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BIELE-001

**B. TECH.-VIEP-ELECTRONICS AND
COMMUNICATION ENGINEERING
(BTECVI)**

Term-End Examination

June, 2019

BIELE-001 : TELEVISION ENGINEERING

Time : 3 Hours

Maximum Marks : 70

Note : Attempt any seven questions. All questions carry equal marks. Missing data, may be suitable assumed. Use of scientific calculator is permitted.

1. Explain vestigial side band transmission used in a TV system with help of a neatly labelled diagram. 10
2. What is active and balancing periods in horizontal and vertical scanning ? Explain. 10
3. Draw the block diagram of a monochrome TV receiver and what is the nature of input and output signals at various sections ? 10
4. What is the basic difference between SECAM and other colour TV systems ? Explain. 10

5. With the help of a neat diagram, explain the functional block for the sound section and tuner in a receiver section. 10
6. Explain I signal, Q signal, B-Y signal and G-Y signal used in colour TV System in detail. 10
7. What are the most common TV standards used in the world ? Explain NTSC standards with general specifications. 10
8. Explain the functions of the various patterns available in a colour TV pattern generator. 10
9. Write short notes on any *two* of the following :
5 + 5
 - (a) Coaxial cable for CATV
 - (b) CCD camera
 - (c) Scrambling methods