

MAR23-2-2344

B. C. A. Semester-IV (New Course) Examination

MARCH-2023

BCA-404 Data Mining & Data Warehousing

Time : 2^{1/2} Hours

Total Marks : 70

06 Marks

Attempt the followings.

- Que. 1(a)
1. What is Data Warehouse ? List out its characteristics.
 2. Define Data Mart.
 3. List out three possible approach of Data Warehouse.

12 Marks

Attempt Any Two :

- Que. 1(b)
1. List and Explain all the characteristics of Data Warehouse.
 2. Explain Basic Principal of Data Warehouse Modelling.
 3. Write a short note on Temporal Modelling.

05 Marks

Attempt the following

- Que. 2(a)
1. Define : Data Cube
 2. Full form of ROLAP _____
 3. What is the use of OLAP ?
 4. What is Metadata ?
 5. What is Star Model ?

12 Marks

Attempt Any Two :

- Que. 2(b)
1. Give the difference between OLAP vs OLTP
 2. Give the difference between ROLAP vs MOLAP
 3. What is Metadata ? Explain Source of Metadata.

06 Marks

Attempt the following

- Que. 3(a)
1. Full form of KDD _____
 2. List out Application of Data Mining.
 3. Define the term : Classification

12 Marks

Attempt Any Two :

- Que. 3(b)
1. Explain KDD vs Data Mining
 2. Write a short note on Automatic Cluster Detection
 3. Give the difference between Discovery vs Verification Mode.

05 Marks

Attempt Any Two :

- Que. 4(a)
1. List out Trends in Mining.
 2. What is Web Structure Mining ?
 3. Full form of MOLAP _____
 4. Define Web Content Mining
 5. What is Spatial Mining ?

12 Marks

Attempt Any Two :

- Que. 4(b)
1. Write a short note on Web Content mining.
 2. Explain Data Generalization and Summarization in detail.
 3. Explain web structure and usage mining in detail.

MAR23-2-2343

B. C. A. Semester-IV (New Course) Examination

MARCH-2023

BCA-403 Electronic Commerce

Time : 2¹/₂ Hours

Total Marks : 70

Answer the followings.

06 Marks

Que. 1(a)

1. Define : B2G, G2C
2. Define : E-Commerce
3. Differentiate : Traditional Commerce vs E-Commerce

12 Marks

Que. 1(b)

Attempt the following (Any Two)

05 Marks

Que. 2(a)

Answer the following

1. Explain Future of E-Commerce.
2. Explain Advantages and Disadvantages of E-Commerce in detail.
3. Explain History and Development of E-Commerce in detail.

05 Marks

Que. 2(b)

Attempt the following (Any Two)

1. Explain various Models of E-commerce in detail.
2. Explain Driving Forces of E-Commerce in detail.
3. Explain Electronic Data Inter-change in detail.

06 Marks

Que. 3(a)

Answer the following

1. Define : E-Cash
2. Define : EFT
3. Define : E-Wallet

12 Marks

Que. 3(b)

Attempt the following (Any Two)

1. Explain Credit Card and Debit Card in detail.
2. Explain Payment Gateway in detail.
3. Explain different kinds of Cybercrime in detail.

05 Marks

Que. 4(a)

Answer the following

1. Define : LAN, WAN
2. Define : Intranet and Extranet

12 Marks

Que. 4(b)

Attempt the following (Any Two)

1. Explain Virtual Private Network in detail
2. What is M-Commerce ? Explain Advantage and Limitations of it.
3. Explain Ethical issues in E-Commerce.

MAR23-2-2342

B. C. A. Semester-IV (New Course) Examination

MARCH-2023

BCA-402 Building Application using PHP

Total Marks : 70

Time : 2 $\frac{1}{2}$ Hours

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| Que. 1(a) | Answer the followings. | 06 Marks |
| 1. | Define : <code>\$_FILES</code> | |
| 2. | Write any two predefined variable handling functions with syntax and example. | |
| 3. | Explain the foreach Loop with syntax and example. | |
| Que. 1(b) | Answer the following (Any Two) | 12 Marks |
| 1. | Differentiate : GET vs Post. Explain <code>\$_POST</code> . | |
| 2. | Define : Array. Explain any five Array functions with syntax and example. | |
| 3. | Differentiate : Client side scripting languages and Server side scripting languages | |
| Que. 2(a) | Attempt the following | 05 Marks |
| 1. | Explain defining a class and object in php with example. | |
| 2. | How to read a file ? Explain it with file handling functions. | |
| Que. 2(b) | Answer the following (Any Two) | 12 Marks |
| 1. | Explain error handling try..Catch..block with example. | |
| 2. | Explain <code>\$_cookie</code> and <code>\$_session</code> with example. | |
| 3. | Explain php oop Inheritance with example. | |
| Que. 3(a) | Attempt the following | 06 Marks |
| 1. | Define : Web Service. Write full form of SOAP, UDDI, WSDL | |
| 2. | Explain sending an email in php. | |
| 3. | Which function counts return records in php from mysql ? Explain it with syntax and example. | |
| Que. 3(b) | Answer the following (Any Two) | 12 Marks |
| 1. | Explain Web Service Model. | |
| 2. | Explain searching and retrieving records from database ? Explain with example. | |
| 3. | Explain PHP <code>mysql_query()</code> and <code>mysql_fetch_array()</code> with example. | |
| Que. 4(a) | Attempt the following | 05 Marks |
| 1. | What is Joomla ? Explain advantages and Real World Examples of Joomla. | |
| 2. | What is Template manager ? Explain in brief. | |
| Que. 4(b) | Answer the following (Any Two) | 12 Marks |
| 1. | Explain Joomla Architecture. | |
| 2. | Write steps to create Menu in Joomla. | |
| 3. | How to create and add a new article ? Write steps. | |

MAR23-2-2341

**B. C. A. Semester-IV (New Course) Examination
MARCH-2023**

BCA-401 Object Oriented Programming using C++

Total Marks : 70

Time : 2 $\frac{1}{2}$ Hours

Que. 1(a)	Explain the following terms.	06 Marks
	1. Class 2. Object 3. Encapsulation	
Que. 1(b)	Answer the following (Any Two)	12 Marks
	1. Explain Enumerated data type in detail with example. 2. What is reference variable ? Explain it with syntax and example. 3. Explain Memory management operator with example.	
Que. 2(a)	Answer the following	05 Marks
	1. Explain Inline Function. 2. Write short notes on Destructor.	
Que. 2(b)	Answer the following (Any Two)	12 Marks
	1. Explain Function overloading with example. 2. What is constructor ? Explain Parameterized constructor with example. 3. Explain static data member and static member function with example.	
Que. 3(a)	Answer the following	06 Marks
	1. What is operator overloading ? Give the Syntax 2. List the operators which are not overloaded. 3. Define : Unary Operator, Binary Operator	
Que. 3(b)	Answer the following (Any Two)	12 Marks
	1. Write a program for implementation of binary plus ('+') operator using member function. 2. Explain with example how unary operator can be overloaded using friend function. 3. Explain class to class type conversion with example.	
Que. 4(a)	Answer the following	05 Marks
	1. Explain this pointer. 2. List types of Inheritance.	
Que. 4(b)	Answer the following (Any Two)	12 Marks
	1. Explain virtual base class with example. 2. Explain Virtual function. Write a program for implementation of virtual function. 3. Explain Multiple inheritance with example.	