

**IMBA CSM (NEP) Sem.-1 Examination****DSC-C-ICSM-111T****Fundamentals of ICT****February-2025****[Max. Marks : 50****Time : 2-00 Hours]****Question 1 Answer the following questions:**

- i. What is Kernel? Explain its importance. 5Marks
- ii. Explain Booting Process in detail. 5Marks

**OR**

- i. Explain key components of File System Management. 5Marks
- ii. What distinguishes freeware from shareware in terms of usage, cost, and distribution? 5Marks

**Question 2 Answer the following questions:**

- i. Explain classification of IP addresses in detail. 5Marks
- ii. Explain OSI model and its layers in detail. 5Marks

**OR**

- i. Explain TCP/IP Model in detail. 5Marks
- ii. What is Hub? Explain its types. 5Marks

**Question 3 Answer the following questions:**

- i. Explain primary storage devices and magnetic storage devices in detail. 5Marks
- ii. Explain flash memory devices and optical storage devices in detail. 5Marks

**OR**

- i. Compare multiple aspects of RAM, Swap, Virtual Memory and Cache. 5Marks
- ii. Discuss swap space and virtual memory in detail. 5Marks

**Questions 4 Answer the following questions:**

- i. What is Virtualization? Give its advantages. 5Marks
- ii. Describe Hypervisors and its types. 5Marks

**OR**

- i. Differentiate between Virtualization and Cloud Computing 5Marks
- ii. Explain VMware and VirtualBox. 5Marks

**Questions 5: Attempt any Ten out of Twelve.****10 Marks**

1. What is DHCP?
2. What is Extended File System?
3. IPv6 uses a \_\_\_\_ bit address format.
4. What is Node in network?
5. List out the layers of OSI model.
6. How many ports are there in the system?

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7. What are PoE switches?
8. Convert the given units. 2 Kilobyte = \_\_\_\_ Bytes
9. What is CD-RW?
- 10 What is Cache memory?
- 11 Give disadvantage of RAID 0.
- 12 Swap is slower than RAM. (True/False).

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