

V-1851

B. E. (Eighth Semester) Examination, 2020

(For ATKT Students)

(Electronics & Communication Engg. Branch)

Paper : First

(Elective-II) (EC-8013)

**PRINCIPLES of MANAGEMENT
& MANAGERIAL ECONOMICS**

Maximum Marks : 70

Note: Attempt all questions. All questions carry equal marks.

1. Write a note on Management concept.
2. Describe the functions of Management.
3. How Decisions are made under Uncertainty? Explain.
4. Write notes on : (any **one**)
 - (i) Theory of Production function
 - (ii) Theory of Cost
5. Write an essay on the “Productivity concept and factors affecting productivity.

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(For ATKIT Students)

(Electronics and Communication Engg.)

Papre : Second

ADVANCE COMMUNICATION SYSTEM (EC-802)

Maximum Marks : 70

*Note: Attempt all the **five** questions. Each question carries equal marks.*

1. (a) What do you mean by Spread Spectrum technique? Explain.
(b) What is inter carrier interference? Explain how it can be overcome?
2. (a) How time frequency selective channel estimation is done in OFDM system?
(b) Discuss adaptive modulation technique in brief.
3. (a) Give the basic differences of Smart antennas over the normal antennas.
(b) Explain briefly about antennas for base stations.
4. (a) How is spectrum sharing done in cognitive radio system? Explain with the help of suitable block diagram.
(b) What do you mean by Overlay and Underlay?
5. (a) Discuss about routing and resource allocation in collaborative networks.
(b) What are fundamentals of relaying? Discuss relaying with multiple parallel relays.

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Paper : Third (EC-803)

COMPUTER NETWORKS

Maximum Marks : 70

Note : Attempt all parts. Each part carries equal marks.

1. (a) What are the performance measures of the network? Explain them with the help of mathematical formula.
(b) Explain different types of computer network.
2. (a) Explain error correction schemes.
(b) A pure ALOHA network transmits 200-bit frames on a shared channels of 200 kbps. What is the requirement to make this frame collision-free?
3. (a) Compare and contrast CSMA/CD with CSMA/CA.
(b) Explain ICMP message types.
4. (a) Discuss client/server paradigm for process-to-process communication.
(b) What is functions of BECN and FECN?
5. (a) Differentiate HTTP 1.0 and HTTP 2.0.
(b) Define DNS and explain categories of DNS.

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(EC-804)

Paper : Fourth

TV & RADAR ENGINEERING

Maximum Marks : 70

Note: Attempt all questions. All questions carry equal marks.

1. (a) With the help of block diagram explain the basic principle of sound and picture transmission.
(b) Explain Flicker. How C^7 can be removed?
2. (a) Discuss the designing principle of TV transmitter.
(b) Explain about Co-channel interference and ghost images. How this can be removed?
3. (a) Discuss about fully digital television system.
(b) Discuss the principle working of High Definition Television System (HDTV).
4. (a) Discuss about the pulse separation frequency and range ambiguities in detail.
(b) With the help of block diagram explain the working of MTI radar.
5. (a) Describe working principle and construction of Bistatic radar.
(b) Explain the characteristics and working of RADAR display.