussion on media techniques. (7)
2. (a) Explain the basics of event handling and java components. and describe their important in java. (10)
- (b) Discuss the primary java networking features. (10)
3. Give an overview of Java data structures. (20)

4. (a) Explain how to write java content handlers and protocol handlers. (8)
- (b) Elaborate the distributed application architecture and discuss the issues with building distributed applications using java. (12)
5. (a) Describe the bean concepts in detail. (12)
- (b) What is a socket? What are the types of sockets? Explain. (8)
6. (a) Give an introduction to database programming using JDBC. (10)
- (b) Discuss the keys aspects related with integrating database support into web applications. (10)
7. (a) Describe the java's internationalization support. (10)
- (b) Explain working with swing components. (10)
8. Write short notes on the following :
  - (a) JAR file creation and usage. (5)
  - (b) Working with remote objects (10)
  - (c) Creating multimedia databases. (5)

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**D 2228**

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

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M.Sc. DEGREE EXAMINATION, MAY 2014.

First Year

Information Technology

**DISTRIBUTED COMPUTING**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. (a) Describe the basics of networks and interconnection structures. (10)  
(b) Explain the issues associated with designing a distributed processing system. (10)
2. (a) Discuss the pros and cons of distributed processing. (8)  
(b) Elaborate the important aspects related with managing the distributed resources. (12)
3. (a) Explain the challenges of distributed data. (10)  
(b) Describe the division of responsibilities that are assigned either to the distributed sites or central headquarters in the distributed processing system. (10)

4. (a) Discuss the communication line loading and network configuration aspects of communications systems design. (12)
- (b) Elaborate the role of partitioning and allocation approach in network software design. (8)
5. (a) Explain the considerations and guidelines for designing databases for a distributed network. (12)
- (b) Discuss the features of file server and print server. (8)
6. Give an overview of client server network model. (20)
7. (a) Compare the features of distributed and centralized databases. (7)
- (b) With respect to distributed database, explain the levels of distribution transparency. (13)
8. (a) Outline the architecture and other features of  $R^*$  system. (13)
- (b) Summarize the problems of heterogeneous distributed databases. (7)

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**D 2229**

**Q.P. Code : [D 07 PIT 04]**

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2014.

First Year

Information Technology

**MULTIMEDIA SYSTEMS**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. (a) Describe the usage of text in multimedia projects. (10)
- (b) Discuss the various aspects associated with using Sound in multimedia projects. (10)
2. (a) Explain the principles of animation. (8)
- (b) Elaborate the issues related with using video. (12)
3. (a) Summarise the features of different kinds of input devices and output hardware used in multimedia. (14)
- (b) Explain the role of SCSI and MCI. (6)

4. Give an overview of different categories of basic software tools. (20)
5. (a) Explain how to link multimedia objects and the importance of office suites. (10)  
(b) What are hypermedia and hypertext? Discuss the issues to be considered when designing the user interface. (10)
6. (a) Elaborate the application and transport subsystems. (10)  
(b) Explain multimedia synchronization. (10)
7. (a) Discuss the functions of multimedia operating system. (10)  
(b) Explain the importance of multimedia DBMS. (10)
8. Write short notes on the following :
  - (a) Storage and communication devices. (6)
  - (b) Using images in multimedia. (7)
  - (c) Multimedia on networks. (7)