

# END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY 2017

**Paper Code: BCA-304**

**Subject: Mobile Computing**

**Time: 3 Hours**

**Maximum Marks: 75**

**Note: Attempt any five questions including Q no.1 which is compulsory.  
Select one question from each unit.**

- Q1 Answer **any five** of the following questions briefly:- **(2.5x5=12.5)**
- (a) What is WAP push protocol?
  - (b) What do you mean by CDMA?
  - (c) Write the attributes of <template> tag in WML.
  - (d) What is unified messaging?
  - (e) Define the term Bluetooth.
  - (f) What is rendering?
  - (g) Write logical operators in WML script.

### UNIT-I

- Q2 (a) Describe the multiplexing techniques with suitable diagrams. **(8)**  
 (b) What are the factors that enable the Convergence of Wired with Wireless media? Explain each of them. **(4.5)**
- Q3 (a) Discuss FSK, PSK, AFSK and APSK. **(8)**  
 (b) With an example, explain the direct sequence spread spectrum. **(4.5)**

### UNIT-II

- Q4 (a) Explain the MAC mechanism used in WLAN. **(4.5)**  
 (b) Explain the term and their functionalities of GSM architecture. **(8)**
- Q5 (a) Differentiate between FDMA, TDMA and CDMA. **(6)**  
 (b) Discuss in detail location management in mobile networks. **(6.5)**

### UNIT-III

- Q6 (a) What are the various types of WML tasks? Discuss their attributes and usage with the help of a program. **(7.5)**  
 (b) What are all services available for mobile internet? **(5)**
- Q7 (a) Write a program to add, subtract and multiply in WML. **(6)**  
 (b) What are WML decks? Explain. **(6.5)**

### UNIT-IV

- Q8 (a) Create a function to check whether a number is prime or not using WML script. **(5)**  
 (b) Explain all WML script operators with example. **(7.5)**
- Q9 (a) Explain the access pragma and meta pragma with the help of example. **(6)**  
 (b) Explain the structure of Wireless Application Protocol. **(6.5)**

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