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 Architcture 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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