2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

6

Max. Marks: 80 (07 Marks) (05 Marks) (04 Marks) (07 Marks) (05 Marks) (04 Marks) (07 Marks) (05 Marks) (04 Marks) (08 Marks) (05 Marks) (03 Marks) (07 Marks) (04 Marks) (05 Marks)

(06 Marks)

(06 Marks)

(04 Marks)

(iv) Busy hour.

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Give the comparison between single stage and multistage networks.

Define the following: (i) Holding time (ii) Congestion (iii) GOS

## Module-4

7 a. With neat diagram, explain the space switch.

(06 Marks)

b. Briefly explain the Digital Switching System software classification.

(06 Marks)

c. A T-S-T network has 20 incoming and 20 outgoing PCM highway, each conveys 30 channels, the required GOS is 0.01 and 0.02, find the traffic capacity of the network in mode-1 and mode-2. (04 Marks)

## OR

- 8 a. With neat block diagram, explain S-T-S and T-S-T switching network.) (08 Marks)
  - b. With the help of feature flow diagram, explain feature activation, feature operation and feature deactivation. (08 Marks)

## Module-5

- 9 a. Draw neat block diagram and explain the organizational interfaces of typical DSS central office. (08 Marks)
  - b. Explain briefly with neat block diagram the generic switch hardware architecture. (08 Marks)

## OR

- 10 a. Write a short note on software maintenance. (04 Marks)
  - b. Explain the common characteristics of Digital Switching System. (06 Marks)
  - c. Write the Analysis Report of digital switching system. (06 Marks)

