

(Please write your Exam Roll No.)

Exam Roll No. ....

# END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY- JUNE 2015

Paper Code: BCA-304

Subject: Mobile Computing  
(Batch 2011 onwards)

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 the following questions:- (10x2.5=25)
- (a) List four limitations of mobile computing.
  - (b) Discuss how roaming is facilitated in a mobile phone.
  - (c) What is Wireless Session Protocol?
  - (d) What is the role of UDP in WAP?
  - (e) List four features of a WML card.
  - (f) What is the role of standard library functions in any programming language?
  - (g) Compare html and xhtml.
  - (h) What is the difference between datagram and Packet?
  - (i) What is IEEE 802.15.1?
  - (j) What is the function of URL & http?

## UNIT I

- Q.2 (a) What is the role of DBMS & ROBMS in mobile data management? List three examples of database systems for mobile computing. (7.5)  
(b) List five functions of Middleware for mobile systems. (5)
- Q.3 (a) Describe how implicit and explicit business logic is implemented in mobile computing. (5)  
(b) Compare and contrast client server, distributed and mobile computing architecture. (7.5)

## UNIT II

- Q.4 (a) Explain in detail the WAP Architecture with special emphasis on WDP & WTLS. (8)  
(b) Discuss Wireless transaction Protocol (WTP). (4.5)
- Q.5 (a) Explain the physical and networking layers of WAP. (4.5)  
(b) Define the following terms:- (4x2=8)  
(i) CGI script (ii) Micro browser (iii) https  
(iv) Directory service

## UNIT III

- Q6 (a) W.r.t. WML define the following:- (12.5)  
(i) WML document Prolog  
(ii) WML document Body  
(iii) Deck and Card Elements  
(iv) Text Formatting Tags  
(v) Event elements
- Q7 What is WML Script? Define the following terms & its role. (12.5)  
(i) Bytecode  
(ii) Functions  
(iii) Data types  
(iv) Strings

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**UNIT IV**

- Q8 W.r.t. Wireless Telephony Application (WTA) explain the following:- (12.5)
- (i) WTA application
  - (ii) WTA Logical Architecture
  - (iii) WTA security requirements
- Q9 Compare pull and push technology of WAP push framework with the help of real world examples. Explain PPG architecture & PAP architecture. (12.5)

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