

BACHELOR OF COMPUTER APPLICATION (BCA)

(Revised Syllabus)

BCA(Revised Syllabus)/ASSIGN/SEMESTER-VI

ASSIGNMENTS

(July - 2018 & January - 2019)

(BCS-062,

MCS-022,

BCSL-063)



**SCHOOL OF COMPUTER AND INFORMATION SCIENCES
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068**

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Important Notes

1. Submit your assignments to the Coordinator of your Study Centre on or before the due date.
2. Assignment submission before due dates is compulsory to become eligible for appearing in corresponding Term End Examinations. For further details, please refer to BCA Programme Guide.
3. To become eligible for appearing the Term End Practical Examination for the lab courses, it is essential to fulfill the minimum attendance requirements as well as submission of assignments (on or before the due date). For further details, please refer to the BCA Programme Guide.

Course Code : **BCS-062**
Course Title : **E-Commerce**
Assignment Number : **BCA(6)-062/Assignment/2018-19**
Maximum Marks : **100**
Weightage : **25%**
Last Date of Submission : **15th October, 2018 (For July, 2018 Session)**
15th April, 2019 (For January, 2019 Session)

This assignment has two questions for a total of 80 marks. Answer both the questions. Rest 20 marks are for viva voce.

Question 1: What are Wallet based payment systems. Give some examples. How do they differ from other online payment systems. (40 marks)

Question 2: Give examples of some exclusive M-Commerce portals. How does security issues with M-Commerce portals differ from those associated with E-Commerce portals. (40 marks)

Course Code	:	MCS-022
Course Title	:	Operating System Concepts and Networking Management
Assignment Number	:	BCA (6)-022/Assignment/2018-19
Maximum Marks	:	100
Weightage	:	25%
Last Date of Submission	:	15th October, 2018 (For July, 2018 Session) 15th April, 2019 (For January, 2019 Session)

This assignment has eight questions of 10 marks each. Answer all questions. Rest 20 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation. Answer of each part of the question should be confined to about 300 words.

Question 1: (a) Write the purpose of VPN and name the VPN technologies supported by Windows 2000. (5 Marks)

(b) List the main contents of Password files and where are they located in Windows? Also, explain the concept of Shadow passwords? (5 Marks)

Question 2: (a) Compare the role and responsibilities of user mode and kernel mode of Windows 2000 system. (5 Marks)

(b) List the important components of domain name server. Also, explain how the domain name server is configured in LINUX operating system. (5 Marks)

Question 3: Discuss the Users' Administration in WINDOWS 2000. What are the different types of user groups supported by Windows 2000? Discuss the scope and limitations of each group. Also, list the tools available in Windows2000 for user management. (10 Marks)

Question 4: (a) Discuss the tasks performed by LinuxConf package. (5 Marks)

(b) Explain the advantages and disadvantages of different LAN topologies. (5 Marks)

Question 5: (a) Explain the role and importance of following tools for quota management in Linux:

- quotacheck
- repquota
- quota

(6 Marks)

(b) Compare the security features/mechanism of Windows2000 and Linux operating systems. (4 Marks)

Question 6: (a) Why is the audit view limited to specific users only in windows 2000? (5 Marks)

(b) Explain the purpose and features of registry management. Also, explain the uses of it. (5 Marks)

Question 7: Write a shell script that searches the file contents in a directory and its sub-directories for a text string given by the user. It list all such file names having that given string and store in a temp file “example_dir” (10 Marks)

Question 8: (a) What is backup? What are the strategies followed in Linux for backup? (5 Marks)

(b) What encryption function is used by Windows 2000 operating system? (5 Marks)

Course Code	:	BCSL-063
Course Title	:	Operating System Networking Management Lab
Assignment Number	:	BCA(6)-063/Assignment/2018-19
Maximum Marks	:	50
Weightage	:	25%
Last date of Submission	:	15th October, 2018 (For July, 2018 Session) 15th April, 2019 (For January, 2019 Session)

Note: This assignment has two questions. Answer all the questions. These questions carry 40 marks. Rest 10 marks are for viva voce.

Question 1:

- (a) Configure IPsec policy on local computer. Also enable and configure IPsec policy for an entire domain in Windows Server. (10 Marks)
- (b) Write the commands on Linux/Unix to perform the following networking tasks:
- (i) change the value of MTU
 - (ii) shows number of hops taken to reach destination
 - (iii) display routing table information
 - (iv) shows and manipulate IP routing table
- (10 Marks)

Question 2:

- (a) Write steps to configure DHCP on Windows server. (5 Marks)
- (b) Write a shell script which will help network administrator to analyze the disk usage. It will highlight the disk if its utilization is more than 90%. (Make suitable assumptions, if any) (15 Marks)