

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2019

NETWORK INFRASTRUCTURE MANAGEMENT

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

I Answer *all* questions in one or two sentences. Each question carries 2 marks.

1. Give any four hardware component of network infrastructure management.
2. List the versions of IP addressing.
3. State IP security.
4. Give the function of IGP protocol.
5. Define Dynamic routing.

(5 × 2 = 10)

PART — B

(Maximum marks : 30)

II Answer any *five* of the following questions. Each question carries 6 marks.

1. Differentiate between Switch and Router.
2. Mention any three advantages of twisted pair cable over than coaxial cable.
3. Differentiate between domain and workgroup.
4. Describe how to add group membership.
5. Give the steps for setting up Trap Logging.
6. Write brief description about 'Talking to router' through console mode.
7. Discuss about route selection.

(5 × 6 = 30)

PART — C
(Maximum marks : 60)

(Answer *one* full question from each unit. Each full question carries 15 marks.)

UNIT — I

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| III | (a) Discuss about Bluetooth and its advantages. | 8 |
| | (b) Explain about bridge and gateway. | 7 |

OR

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| IV | (a) Write short notes on peer-to-peer and client-server network model with diagram. | 8 |
| | (b) Describe the structure and working of Fiber optics media with diagram. | 7 |

UNIT — II

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|---|--|---|
| V | (a) Describe the steps for the installation of active directory. | 8 |
| | (b) Write the working principle of DNS. | 7 |

OR

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| VI | (a) Write short notes on :
<div style="display: flex; justify-content: space-between; margin-top: 5px;"> (i) Domain (ii) Domain Controller </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> (iii) Additional Domain Controller (iv) Forest </div> | 8 |
| | (b) List the steps for creating trust relations. | 7 |

UNIT — III

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| VII | (a) Explain Basic Router configuration steps. | 8 |
| | (b) Write description about router's IOS upgrading. | 7 |

OR

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| VIII | (a) Describe Setting up Buffered Logging in IOS. | 8 |
| | (b) Write the configuration steps of Router register settings. | 7 |

UNIT — IV

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| IX | (a) Describe TCP/IP static routing concept. | 8 |
| | (b) List the steps for displaying general router information. | 7 |

OR

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| X | (a) Discuss about EGP Routing Protocols. | 8 |
| | (b) Explain Network management fundamentals. | 7 |