

Please check whether you have got the right question paper.

- N.B:**
1. All questions are compulsory.
  2. Answer to the two sections must be written in same book and should be submitted together.
  3. Write answer to same questions together
  4. Mixing of sub-questions is not allowed.

### SECTION - I

- Q.1 (A) Explain "Modulation and Demodulation". Also explain AM and FM. 06  
 (B) Differentiate between FDM and TDM. Also explain FTDM and its application. 07
- OR**
- (A) Discuss Hidden and exposed terminal problem. 06  
 (B) Write a note on "Spread Spectrum". 07
- Q.2 (A) Write a note on "TETRA". Also mention its applications. 06  
 (B) Explain GSM architecture. 07
- OR**
- (A) State and explain GPRS Architecture. 06  
 (B) Define Broadcasting and explain DAB and DVB in brief. 07
- Q.3 (A) Explain "IEEE 802. 11" standard. 06  
 (B) Explain the concept of Agent advertisement and solicitation. 06
- OR**
- (A) Write a short note on WAP. 06  
 (B) Write your view on "Mobile / Wireless technology v\ s Wired Technology". State the applications of both in real life. 06

### SECTION - II

- Q.4 (A) Explain various Technology Acceptance Phases. 06  
 (B) Explain the layers of OSIRM used in routers. 07
- OR**
- (A) Write note on Translation & Encapsulation bridges. 06  
 (B) Write note on Distance Vector Protocol. 07
- Q.5 (A) Describe DWDM and briefly explain performance and design consideration. 06  
 (B) Explain in detail the access network design. 06
- OR**
- (A) Draw the B-ISDN protocol reference model 06  
 (B) State the advantages and disadvantages of xDSL over legacy dial access. 06
- Q.6 (A) What is ATM? Explain in brief. 06  
 (B) Explain with example the difference between access network and transport layer network. 06
- OR**
- (A) Describe the control function of SNA Architecture. 06  
 (B) Discuss the business and technical challenges and requirements faced by the organizations 06