STUDENT ASSIGNMENTS (SESSION 2021-22)

INSTRUCTIONS

The students are required to read carefully and follow the instructions given below:

- Submission of one complete Assignment in each course of the programme every year is compulsory.
- Completed Assignments on prescribed Assignment booklets are to be submitted by hand or through post to the Study Centre/Programme Coordinator, CDOL as per dates mentioned in the Academic Calendar 2021-22 (http://jmi.ac.in/bulletinboard/academic-calendar/cdol).
- For Assignments Submitted after dates mentioned in the Academic Calendar, a late fee of Rs. 100/- per Assignment will be payable to CDOL through Demand Draft in favour of Jamia Millia Islamia, Payable at New Delhi.
- For Ex-Students who failed to submit Assignments during the course of the programme are required to submit **Rs. 200**/- per Assignment to CDOL in the form of Demand Draft in favour of Jamia Millia Islamia, Payable at New Delhi.
- Write your name, roll number and other details as required on the cover page of **Assignment Booklet.**
- For your record you may keep a photocopy of your Assignment.
- Contact your Study Centre/ Programme Coordinator to collect evaluated Assignments.
- Please go through your Programme Guide carefully.

Certificate in Hardware and Network Technology (CHNT)

Course Name: Operating System Course Code: CCH –101

Session: 2021-22 Max. Marks: 30

Note: Attempt any three Questions. All questions carry equal marks.

- 1 What is Operating System? Explain different types of Operating System with advantages and Disadvantages.
- 2 Explain the concept of Dead Lock and Describe methods of Deadlock handling.
- 3 Explain Banker's Algorithm with a proper example.
- 4 Explain the concept of Paging and Segmentation and how does these techniques solve the problem of internal and external fragmentatiob?
- 5 Explain File Access Methods and File Allocation Methods in detail.

Course Name: Fundamentals of Computer & Network Course Code: CCH -102

Session: 2021-22 Max. Marks: 30

Note: Attempt any three Questions. All questions carry equal marks.

- 1 Discuss different types of System board with their features.
- 2 Classify the memories on the basis of type of material used and write in details about each of them.
- 3 What is MSDOS? Explain the difference between internal and external commands with the help of any five external and five internal DOS commands with syntax.
- 4 What are the different types of Printers and their working principles?
- 5 Describe different networking devices in detail.

Course Name: Computer Network Course Code: CCH –103

Session: 2021-22 Max. Marks: 30

Note: Attempt any three Questions. All questions carry equal marks.

- 1 Discuss OSI-ISO model and TCP/IP protocol suite in detail.
- 2 Explain the various access control protocols: TDMA, FDMA, and CDMA
- 3 What is IP address? Differentiate between IPV4 and IPV6 schemes of IP addressing
- 4 With reference to the given IPV4 address: 200.115.23.86 answer the following questions: i. Class of the IP address.
 - ii. Directed broadcast address
 - iii. Limited broadcast address.
 - iv. Total number of IP address in each Network.
 - v. Total number of hosts that can be configured in each network.
- 5 Explain in detail the following application layer protocols: DNS, HTTP, and DHCP

Course Name: Network Operating System Course Code: CCH –

104 Session: 2021-22 Max. Marks: 30

Note: Attempt any three Questions. All questions carry equal marks.

- 1 What is a network operating system? Define the features of Linux/Windows server family.
- 2 How to install and configure a Linux/Windows server? Explain all steps briefly.
- 3 What is shell scripting? Mention some importance of using shell scripts.
- 4 Write a Linux Shell script to multiply the numbers.
- 5 What is Huffman Coding? Define the algorithm with the help of a suitable example.

Session: 2021-22 Max. Marks: 30

Note: Attempt any three Questions. All questions carry equal marks.

1 Define Troubleshooting. What are the different categories of faults? Explain.

- 2 What do you mean by computer viruses? What are the different categories of computer viruses? Explain each of them.
- 3 What do you mean by the term hardware profile? Describe the steps to create, enable or disable and rename hardware profile.
- 4 Define maintenance. Write note on (a) Preventive maintenance (b) Corrective maintenance
- 5 What do you mean by Database management system (DBMS). Write atleast 10 applications of DBMS in different field of computer system in 21st century.

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