BCA(V) — Rel. Data. Mgt. Sys. (BC - 501)

2023

(Session: 2020-23)

(Paper ID: 15014)

Time: 3 hours

Full Marks: 80

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 local variable in PL / SQL, and how is it declared inside a procedure or function?
- 2. How do you create a procedure in PL/SQL and what is its syntax?
- 3. When do "BEFORE" and "AFTER" triggers get executed, and what is their difference?

- 4. What are Privileges ? Explain different object privileges available in SQL.
- 5. Explain ten (10) different predefined functions of SQL.
- 6. What is an RDBMS (Relational Database Management System)? Explain the key components of an RDBMS.
- 7. Discuss the control structures in PL / SQL (IF-THEN, FOR LOOP, WHILE LOOP, etc.).
- What is Locking? Explain levels of locks in SQL with example.
- Define Sections or Blocks of PL / SQL programming.
- 10. How is PL/SQL different from SQL?

(2)

BCA(V) — Art. Int. Through Pyth. Prog. (BC – 502)

2023

(Session: 2020-23)

(Paper ID: 15015)

Time: 3 hours

Full Marks: 80

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 Operator in Python? Explain each type of operator with suitable example.
- What is Typecasting? How do we perform typecasting in Python? Explain each function used in typecasting with syntax and program.

VA - 15/1

(Turn over)

- What are conditional statements in Python? Explain each of them with proper syntax. Write a program to display the result of a student if marks enter by the user.
- Differentiate between List and Tuple. Explain /(a) with an example.
  - Explain break and continue statement with suitable example.
- What is Slicing in Python? Write a program to demonstrate the concept of iterator's slicing.
- Explain function in Python? Write a program to generate Fibonacci series of n numbers.
- What is Eval function in Python? Write advantages of using eval function. Write a program to evaluate a mathematic expression entered by user using eval function.
- What is Package Manager in Python? Write 8. steps to install any external package. And write a simple program to use external package.

Contd.

- 9 What are Exceptions ? Explain all statements used in exception handling with proper syntax and example. Write a program to handle exception while typecasting in case of invalid input provided by the user.
- 10. Write short notes on the following:
  - (a) Regex
  - (b) Decorators
  - (c) Dynamically typed language
  - (d) Garbage collector



## 2023

(Session: 2020-23)

(Paper ID: 15016)

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

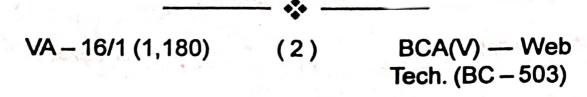
Answer any five questions.

- What is Internet ? Explain its advantages, disadvantages and application.
- What is the role of Web Server? Explain about Apache and IIS web servers.
- What is a Frame? Explain < frame > and
  frameset > tags with its attributes and.
  examples.
- Explain the basic table tags with the different attributes with suitable example.

VA - 16/1

(Turn over)

- 5. Create a document with two links to an external document. The first link should lead to the beginning of the external document. The second link should lead to a particular section in the external document.
- 6. What is Cascading Style Sheet (CSS)? Explain any seven types of selector in CSS.
- 7. What is User defined function? Explain it with suitable example.
- 8. Explain paragraph, heading, list and image tags with example.
- 9. What are Events? Explain different categories of events in JavaScript.
- 10. Write short notes on any four of the following:
  - (a) Table Tag
  - (b) Home Page
  - (c) Anchor Tag
  - (d) MIME
  - (e) DOM



BCA(V) — Comp. Net. Secu. & Cyb. Law (BC - 504)

## 2023

(Session: 2020-23)

(Paper ID: 15017)

Time: 3 hours

Full Marks: 80

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.

- What is Computer Network? Explain with suitable diagram. Write down the advantages and disadvantages of network.
- 2. How many layers are in TCP / IP refereance model? Describe them.
- 3. What is Cellular Network? How is it different from Wireless Network?

(Tum over)

- 4. What is Optical Fiber? What are the advantage and disadvantage of optical fiber?
- What is bridge in computer network? Explain with types.
- 6. What do you mean by IP address? Explain. Differentiate Classful and Classless IP addressing.
- 7. Explain the RSA Algorithm.
- 8. What is Firewall? Explain the design and goals of firewall.
- Explain the e-mail security in detail.
- 10. What is Cyber Crime? Explain different causes of cyber crime.

