Subject Code: BEC055

PAPER ID-310334

Roll No: | | | | | | | | | | | | | |

BTECH
(SEM V) THEORY EXAMINATION 2024-25
ELECTRONICS SWITCHING

TIME: 3 HRS **M.MARKS: 70**

Note: Attempt all Sections. In case of any missing data, choose suitably.

SECTION A

1. Attempt *all* questions in brief. **2 x 07 = 14**

Q no.	Question	CO	Level
a.	Examine the significance of distribution frame in Strowger System.	1	K3
b.	Describe the reed relay system.	1	K2
c.	Explain the graded rectangular switching, Matrix.	2	K2
d.	Define traffic intensity.	3	K1
e.	Define in band and out band signaling.	4	K1
f.	Explain Banyan switch.	5	K2
g.	Describe Flow control.	5	K2

SECTION B

2. Attempt any *three* of the following: **07 x 3 = 21**

Q no.	Question	CO	Level
a.	Analyze general trunking with neat sketch.	1	K4
b.	Analyze folded four wire switches with its advantages.	2	K4
c.	Analyze mathematical modeling of switching system.	3	K4
d.	Illustrate inter register signaling.	4	K3
e.	Examine ATM cells with header format.	5	K3

SECTION C

3. Attempt any *one* part of the following: **07 x 1 = 07**

Q no.	Question	CO	Level
a.	Analyze cross bar switch and diagonal cross point switch with neat sketch.	1	K4
b.	Analyze various switching function.	1	K4

4. Attempt any *one* part of the following: **07 x 1 = 07**

Q no.	Question	CO	Level
a.	Examine Blocking and Non-Blocking three stage network.	2	K3
b.	Examine TST and STS switching with neat sketch.	2	K3

5. Attempt any *one* part of the following: **07 x 1 = 07**

Q no.	Question	CO	Level
a.	Derive equation for Lost calls cleared system with Infinite sources.	3	K5
b.	Derive Birth death process with neat sketch.	3	K5

6. Attempt any *one* part of the following: **07 x 1 = 07**

Q no.	Question	CO	Level
a.	Illustrate PCM signaling and FDM in band signaling.	4	K3
b.	Illustrate the reliability, availability and security (RAS) system.	4	K3

7. Attempt any *one* part of the following: **07 x 1 = 07**

Q no.	Question	CO	Level
a.	Illustrate TCP/IP header cell.	5	K3
b.	Illustrate dynamic routing protocol and fixed path routing protocol.	5	K3