

B.Sc. (Sem.-IV) Examination

CC 204

Computer Science

May-2017

Time : 3 Hours]

[Max. Marks : 70

Q-1

A. Write a short note on Object Oriented Programming (OOP). (8)

OR

A. Explain Interfaces and Inheritance. (8)

B. Write a short note on Namespaces. (4)

OR

B. Write down Object Serialization. (4)

C. Do As Directed :- (2)

1. What is Class hierarchy design?

Q-2

A. Explain Exception Handling in brief. (7)

OR

A. What is an Error in programming? Explain in brief (7)

B. Overview on Exception Handling. (5)

OR

B. What is Exception Handling? Explain Structures. (5)

C. Explain: (2)

1. What is Error and Warning?

Q-3

A. What is the Programmer-Defined Exception Class? Explain each in detail. (8)

B. Write a short note on Error Statement. (4)

OR

B. Explain Multithreading in brief. (4)

(P.T.C)

E 397-2

C. Do As Directed :- (2)

1. What is Debugging?

Q-4

A. What is a Thread? Explain introduction. (6)

OR

A. Explain Life Cycle of a Thread. (6)

B. Write a short note on Thread synchronization. (6)

OR

B. Write a short note on Socket with figure. (6)

C. Do As Directed :- (2)

1. What is networking?

Q-5

A. What is a Building a Web Application? Explain (6)

OR

A. Write a short note on Session Tracking. (6)

B. Write Difference Between Data Binding & Data Grids. (6)

OR

B. Write a short note on ASP.NET Services. (6)

C. Give the full form of the following (2)

1 SOAP

2 What is Web Services?

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Q-1

A. Explain Data models and data independence. (8)

OR

A. What is DDL? Explain DML. (8)

B. Difference between Database Manager and Database Administrator. (4)

OR

B. What is Entities and Entity sets? (4)

C. Do As Directed :- (2)
1. What is database?

Q-2

A. What is Generation and Specialization? Explain Generation. (7)

OR

A. Explain Primary keys and Unique key. (7)

B. What is Relational Model? Explain in brief. (5)

OR

B. Difference between Network Model and Hierarchical Model. (5)

C. (2)
1. What is Aggregation?

(P.T.O)

E 406-2

Q-3

A. What is Normal forms? Need for Normalization. (8)

B. Short note : Data Dictionary (4)

OR

B. Explain Tables And Table spaces. (4)

C. Give the full form of the following :- (2)

1. What is SQL?

Q-4

A. Explain ACID rules. (6)

OR

A. What is Buffer? Explain Buffer Management. (6)

B. What is Deadlock? How to Handling a Deadlock? (6)

OR

B. What is Datatype? Explain any five data type. (6)

C. Do As Directed :- (2)

1. What is Lock Based Protocols?

Q-5

A. Difference between Timestamp-based Protocols and Validation based protocols. (6)

OR

A. What is Shadow Paging? Explain (6)

B. Incremental log with differed and immediate updates. (6)

OR

B. Explain Failure Classification. (6)

C. Do As Directed (2)

1. What is a Transactions?
