

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)

B.C.A. Sem-VI :SUMMER : 2023

SUBJECT : DATA WAREHOUSING & DATA MINING

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 3/5/2023

S-18798-2023

Max. Marks : 60

N.B.:

- 1) Question **no. 4** is **COMPULSORY**.
 - 2) Attempt **ANY TWO** questions from **Q. no.1 to Q. no. 3** in **Section – I**.
 - 3) Attempt **ANY TWO** questions from **Q. no.5 to Q. no. 7** in **Section – II**.
 - 4) Figures to the right indicate **FULL** marks.
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SECTION – I

- Q.1** In real world data tuples with missing values for some attributes are a common occurrence. Describe various methods for handling this problem in Agriculture domain. **(12)**
- Q.2** Define Data Mart. State the reasons for building Data Mart. Explain various approach for building Data Mart. **(12)**
- Q.3** What is Data Mining? Explain KDD Process (Knowledge discovery in database) in detail. **(12)**
- Q.4** Write short notes on **ANY THREE** of the following: **(12)**
- a) Compare OLTP v/s OLAP
 - b) Cluster Analysis
 - c) Roll-up and Drill-down Operations
 - d) Data Cleaning
 - e) Decision Tree Induction

SECTION – II

- Q.5** Explain Apriori Algorithms in detail. **(12)**
- Q.6** Explain various Data Reduction techniques in detail. **(12)**
- Q.7** What is classification and Prediction? Explain Classification by using decision Tree method. **(12)**

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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-VI :SUMMER : 2023
SUBJECT : WEB PROGRAMMING

Day : Saturday

Time : 10:00 AM-01:00 PM

Date : 6/5/2023

S-18799-2023

Max. Marks : 60

N.B.

- 1) Attempt any **THREE** questions from Section – **I** and any **TWO** questions from Section – **II**. **Q. No. 4** is **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Answers to both sections should be written in **SAME** answer book.
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SECTION – I

- Q.1 a)** What do you mean by Building blocks in PHP? Explain the types of tags in PHP. (06)
- b)** What is parameterized function? Explain with example. (06)
- Q.2 a)** Describe various built in function in PHP for sorting an array. (06)
- b)** Explain Date function in PHP in details. (06)
- Q.3 a)** What is cookies in PHP? How cookies are set and delete in PHP. (06)
- b)** What is table in MySQL? Write the process to create a table in MySQL? (06)
- Q.4** Write short notes on any **TWO** of the following: (12)
- a)** Do – While loop
 - b)** Logical operators in PHP
 - c)** DML commands in PHP

SECTION - II

- Q.5** Write PHP code to design a feedback form. (12)
- Q.6** Write PHP code to reverse a string using user defined function. (12)
- Q.7** Write PHP code to check whether the given number is prime or not. (12)

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Day : Friday

Time : 10:00 AM-01:00 PM

Date : 12/5/2023

S-18801-2023

Max. Marks : 60

N.B.

- 1) Attempt any **FOUR** questions from Section I and attempt any **TWO** questions from Section II.
- 2) Both the Sections should be written in the **SAME** answer book.
- 3) Figures to the right indicate full marks

SECTION- I

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|------------|---|-------------|
| Q.1 | Write various applications of Business Analytics | (10) |
| Q.2 | Explain importance of data quality | (10) |
| Q.3 | Explain steps in Data Mining process | (10) |
| Q.4 | Write different methods used to visualize data | (10) |
| Q.5 | Discuss different techniques used for cleaning data | (10) |
| Q.6 | Write Short Notes (Any Two) | (10) |
| | a) Geographical Information System | |
| | b) Sources of business data | |
| | c) Text Mining | |

SECTION- II

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|------------|---|-------------|
| Q.7 | Explain OLAP and its role in business analytics | (10) |
| Q.8 | Discuss how business analytics helps in fraud detection | (10) |
| Q.9 | How business analytics techniques can be applied for testing portfolio stress | (10) |

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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-VI :SUMMER : 2023
SUBJECT : INFORMATION SECURITY ADMINISTRATION

Day : Monday

Time : 10:00 AM-01:00 PM

Date : 15-05-2023

S-22705-2023

Max. Marks : 60

N.B.

- 1) **Q. 4 From SECTION – I is COMPULSORY.**
- 2) Answer any **TWO** questions from Q. 1, 2, 3 in **SECTION - I**
- 3) Answer any **TWO** questions from Q. 5, 6, 7 in **SECTION – II**
- 4) **All Questions carry equal marks.**
- 5) Answer to both sections should be written in **SAME** answer book.
- 6) Draw a labeled diagram wherever necessary.

SECTION – I

Q. 1 Answer the following : **(6 Marks x 2= 12 Marks)** **(12)**

- a) Describe types of client-side devices.
- b) What are the most important things you can do to secure desktop PC's?

Q. 2 Answer the following: **(6 Marks x 2= 12 Marks)** **(12)**

- a) What is a DHCP server and explain the uses of the DHCP Server.
- b) Define IP address and its types , how to assign an IP address to the connected devices in the network.

Q. 3 Answer the following: **(6 Marks x 2= 12 Marks)** **(12)**

- a) Describe working of Mail Server in detail.
- b) What is Web Hosting? Describe steps to host online shopping website.

Q. 4 Write a short note on **ANY THREE** of the following: **(4 Marks x 3= 12 Marks)** **(12)**

- a) WAN Devices.
- b) Proxy Server.
- c) NAT and PAT.
- d) Print Server.
- e) File Server.

SECTION - II

Q. 5 Answer the following: **(6 Marks x 2= 12 Marks)** **(12)**

- a) Explain WAN with its security measures.
- b) A customer wants to build his personal website , what steps should be followed by IT administer in terms of security , storage , performance.

Q. 6 Answer the following: **(6 Marks x 2= 12 Marks)** **(12)**

- a) How an organization can maintain and protect mobile devices security
- b) What is a USB Port and write down the uses of USB ports with an example.

Q. 7 Answer the following: **(6 Marks x 2= 12 Marks)** **(12)**

- a) What is BOOT Server and how to manage and secure a BOOT Server.
- b) Write a difference between static website and dynamic website with example.

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-VI :SUMMER : 2023
SUBJECT : HADOOP

Day : Monday

Time : 10:00 AM-01:00 PM

Date : 15-05-2023

S-22706-2023

Max. Marks : 60

N.B.

- 1) Q. No. 4 is **COMPULSORY**.
- 2) Attempt any **TWO** questions from Q. No. 1 to Q. No. 3 in Section – I.
- 3) Attempt any **TWO** questions from Q. No. 5 to Q. No. 7 in Section – II.
- 4) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** What is Big Data? Explain the various features and advantages of Big Data. (12)
- Q.2** Explain Apache Pig with its features. (12)
- Q.3** What is HADOOP? Also explain the advantages of HADOOP? (12)
- Q.4** Write short notes on any **THREE** of the following: (12)
- a) Multi – Node Cluster
 - b) HIVE
 - c) HBase
 - d) NameNode
 - e) Apache Pig Vs SQL

SECTION - II

- Q.5** What is MapReduce? Explain the Algorithm for MapReduce with suitable diagram. (12)
- Q.6** What is HDFS? Explain the HDFS Architecture in detail. (12)
- Q.7** Write the steps involved to Remove the DataNode from HADOOP clusters. (12)

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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)

B.C.A. Sem-VI :SUMMER : 2023

SUBJECT : KNOWLEDGE MANAGEMENT

Day : Monday

Time : 10:00 AM-01:00 PM

Date : 15-05-2023

S-22707-2023

Max. Marks : 60

N.B.

- 1) **Q. No. 4** from Section-I is **COMPULSORY**.
- 2) Attempt **ANY TWO** questions from Q.No. 1 to Q. No. 3 in Section – I.
- 3) Attempt **ANY TWO** questions from Q.No. 5 to Q. No. 7 in Section – II.
- 4) Figures to the **RIGHT** indicate **FULL** marks.
- 5) Answers to both the sections should be written in **SAME** answer book.

SECTION – I

- Q.1** What do you mean by Knowledge Management? Explain various types of Knowledge with example. (12)
- Q.2** With block diagram, discuss in detail various pillars of Knowledge Management. (12)
- Q.3** List and discuss different technology components of Knowledge Management. (12)
- Q.4** Write short notes on **ANY THREE** of the following : (12)
- a) Critical success factors in Knowledge Management
 - b) Corporate transformation
 - c) Total Quality Management and Knowledge Management
 - d) E-commerce and Knowledge Management

SECTION – II

- Q.5** Suman Hospitals is chain of hospitals working in Mumbai, Pune, Delhi, Kolkatta and Bangluru. The Head Quarter is at Delhi. Top management decided to adopt Knowledge Management System for the day to day working. With block diagram, discuss roles of each component. (12)
- Q.6** You work in HR department of a manufacturer of home appliances with Head Quarter in UK and operations in 50 countries. Suggest Knowledge Management System as IT solution with block diagram and discuss it. (12)
- Q.7** SARA IT solutions is using Knowledge Management system for Human Resource Management. Draw the block diagram and explain the working of Knowledge Management system. (12)
