

S. B. Roll. No.....

**MOBILE TECHNOLOGIES**  
**5<sup>th</sup> Exam/CSE/IT/0895/Nov'24**  
**(For 2018 Batch Onwards)**

**Duration: 3Hrs.**

**M.Marks:75**

**SECTION A**

**Q1. Do as directed.**

**15x1=15**

- a. GSM stands for \_\_\_\_\_.
- b. What do you mean by HLR?
- c. What is cloud computing?
- d. List out various mobile operating systems.
- e. Define Indirect TCP.
- f. NFC stands for \_\_\_\_\_.
- g. MANET stands for \_\_\_\_\_.
- h. VAN stands for \_\_\_\_\_.
- i. What is Mobile Internet Protocol (Mobile IP)?
- j. CDMA stands for \_\_\_\_\_.
- k. List out different types of mobile devices.
- l. What is Mobile Application Development?
- m. Define Wi- Max Standard.
- n. TCP stands for \_\_\_\_\_.
- o. Define Distributed Operating System.

**SECTION-B**

**Q2. Attempt any six questions.**

**6x5=30**

- i. What are the requirements for physical mobility?
- ii. Difference between Network Operating system and Distributed Operating System.
- iii. What are the major goals of Mobile IP?
- iv. Write a short note on : a) Mobile Ad-Hoc Network b) Near Field Communication
- v. Describe the IEEE 802.16 Wi Max standard?
- vi. Explain WWW programming model.
- vii. What is GPRS? What are the various applications of GPRS?
- viii. Define Mobility. What are the technical Issues and Challenge for mobility?
- ix. Write a note on Operating System for mobile devices with example.

**SECTION-C**

**Q3. Attempt any three questions.**

**3x10=30**

- a. Explain GSM architecture in detail
- b. Write a short note on the following. i) Ubiquitous Computing ii) Network Operating System
- c. What are the different types of mobile computing devices and explain various mobile operating systems.
- d. What are different Transport layer issues in Wireless Communication? Explain briefly Indirect TCP and Mobile TCP.
- e. Explain in detail IEEE 802.11 WLAN standard.

P.S.B.T.E.&I.T.

