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Module 1

1) What is mobile computing and explain its components. (5m)
2) Explain Telicommunication generation (10m) difference between them (5m)
3) What is cellular system (5m)
4) Explain electromagnetic spectrum with its application (10m)
5) Explain Antenna with its type (5/10m)
6) Explain Signal propagation and its problem (10m)
7) Define signal with charecteristics (5/10m)
8) Explain multiplexing and its type (10m)
9) What is spread spectrum and explain types of it. (DSSS ~~&~~ FHSS) (10m)
slow fast

Module 2

1) Explain GSM mobile services (5m)
2) Explain GSM architecture (10m)
3) Explain Redio interfaces in GSM (5m)
4) Explain GSM protocol stack. (10m)
5) Explain localization (7 steps) and calling process (10 steps) (10m)
6) Explain handover and types of it (10m)
7) Explain GSM security algorithm (10m)
8) Explain GPRS system architecture (10m)
9) Explain GPRS protocol stack (10m)
10) Explain UTRAN system architecture (10m)

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3rd Module

1) Explain MAC protocol (5M)
2) Give difference between internet protocol and transport layer (2 or 5 m)
*3) What is Mobile IP. and Explain its process (2/5/10 marks)
*4) Explain Reverse tunneling (2/5 marks) IMP
*5) Explain Mobile TCP. (10 marks)
*6) Explain indirect tcp, snooping tcp, and mobile tcp. (2 marks each)
7)

4th Module.

*1) Explain infrastructure and adhoc. network (5 m)
2) Explain IEE 802.11 system architecture (5/10 m)
3) Explain IEE 802.11 prototype architecture (5/10 m)
*4) Give diffn between 802.11 A and 802.11 B (5 m)
*5) Write short note on wifi security (5 m).
*6) Write short note on wireless lan threads (5m)
*7) Explain WEP, WPA (2/5 m)
*8) Explain blutooth and its 2 topology (piconet and scatternet) (2/5/10 m)
*9) Explain blutooth architecture (5/10 m)
10) Explain blutooth protocol stack (5/10 m)

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5th Module

* 1) Explain mobile ip optimization (5/10 m)
2) Write short note on ip V6 (5m)
* 3) Explain different approaches used in macro mobility (MIPV6, FMIPV6) (2/5 m)
*4) Explain different approaches used ~~in~~ in micro mobility (Cellular IP, HAWAII, HMIPV6) (2m for each / 5 m)

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6th Module

1) Explain *i) LTE (5 m)
*ii) VoLTE (2/5 m).
*iii) SAE architecture (5/10 m)
iv) 2G, 3G, 4G, 5G, (5/10 m)

For Each Module Marks

Module 1 - 15 m
Module 2 - 30 m
Module 3 - 25 m
Module 4 - 15 m
Module 5 - 25 m
Module 6 - 10 m