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C09-EC-604

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**BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2018
DECE—SIXTH SEMESTER EXAMINATION
ADVANCED COMMUNICATION SYSTEMS**

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. State the function of waveguide.
2. List the types of indicator used in radar systems.
3. Give the classification of radar.
4. List the advantages of satellite communication over terrestrial radio communication.
5. Draw the block diagram of an earth station.
6. List the Indian remote sensing satellites.
7. Name various optical detectors used in fibre optic communication.

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8. Compare ^{*}repeater optical amplifier.
9. Explain soft hand off in CDMA.
10. What is function partitioning in GSM?

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) The answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) Explain the working of reflex klystron with diagram.
(b) Write the application of reflex klystron.
12. Explain the principle of instrument landing system.
13. (a) Explain communication sybsystem.
(b) Explain power subsystem.
14. Explain the transponder used in satellites with a block diagram.
15. Explain total internal reflection used in optical fibres.
- ^{*} 16. (a) Explain fibre in local area network.
(b) Mention the applications of optical fibres.
17. Explain the functional architecture of intelligent network.
18. Explain the concept of EDGE technology.

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