

Paper ID : 70100

Total Pages : 2

BCA (Semester-V) Examination, 2022

(Session 2019-22)

**RELATIONAL DATABASE
MANAGEMENT SYSTEM**

[Paper Code : BC-501]

Time : Three Hours]

[Maximum Marks : 80

Note : Candidates are required to give their answers in their own words as far as practicable. The questions are of equal value. Answer any five questions.

- 1, What is Database? Explain Oracle and its tools.
2. Explain database types of oracle and also explain each data type length.
3. (a) Define Primary key. How primary key creation is implemented with table? Explain with example.
(b) Explain with example :
 - (i) Need of Join operation
 - (ii) Oracle data conversion function

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4. (a) Explain Index creation implementation in oracle database.
- (b) How can the automatic data generation be applied in database fields ? Give syntax.
- 5, Explain the concept of View. Explain creating and destroying a View using suitable example.
- 6, Explain SQL security management tools.
- 7, (a) How exception block of PL/SQL works? Explain using example.
- (b) What are Triggers? How are triggers executed on events? Explain with example.
8. (a) What are conditional statements used in PL/SQL programming? Explain each with example code.
- (b) What is the difference between a stored procedure and function?
- 9, Explain exceptional handling with suitable example.
10. (a) What is pre-defined exception and how is it used in an exception handler ?
- (b) Write a trigger which enters the primary key field by default when insertion performed.

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(Session 2019-22)

**ARTIFICIAL INTELLIGENCE
THROUGH PYTHON
PROGRAMMING**

[Paper Code : BC-502]

Time : Three Hours]

[Maximum Marks : 80

Note : Candidates are required to give their answers in their own words as far as practicable. The questions are of equal value. Answer any five questions.

1. Summarize various operators, built-in functions and standard library modules that deal with Python's numeric type.

2. (a) Define various types of looping statements in Python.

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(b) Write a program for pyramid of digits as given below :

```
    1
  1 2 1
1 2 3 2 1
  1 2 1
    1
```

3. What is lambda function ? What are the characteristics of a lambda function ? Give an example.

A. Explain the following built-in functions and method with clear syntax, description and illustration :

- | | | |
|-------------|------------|------------|
| (i) open | (ii) file | (iii) seek |
| (iv) tell() | (v) read() | |

5. Examine how python supports regular expressions through the 're' module with brief introduction and various built-in methods related to it.

6. State the various application of Python.

7. Explain the basic functionality of match() function.

8. Python is pure oop's language contrasting with C++ and Java. Justify your answer.

9. (a) Which Python objects are immutable? Explain with example.
- (b) Which Python types are sequences and how do they differ from mapping.
10. Discuss various applications of Artificial Intelligence.

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Paper ID : 70102

Total Pages : 2

BCA (Semester-V) Examination, 2022

(Session 2019-22)

WEB TECHNOLOGY

(HTML, JAVASCRIPT, CSS)

[Paper Code : BC-503]

Time : Three Hours]

[Maximum Marks : 80

Note : Candidates are required to give their answers in their own words as far as practicable. The questions are of equal value. Answer any five questions.

1. What is Web Browser? Explain different types of web browsers.
2. What is HTML ? Explain the structure of HTML document.
3. What is Form? Distinguish between Post method and Get method. Create a web page to display different buttons like radio button, check box, combo box.

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4. What is JavaScript ? Discuss the advantages of JavaScript. Also explain the limitations of JavaScript.
5. Explain operators in JavaScript. Write a JavaScript to find maximum of three given numbers.
6. What is For loop in JavaScript ? Write a program to find the factorial of a given integer.
7. What are user-defined functions ? Write a JavaScript to find square and cube of a number using functions.
8. Discuss the event handling in JavaScript. Write a JavaScript to demonstrate the concept of event handling.
9. Explain various CSS colors formats. Discuss the all possible lists of color formats used. in CSS.
10. Write notes on any two of the following :
 - (a) Hyperlinks
 - (b) Web Servers
 - (c) WWW (World Wide Web)
 - (d) Arrays in JavaScript

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Paper ID : 70103

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BCA (Semester-V) Examination, 2022

(Session 2019-22)

**COMPUTER NETWORK, SECURITY
AND CYBER LAW**

[Paper Code : BC-504]

Time : Three Hours]

[Maximum Marks : 80

Note : Candidates are required to give their answers in their own words as far as practicable. The questions are of equal value. Answer any five questions.

1. What do you mean by IP address ? Explain IP addressing method.
2. Explain about multiple access protocol in detail.
3. Explain network management. Explain five areas of network management in detail.
4. What is Transmission Media? Describe in detail about guided and unguided transmission media.

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5. Define Multiplexing. Explain various types of multiplexing in detail.
6. What is need of Security Technology ? Discuss various types of firewall security technologies.
7. What is the security architecture of information system? Explain the secure system design of information system.
- ~~8.~~ What is Cyber Security ? How to secure the cyber using security risk analysis?
9. Explain about OSI security architecture tools and techniques in detail.
- ~~10.~~ Explain OSI reference model in detail.

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