

[3 hours]

[Marks: 80]

- a) Question No. 1 is compulsory
- b) Attempt **any three** from the remaining six questions
- c) Assumptions should be made whenever required and should be clearly stated
- d) Answers to sub questions should be answered together
- e) Illustrate answers with diagrams wherever necessary
- f) Use of Calculators is permitted

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| Q1 | A | Discuss the importance of various next generation networks | 10 |
| | B | Analyze the LTE Technology | 10 |
| Q2 | A | What is VoIP. Discuss the architecture of the VoIP | 10 |
| | B | What is High Definition? Explain in brief the 3 D television services | 10 |
| Q3 | A | Explain the building blocks of the NGN | 10 |
| | B | Discuss the Architecture of NGN Based IPTV | 10 |
| Q4 | A | Explain the various Wireline NG Technologies | 10 |
| | B | What is VPN? Explain the architecture | 10 |
| Q5 | A | Explain the various services provided by the IMS | 10 |
| | B | Explain the QoS provided using the MPLS | 10 |
| Q6 | | Write short notes on any four of the following | 20 |
| | | 1. HBB-NEXT | |
| | | 2. QoS in MPLS | |
| | | 3. Multimedia Services | |
| | | 4. Next Generation Society | |
| | | 5. ZigBee | |
