Branch: M. Tech (Wireless Communication and Computing)   **Sem.:- I**

Subject with Subject Code:- Mobile Computing (MTWCC103)   **Marks: 20**

Model Solution

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Q. No. 1.   **Attempt any one of the following:**   **Marks**

a] Discuss the architecture and design considerations of mobile computing.   08
   Solution:
   - Correct description of architecture with suitable diagrams (02+02 Marks). Marks should not be given if only diagrams are drawn.
   - Description of any 4 design consideration carries 01 mark each.

b] Discuss **Mobile IP** in detail. Comment on the different performance issues in **Mobile IP.**   08
   Solution:
   - Correct description of architecture with suitable diagrams (02+02 Marks). Marks should not be given if only diagrams are drawn.
   - Description of any 4 performance issues carries 01 mark each.

Q. No. 2.   **Attempt any three of the following:**
a] List and explain different propagation models used in mobile computing.   04
   Solution:
   - Description of any 4 models carries 01 mark each. Marks should not be given if only diagrams are drawn.

b] Write a short note on **Mobile TCP.**   04
   Solution:
   - Description of the model with proper diagrams of details of Mobile IP carries 02 +02 mark each. Marks should not be given if only diagrams are drawn.

c] Discuss the GSM architecture.   04
Solution:
- Description of the model with proper diagrams of details of GSM architecture carries 02 +02 mark each. Marks should not be given if only diagrams are drawn.

d] Differentiate between Bluetooth, Radio frequency identification (RFID) and Wireless Broadband technology.   04
Solution:
- Correct differentiation based on any 04 operational parameters: 01 mark each. Evaluator must ensure that marks should not be given to the non-operational points and its description.

e] Discuss the *IPV6* system for mobile communication.   04
Solution:
- Description of the model with proper diagrams of details of IPV6 architecture carries 02 +02 mark each. Marks should not be given if only diagrams are drawn.

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