Roll No. Total Pages : 03 (193)

D-C-190193

B. Tech. EXAMINATION, 2019

Semester VII (CBS)
WIRELESS AND MOBILE COMPUTING
CS-702

Time: 3 Hours Maximum Marks: 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Attempt Five questions in all, selecting one question from each Section A, B, C and D. Q. No. 9 is compulsory.

Section A

What is Mobile Computing? Draw architecture of mobile computing with various applications of mobile computing.

Draw and explain GSM Protocol's stack. Also discuss
 GSM services.

Section B

- 3. What are the design constraints for applications targeted for handheld devices?
- 4. How does the Mobile IP work? Explain its architecture and tunnelling with neat diagram. 10

Section C

- What are the Wireless LAN standards? Explain WMAN Network architecture.
- Discuss IEEE 802.11 protocol architecture. Explain in detail its features and applications with diagrams.

Section D

10

- 7. State the challenges of a MANET. List and explain the applications of Ad Hoc networks. 10
- Explain in detail DSDV routing algorithm for MANETS with an example.

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Section E

(Compulsory Question)

- 9. Explain the following:
 - (a) Write the entities of mobile networks layer.
 - (b) What is Snooping TCP and Mobile TCP?
 - (c) Write about time-out freezing concept.
 - (d) Write about the Mesh Networks.
 - (e) Define HLR and VLR.
 - (f) What are the logical channels in GSM?
 - (g) Draw the WAP Architecture.
 - (h) Explain about the selective retransmission.
 - (i) What is Walsh function?
 - (j) Define the handover concept. $2\times10=20$