END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY 2018

Paper Code: BCA-304	Subject: Mobile Computing
Time: 3 Hours	Maximum Marks: 75

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

Q1   Answer the following: **(2.5x10=25)**
  (a) "Antenna is an isotropic radiator." Explain. Name different types of antenna.
  (b) What is delay spread? What are its consequences?
  (c) What is meant by MEO? What are the advantages of it?
  (d) What is Handover? Explain in brief.
  (e) What is WAP Gateway? Explain.
  (f) What are the capabilities of WML Script?
  (g) Write the attributes of "Template" Tag in WML.
  (h) Explain in brief the key services of mobile Internet.
  (i) Explain the concept of attenuation and shadowing of radio signals.
  (j) Explain in brief the applications of wireless communications.

Unit-I

Q2   What is Multiplexing? Explain various types of multiplexing in detail.**(12.5)**

Q3   Explain the mechanism of spread spectrum. What is its importance? Explain its types in detail.   **(12.5)**

Unit-II

Q4   (a) What do you mean by authentication in GSM?   **(6.5)**
  (b) Explain how a mobile terminated call is routed in GSM with diagram.**(6)**

Q5   (a) Explain hidden and exposed terminal problem in WLAN.   **(6.5)**
  (b) Explain DAMA and PRMA.   **(6)**

Unit-III

Q6   Explain WML events with the help of suitable examples.   **(12.5)**

Q7   (a) Write WML Script to check a date.   **(6.5)**
  (b) Write a WML Script function to calculate the factorial of a number and show its usage in WML Program.   **(6)**

Unit-IV

Q8   (a) What are the challenges and pitfalls in making the internet mobile?**(6.5)**
  (b) Draw WAP architecture. Explain the WSP and WTP layers.   **(6)**

Q9   (a) What are pragmas in WMLScript? Explain meta pragma and access pragma with suitable example.   **(6.5)**
  (b) Explain WML Document Prologue and Text Formatting Tags with suitable examples.   **(6)**

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