Q.2 b. List some perspective application areas for sensor networks.
Answer: Page Number 23 of Text Book

c. Define Poisson distribution, Geometric distribution and Binomial distribution.
Answer: Page Number 33-34 of Text Book

Q.3 a. What do you mean by fading? Explain the fading effects due to multipath time delay spread.
Answer: Page Number 72 of Text Book

b. Explain linear block code and cyclic code with example.
Answer: Page Number 80, 85 of Text Book

Q.4 a. Determine the maximum throughput that can be achieved using Aloha and slotted Aloha Protocols.
Answer: Page Number 129-130 of Text Book

b. What do you mean by Interference? Explain the CCI and ACI in terms of system capacity.
Answer: Page Number 114-115 of Text Book

Q.5 a. What is the fundamental difference in concept for calculating the capacity of CDMA cellular system over FDMA system?
Answer: Page Number 144-145 of Text Book

b. Explain with neat sketch, Overlapped cells- based channel allocation.
Answer: Page Number 179 of Text Book

Q.6 a. Explain Home Agents, Foreign Agents & Mobile IP.
Answer: Page Number 201 of Text Book

b. Explain GEO satellite beam footprint.
Answer: Page Number 264-265 of Text Book

Q.7 a. Draw the architecture and signalling system for the GSM and Explain each block.
Answer: Page Number 229 of Text Book

b. Explain the IMT-2000 system and AMPS.
Answer: Page Number 223, 249 of Text Book

Q.8 a. What is the basic concept of MANET and explain the architecture of MANET.
Answer: Page Number 304-305 of Text Book

b. What are the difference between wireless sensor networks and fixed wireless sensor networks?

Answer: Page Number 334, 339 of Text Book

Q.9 Write short note on any **TWO:**

(i) Directional and smart antennas
(ii) Ultra Wideband Technology
(iii) WPAN 'S'

Answer: Page Number 423, 399, 377 of Text Book

Text Book

Introduction to Wireless and Mobile Systems, Second Edition (2007), Dharma Prakash Agrawal and Qing-An Zeng, Thomson India Edition