

(2 ½ Hours)

[Total Marks: 75]

- N.B. 1) All questions are compulsory.  
 2) Figures to the right indicate marks.  
 3) Illustrations, in-depth answers and diagrams will be appreciated.  
 4) Mixing of sub-questions is not allowed.

**Q. 1 Attempt All (Each of 5 Marks)****(15M)****(a) Multiple Choice Questions**

1. The \_\_\_\_\_ is a message-oriented transport layer protocol
  - a) Datagram Congestion Control Protocol (DCCP)
  - b) Data Congestion Control Protocol
  - c) Datagram Communication Control Protocol
  - d) Datagram Congestion Communication Protocol
2. Installing software through apt-get which command is been used \_\_\_\_
  - a) sudo apt-get install <package-name>
  - b) sudo apt-get update <package-name>
  - c) sudo apt-get <package-name>
  - d) apt-get install <package-name>
3. DTLS stands for \_\_\_\_\_
  - a) Data Transport Layer Security.
  - b) Datagram Transport Layer Security.
  - c) Datagram Transmission Layer Security.
  - d) Data Transfer Layer Security.
4. The \_\_\_\_\_ command changes the user and/or group that own a file.
  - a) cat
  - b) r-w-x
  - c) touch
  - d) chown
5. An MPTCP *Connection* between endpoints is formed of one or more MPTCP Sub flows
  - a) True
  - b) False

TURN OVER



**Q. 4 Attempt the following (Any THREE) (15 M)**

- (a) Discuss the working of Datagram Congestion Control Protocol. Also explain ECN with an example.
- (b) Discuss the important features of MPTCP.
- (c) Write a short note on multi streaming
- (d) How HTTP help us in our day to day life.
- (e) How publisher and subscriber works in MQTT protocol
- (f) Explain basic operations available in XMPP

**Q. 5 Attempt the following (Any THREE) (15 M)**

- (a) Discuss different M2M technologies?
- (b) Write a short note on 6TiSCH.
- (c) What is a Service layer? Who accesses the service layer?
- (d) Discuss features of ETSI M2M high level architecture with diagram.
- (e) How BBF helps to overcome the challenges faced by different organisations?

\*\*\*\*\*