

Q.P. Code :02410

[Time: 3 Hours]

[Marks:80]

Please check whether you have got the right question paper.

- N.B:**
1. Question No.1 is compulsory
 2. Attempt any four questions out of the remaining Q.2 to Q.7

Q.1) Attempt any four

- a) Applet life cycle
- b) Implicit objects in JSP
- c) Packages in java
- d) Abstract class
- e) Namespace in XML

20

Q.2

- a) What is Interface? Explain with a suitable java program.
- b) Explain features of Java language in detail. Difference between c++ and JAVA

08

07

Q.3

- a) Explain static variables and Methods with a suitable example.
- b) What is EJB? Explain different types of EJB.

08

07

Q.4

- a) What is Multithreading? Explain thread life cycle with example.
- b) What is servlet? Explain steps to implement servlet with a suitable example.

08

07

Q.5

- a) Explain any two Layout Managers in Java. Give an example of any one.
- b) What is Exception? Explain steps to create and handle user defined exception with example.

08

07

Q.6

- a) Explain Java program steps in order to get connectivity to database with examples.
- b) Explain difference between include Directive and include Action with a suitable Example.

08

07

Q.7

- a) What is JSP? Explain the types of elements in JSP with examples.
- b) What is struts? Explain struts Architecture in detail.

08

07

MCA / Sem. IV (CBSSAs) / Advance Database Theory & Application / Nov-2017

Q.P. Code :02851

[Time:3 Hours]

[Marks:80]

Please check whether you have got the right question paper.

- N.B:**
1. Question No.1 is compulsory.
 2. Attempt any Four questions from the remaining Six questions.

Q.1 a) Briefly compare ANY TWO following concepts.

10

- a) DW and Data mart
- b) Semi Joins and Bloom Joins
- c) OODBMS and ORDBMS

b) Write Short Notes on ANY TWO.

10

- a) Web Mining
- b) Neural networks
- c) Spatial and Geographic DB

Q.2 a) Explain concurrency control and recovery process in Distributed Database Management System.

08

b) Explain bitmap index with example. When does it make sense to use bitmap index?

07

Q.3 a) What is Data Warehouse? Why it is needed? Explain ETL process in data warehousing.

08

b) What are frequent itemsets? Describe an algorithm for finding frequent itemsets.

08

Q.4 a) Define Clustering in data mining. Explain K-Mean clustering with suitable example.

08

b) Explain ORDBMS Implementation challenges in detail.

07

Q.5 a) Define OLAP. Explain MOLAP and ROLAP system with suitable diagram.

08

b) Explain features of XML. Differentiate between XML and HTML.

07

Q.6 a) Find out the association rules with support 50% and confidence 70% from the following sample data.

08

Transactions	Items
T1	Bread, Jelly, Milk
T2	Butter, Jelly, Juice
T3	Bread, Butter, Jelly, Juice
T4	Butter, Juice

b) Define the term fragmentation and replication in terms of where data is stored and also how the objects are uniquely identified in distributed database.

07

Q.7 a) What are different complex data types available in ORDBMS? Explain with example.

08

b) Explain Star schema, snowflake and fact constellation with suitable example.

07

(3 Hours)

Total Marks: 80

N.B.:

(1) Question No. 1 is compulsory.

(2) Attempt **any four** out of remaining six questions.

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|-----|--|---|----|
| Q.1 | (a) | What is attitude? Explain ABC model of attitude | 10 |
| | (b) | What the SMART goals? Explain with suitable examples | 10 |
| Q.2 | (a) | Write an application with CV to apply for the post of senior software engineer in Infosystems Ltd. | 8 |
| | (b) | Explain grapevine communication and its importance in an organization? | 7 |
| Q.3 | (a) | What is the meaning of personality? What are the determinants of personality? | 8 |
| | (b) | What is stress? How steps can be taken to manage it? | 7 |
| Q.4 | (a) | What are the different styles of leadership? Which style according to you is most effective? | 8 |
| | (b) | Write a notice along with agenda for a meeting of the Student's Council, to plan Cultural day of your college | 7 |
| Q.5 | (a) | Explain Big Five model of personality. | 8 |
| | (b) | What is meant by Emotional Intelligence? How important it is in the Industry? | 7 |
| Q.6 | (a) | What are barriers to communication? What steps can an organization take to overcome these barriers? | 8 |
| | (b) | Explain the five stage model of group development? | 7 |
| Q.7 | Write Short Note (Any three): | | 15 |
| | (a) | Positive Thinking | |
| | (b) | Assertiveness | |
| | (c) | Group discussion skills | |
| | (d) | Job Characteristics Model(JCM) | |

- N.B.** (1) Question No. 1 is **compulsory**.
 (2) Attempt any **four** from the remaining **six** questions.
 (3) Illustrate answers with neat sketches wherever required.
 (4) Answers to questions should be **grouped** and written **together**.

- Q.1 (a) What is E-Business? Explain the impact of E-Business on Society. 10
 (b) What is MIS? Explain various factors for success and failure of MIS. 10
- Q.2 (a) Explain various E-Business models in detail. 08
 (b) What is an Enterprise Application? Discuss Enterprise Application Architecture in detail. 07
- Q.3 (a) Explain various factors affecting E-Business success in detail. 08
 (b) What is an Information System? Explain Contemporary approaches to Information System. 07
- Q.4 (a) What is an EDI? Explain technical aspects and business implications of EDI in detail. 08
 (b) Explain how Information System impacts Organizations and Business Firms. 07
- Q.5 (a) What is Electronic Market? List and explain some functional Electronic Markets in detail. 08
 (b) Explain the current situation of E-Business.
 What needs to be done in order to cater for the future of E-Business? 07
- Q.6 (a) What is an Entrepreneur? Explain Entrepreneur Process Model in detail. 08
 (b) Explain Generic Trade Cycle in detail. 07
- Q.7 Write short notes on any three 15
 (a) Leavitt's Model
 (b) E-Business Value Chain Network
 (c) CRM
 (d) Perspectives of Information Systems.

(3 Hours)

N.B.: (1) Question No. 1 is compulsory.

(2) Attempt any **four** questions from the remaining **Six**

(3) Figures on the right indicates full marks

1. (A) Compare in detail Graphical System and Command line interface. (10)
(B) Explain different human considerations in screen design. (10)
2. (A) Explain the concept of Direct and Indirect Manipulation. (8)
(B) Write about the different interface design goals. (7)
3. (A) Explain different types of Windows. (8)
(B) Explain various operable controls. (7)
4. (A) Discuss colour along with its uses and problems on a system. (8)
(B) Explain System Training and Documentation. (7)
5. (A) Explain the five commandments of designing. (8)
(B) Explain different kinds of Menus and its structure (7)
6. (A) What is Window management? How it is managed in web systems? (8)
(B) Write a note on Device based Controls. (7)
7. (A) Discuss Internationalization and Localization. (8)
(B) Explain different characteristics of a window. (7)
