



# GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **ET403B - (Elective I)-Broadband Communication**

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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 two of the following.
  - a) Write full form of PSTN, CSPDN, IDN and AAL [2]
  - b) Enlist the bodies that set the standards for various networks. [2]
  - c) What are the disadvantages of ATM? [2]
- 2) Attempt any three of the following.
  - a) Discuss X.25 technology. Enlist X.25 network devices. [4]
  - b) Compare X.25 and frame relay. [4]
  - c) Draw physical layer format of ISDN. What does each bit indicate in the format? [4]
  - d) Discuss different interfaces and terminals used in BISDN. [4]
- 3) Attempt any three of the following.
  - a) Enlist BISDN services. Explain interactive services. [4]
  - b) Write SONET components. Discuss line overhead. [4]
  - c) Write data rates for different ISDN services. [4]
  - d) Enlist ATM service classes. Illustrate Class A. [4]
- 4) Attempt any four of the following.
  - a) Write at least eight ITU recommendations for ISDN. [8]
  - b) Explain ATM reference model in detail. [8]
  - c) Explain SONET frame in detail. [8]
  - d) Illustrate X.25 virtual circuit in detail. [8]
  - e) Discuss broadband ISDN protocol architecture in detail. [8]

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