

Question Paper Code : 6579

BCA (Semester-V) Examination, 2021

OPEN SOURCE SOFTWARE

[Paper : BCA-5053]

Time : Three Hours]

[Maximum Marks : 70

Note : Attempt **any five** questions of the following. Each question is carrying **equal** marks.

1. What do you mean by open-source software ? Explain with the help of suitable examples and also illustrate the need of open-source software in detail. [14]
2. Explain the following in detail
 - (a) Advantages of open-source software. [7]
 - (b) Applications of open-source software. [7]
3. Explain the following questions in detail.
 - (a) What are different Linux distribution ? Explain each in detail. [7]
 - (b) What are the different types of shells in Linux ? Explain. [7]

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(1)

[P.T.O.]

4. Explain LINUX kernel in detail. Also differentiate between kernel mode and user mode with suitable diagram and example. [14]

5. Explain the terms process, scheduling, cloning and signals and personalities in Linux in detail with suitable example. [14]

6. Explain various MySQL Data Types with proper syntax. What are the differences between CHAR and VARCHAR Types in MySQL ? Explain with suitable example. [14]

7. Explain about the features of php in detail. Also explain each data types supported by php with suitable example and code. What is the role of functions and arrays in php ? How to create functions and arrays in php ? Explain with suitable code segments and example. [14]

8. What do you mean by object-oriented programming ? Explain its attributes in detail. Demonstrate various string manipulation methods supported by any object-oriented language using suitable syntax and example. [14]

9. Explain about Perl language in detail. Explain various data types and variables used in Perl language with suitable code segment. [14]

10. Explain **any two** terms of the following with respect to Perl language. [7x2=14]

(a) subroutines

(b) packages

(c) files and data manipulation

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