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MCS–E10

MCA IVth Semester
Examination Dec., 2023

WIRELESS NETWORKS

Time : 2 Hours]   [**Max. Marks :** 70

Note **:–** This paper is of Seventy (70) marks divided into two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given there in. ***Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.***

Section–A

(Long Answer Type Questions)   2×19=38

Note **:–** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Define wireless network. Explain Hardware and Software need of wireless network with proper figure and all basic hardware Subsystem in details.

2. What is Modulation ? Explain in detail multiplexing and duplexing.

3. What is Photovoltaic system components ? Explain with example.

4. What are the applications of Access Point ? Explain the process of Access Point Configuration in details.

5. (a) Explain 802.11 and 802.22 standard.

   (b) Explain Devices and firmware for embedded devices.

Section–B

(Short Answer Type Questions)   4×8=32

Note :– Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. How we can protect wireless network ? Explain with example.

2. Explain Mesh Network and its Routing protocols.

3. Explain Internet Protocols and Internet Protocol Suite.

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4. Differentiate wired networks and wireless networks based on routing.

5. What is electromagnetic spectrum ? How is the spectrum adjuducated ?

6. Define Connectors and adapters. Explain Reflector theory with example.

7. Explain OSI model with suitable diagram.

8. Explain Frequencies and channels in details.

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