

Reg. No. :

D 2260

Q.P. Code : [D 07 PIT 05]

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2014.

Second Year

Information Technology

PROGRAMMING IN C# AND . NET FRAMEWORK

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. (a) Describe the .Net framework. (10)
(b) Write a C# program that stores a list of numbers in an array and computes the maximum and minimum values in the list. (10)
2. (a) How are C# datatypes categorized? Explain in detail. (10)
(b) With examples, explain the C# literals. (10)
3. What are the constructs used in C# language for performing loop operations? Discuss. (20)

4. (a) How are enumerations defined and used in C#? Explain. (10)
 - (b) Describe the usage of constructors and destructors. (10)
 5. (a) Discuss the concept of operator overloading in detail. (12)
 - (b) Write a note on 'Events'. (8)
 6. Elaborate the key aspects related with 'methods' in C#. (20)
 7. (a) Describe the multilevel and hierarchical inheritance. (10)
 - (b) Compare operation polymorphism and inclusion polymorphism. (10)
 8. Explain the important aspects associated with managing console input and output operations. (20)
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D 2230

Q.P. Code : [D 07 PIT 06]

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M.Sc. DEGREE EXAMINATION, MAY 2014.

Second Year

Information Technology

COMPONENT BASED SYSTEMS

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. Describe the architectural view of distributed objects and components in CORBA and COM/DCOM. (20)
2. (a) Explain the important aspects of event driven programming. (10)
(b) Discuss the issues associated with concurrency in server objects. (10)
3. (a) Give an overview of java ORBs. (10)
(b) Elaborate the ORB run-time system. (10)

4. (a) Explain the CORBA events. (10)
- (b) Discuss the following CORBA features. (10)
 - (i) Interface Repository
 - (ii) DII
 - (iii) DSI.
5. Explain in detail about query processing and transaction management in distributed object database management. (20)
6. (a) Describe the concepts of object and object model features. With respect to distributed object DBMS. (10)
- (b) Discuss the key aspects related to object management and DOM architecture. (10)
7. Summarise the strengths, features and usage of ATL in detail. (20)
8. Write short notes on the following :
 - (a) Java Beans (6)
 - (b) OMG IDL to java mapping (10)
 - (c) Object orientation infrastructure. (4)

Reg. No. :

D 2231

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

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M.Sc. DEGREE EXAMINATION, MAY 2014.

Second Year

Information Technology

WEB SERVICES

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

1. What are web services? Why web services are important? Explain applications that consume web services in detail.
2. Discuss important aspects associated with SOAP and WSDL. Also explain how they can be used together to form the basis of web services – based applications.
3. Give an overview of UDDI concepts and VDDI specifications.
4. Explain the issues related with building real world enterprise applications using web serves.

5. Name the major platforms considered for developing web services and explain their significance and related issues in detail.
 6.
 - (a) What is Qos? Why is Qos important for web services? Explain the Qos-enabled web services.
 - (b) Describe the Qos metrics used to measure web services performance and explain the Qos- enabled applications.
 7. Explain about web services and applications with in the context of mobile and wireless environment.
 8. Write short notes on the following
 - (a) XML fundamentals.
 - (b) Portals and service management.
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