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Code No. : 252 O

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**M.C.A. II Year II-Sem (Old) Examinations, April-2018**

**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 FDMA?
2. Define Phase shift Keying.
3. What is cycle repetition of data?
4. List out the applications of Telecommunication systems.
5. What is the main motivation behind BRAN?
6. What are the limitations of Bluetooth transmission technology?
7. Define tunneling.
8. List the advantages and disadvantages of DSR.
9. Write the features of Symbian OS.
10. State the purpose of wireless data gram protocol.

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

11. a) Define Spread spectrum. Discuss in brief about different types of spread spectrum.  
b) Explain in brief about Path loss of signal propagation.
12. a) What is Telecommunication system? Explain in brief about the Architecture of GSM.  
b) Discuss in brief about convergence of broad casting in mobile communications.
13. a) What is roaming? Explain roaming between access points in WLAN.  
b) Discuss the protocol Architecture of HIPERLAN.
14. a) What is Snooping-TCP? Explain its advantages and disadvantages.  
b) Illustrate DSDV routing protocol.
15. a) How various file systems maintains consistency of replicated objects?  
b) Discuss wireless data gram protocol.
16. a) Justify the need for specialized MAC in wireless systems. Explain Classical ALOHA.  
b) Explain in brief about the multimedia object transfer protocol for data transfer in Digital Video broadcasting.
17. Write short notes on any *two* of the following:
  - a) IEEE 802.11 architecture
  - b) Mobile - IP Packet delivery
  - c) WML Script.

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