

## V63/T04072/EE/2016

Time : 3 Hours

Marks : 80

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### Instructions :

1. All Questions are Compulsory.
  2. Each Sub-question carry 5 marks.
  3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
  4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
  - a) Write down the advantages and disadvantages of Inkjet printers. 5
  - b) Describe the construction and working of flat-bed scanner. 5
  - c) Describe the construction and working of DVD. 5
  - d) Describe the Hub architecture. 5
  - e) What is the advantage and disadvantage of RS-232? 5
2. Solve any **four** sub-questions.
  - a) List and explain types of ATX form factor. 5
  - b) How to troubleshoot the RUN problems give the stepwise process? 5
  - c) Draw and explain the general block diagram of UPS. 5
  - d) Write down the importance of preventive maintenance. 5
  - e) Write down use of output voltage of SMPS. 5

3. Solve any **four** sub-questions.
- a) What is topology? List the types of topology. 5
  - b) Describe the Circuit Level Gateways network device in details. 5
  - c) Comparison between Hub and Switch. 5
  - d) Describe the UTP type of Twisted Pair cable. 5
  - e) Write down the advantages and disadvantages of Mesh topology. 5
4. Solve any **four** sub-questions.
- a) What are the congestion control policies in Network and Transport layer? 5
  - b) Describe the FTP protocol in brief. 5
  - c) Explain the functions of application layer in OSI model. 5
  - d) Compare between IPv4 and IPv6. 5
  - e) Write short notes on error correction. Mention the types of error correcting methods. 5

