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Name of Examination : **Summer 2021** - (Preview)

Course Code & Course Name : **ET355UY - Fundamentals Of Telecommunication**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

1) Attempt any three

- 1) Compare analog and digital signal. [3]
- 2) What is simplex, half-duplex and full duplex circuit? [3]
- 3) Explain need of modulation. [3]
- 4) Write note on quality of service [3]

2) Attempt any three

- 1) Explain frequency division multiplexing. [4]
- 2) Explain binary digital System. [4]
- 3) What is traffic measurement and grade of service. [4]
- 4) Describe crosstalk and give some possibilities for reducing its effect. [4]

3) Attempt any three

- 1) What is amplitude modulation? Prove that $m = \frac{V_{\max} - V_{\min}}{V_{\max} + V_{\min}}$ [5]
- 2) State and explain one way and two-way circuit. [5]
- 3) What is Co-axial cable and state its applications. [5]
- 4) Write note on INMARSAT satellite. [5]

4) Attempt any four

- 1) Draw and explain block diagram of communication system [6]
- 2) Write note on end user, node and connectivity. [6]
- 3) Explain microwave-link in details. [6]
- 4) Explain bandwidth requirement of sine and fourier series review. [6]
- 5) State the characteristic of data transmission circuit. [6]

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