(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 :   5×4=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 :   5×4=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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(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.

4. Attempt **any two** parts :

                                                     10×2=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.

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