

B.E DEGREE EXAMINATIONS: NOV /DEC 2024

(Regulation 2014)

Seventh Semester

COMPUTER SCIENCE AND ENGINEERING

U14CST701: Mobile and Pervasive Computing

COURSE OUTCOMES**CO1:** Explain the concepts and features of mobile networks.**CO2:** Explain the working of wireless communication protocols.**CO3:** Compare the routing protocols of mobile networks.**CO4:** Explain the transport and application layer protocols of mobile networks.**CO5:** Outline the basics of pervasive computing.**Time: Three Hours****Maximum Marks: 100****Answer all the Questions:-
PART A (10 x 1 = 10 Marks)**

1. Match List I with List II

CO1 [K₂]

List I	List II
A. Base Station	i. Frequency is borrowed and assigned to cells.
B. MTSO	ii. Each cell is served by at least one fixed-location transceiver.
C. DCA	iii. MSC automatically transfers the call to a new FDD channel.
D. Handoff	iv. Monitors the quality of the communications signal.

- | | A | B | C | D |
|----|-----|----|-----|-----|
| a) | ii | i | iii | iv |
| b) | iii | iv | ii | i |
| c) | ii | iv | i | iii |
| d) | iii | i | ii | iv |

2. GSM uses the _____ for internal unique identification of a subscriber.

CO1 [K₁]

- | | |
|---------|--------|
| a) IMSI | b) MCC |
| c) MSIN | d) MNC |

- b) List the features of WML and explain how it differ from WML Script. (4) CO4 [K₂]
26. a) Explain about Ubiquitous computing and explain the most important characteristics of pervasive environment. (7) CO5 [K₂]
- b) Outline various security concepts and with illustration explain about server-side security of a web application. (7) CO5 [K₂]
27. a) Outline the issues occurs during installation of new software and updating the old one. (4) CO5 [K₂]
- b) Explain about smart card-based authentication via internet with neat illustration. (10) CO5 [K₂]
