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EEC802

(Following Paper ID and Roll No. to be filled in your Answer Book)										
PAPER ID : 131802										
Roll No.										

B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15 ELECTRONICS SWITCHING

Time: 3 Hours] [Total Marks: 100

1 Attempt any four parts:

 $5 \times 4 = 20$

- (a) Explain and draw general trunking diagram.
- (b) Explain how packet switching is better than circuit switching for data communication system.
- (c) Explain Read electronic switch with support of diagram.
- (d) Explain one motion and two motion selector.
- (e) Explain register translator sender system.
- 2 Attempt any four parts:

 $5 \times 4 = 20$

- (a) write down the difference between single stage and multistage network.
- (b) Briefly describe digital time division switching.

 Differentiate it with analog time division switching

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- (c) Derive blocking probability of a three stage network using lee graph.
- (d) Explain triangular cross point switches. Calculate the total number of cross points in a triangular crosspoint matrix with 100 subscribers.
- (e) Explain consolidation and segregation.

3 Attempt any two parts:

 $10 \times 2 = 20$

- (a) Define pure birth process and derive the expression for the probability of K arrival. On average, one call arrive every 5 sec. During a period of 10 sec, calculate the probability that.
 - (a) No call arrives.
 - (b) One call arrives.
 - (c) Two call arrive.
 - (d) more than two call arrives.
- (b) Derive and explain erlang B formula and compare it with erlang C formula.
- (c) Derive an equation of grade of service and blocking probability of lost call cleared service.

Attempt any two parts:

 $10 \times 2 = 20$

- (a) Explain common channel signalling with SS7 architecture. Compare common channel signalling with in channel.
- (b) Explain the sequence of operation in call processing function.
- (c) What do you understand by system software of SPC software.

5 Attempt any two parts:

 $10 \times 2 = 20$

- (a) Explain memory space memory switch. Draw 8×8 banyan switch network.
- (b) Discuss TCP/IP reference model.
- (c) Write a short note on:
 - (a) Fixed path routing.
 - (b) Space memory switch.