

Hall Ticket Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Code No. : 243 AS

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
M.C.A. II Year II-Sem. Advanced Supplementary Examinations, June/July-2017

Mobile Communications

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

1. What is CDMA?
2. Define Frequency hopping spread spectrum.
3. List the types of Hand overs in satellite systems.
4. Define symmetrical and asymmetrical communication systems.
5. Write IEEE 802.11 b PHY packet formats.
6. List out the applications of WLAN.
7. What are the advantages and disadvantages of DSDV?
8. Write the requirements of Mobile IP.
9. List any three features of Operating system for mobile devices.
10. What is WML?

Part-B (5 × 10 = 50 Marks)
(All bits carry equal marks)

11. a) Define Modulation. Discuss in brief about different types of modulation techniques.
b) Explain about cellular systems.
12. a) Describe Handovers and the security services in GSM.
b) Describe in brief about UMTS Architecture.
13. a) Explain how MAC layer performs power management in IEEE 802.11 WLAN.
b) Explain in brief about the two different transmission technologies used to set up wireless LAN.
14. a) Illustrate the working of Dynamic Host configuration protocol.
b) Explain Tunneling and encapsulation.
15. a) Describe in brief about how Coda file system maintains consistency.
b) Draw and explain the architecture of Wireless Application protocol.
16. a) Discuss the applications of wireless network and mobile communications.
b) Explain in brief about the multimedia object transfer protocol for data transfer in Digital Audio broadcasting.
17. Write short notes on any *two* of the following:
 - a) WATM
 - b) Mobile IP optimization
 - c) Palm OS.

