

2020(June)

Full Marks : 100

Pass Marks : 40

Subject : Operating System (4BCA1)

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

The questions are of equal value.

Answer any three questions.

1. What is an Operating System ? What is the need for an operating system ? Discuss the major functions of an operating system with examples.
2. What is deadlock ? List necessary conditions for deadlock.
Explain different methods to handle deadlock.
3. What do you understand by mutual exclusion? what are the different techniques of mutual exclusion?
4. What is scheduling ? What are scheduling algorithms ? Explain each algorithm with their merit and demerit.
5. Distinguish between the following.
 - (a) Multiprogramming and Time sharing OS.
 - (b) Internal and External fragmentation.
 - (c) Internal and external DOS commands.

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Subject : Internal & E-Commerce (4BCA3)

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

The questions are of equal value.

Answer any three questions.

1. What is Internet? Write down the advantages and disadvantages of Internet. What is Intranet ? Comparison between Intranet and Groupware.
2. Explain the scope of B2C E-commerce over the Mobile Phone.
3. Discuss the scope of Internet and Web technologies in E-commerce.
4.
 - i. What is E-marketing? Explain the step of on-line marketing process.
 - ii. Write short notes on the following.
 - (a) Digital Signature.
 - (b) EDI
 - (c) Search Engines
5. What is E-mail? What are advantages of E-mail? Explain about POP based and web based E-mail.

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Subject : Linux Operating Systems (4BCA4)

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Answer any three questions.

1. What is Linux ? Explain different file systems supported by linux.
2. What is Kernel and Shell ? Differentiate between types of shells available in linux.
3. Explain the following commands with syntax, options and examples :
 - (a) Head
 - (b) More
 - (c) Grep
 - (d) Awk
 - (e) Find
4. Differentiate between shell variable, environment variable and user defined variable. Explain I/O Redirection Operator.
5. What do you mean by background and foreground process in Linux? What are the advantages and disadvantages of background process?

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Subject : OOPS Programming in C++ (4BCA2)

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

The questions are of equal value.

Answer any three questions.

1. Explain the concept of inheritance. Discuss different types of inheritance with suitable examples. When and why one can not create an object of a class.
2. Define constructor and Destructor in detail. Discuss the constructor in multilevel inheritance. Also discuss the copy constructor.
3. Define the following term with examples.
 - (a) Friend Function
 - (b) Polymorphism
 - (c) Late binding Vs Early binding
 - (d) Inline function.
4. What is default parameter? What are the importance of default parameter. Explain with an example.
5. Define class and function Templates with the help of program.

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Subject : System Analysis & Data Processing (4BCA5)

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

The questions are of equal value.

Answer any three questions.

1. Define S/w design in detail. What are the differences between Logical and physical design.
2. What is user interface. Discuss the elements of good interface design.
3. Write short notes on.
 - (a) Prototype Model
 - (b) Fact finding technique
 - (c) Waterfall Model
 - (d) DFD
4. Define S/w inspection procedure. What are the required skills for system Analyst? Define checklist.
5. Define SRS also describe the characteristics of good SRS.