

Seat No.	
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SV-465

Total No. of Pages : 2

B.E. (ETC) (Part - IV) (Semester - VIII)

Examination, May - 2019

VIDEO ENGINEERING

Sub. Code: 67816

Day and Date : Tuesday, 14- 05 - 2019

Total Marks : 100

Time : 10.00 a.m. to 1.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Assume suitable data, if necessary.
 - 3) Figure to the right indicates full marks.

Q1) Solve any two.

[16]

- a) Draw and explain vertical sync pulses for odd field of TV transmission.
- b) Explain vertical resolution, horizontal resolution & aspect ratio for television.
- c) With neat diagram explain simple and interlaced scanning in detail.

Q2) Solve any two.

[16]

- a) With the help of suitable sketches explain how frequency interleaving is useful for reverse compatibility in case of color information.
- b) Explain with neat block diagrams SECAM coder & decoder.
- c) Draw and Explain chromaticity diagram.

Q3) Solve any two.

[18]

- a) With suitable diagrams explain any two camera tubes in detail.
- b) Explain digital television receiver system.
- c) With suitable diagram explain the operation of PIL color picture tube.

P.T.O.

Q4) Solve any two. [16]

- a) What is HDTV system and explain compatibility of HDTV standards.
- b) Explain video conferencing
- c) Define MAC signals and explain duo binary coding.

Q5) Solve any two : [16]

- a) Explain the concept of stereoscopic effect in 3D TV.
- b) Explain plasma and conduction of charge in plasma TV.
- c) Draw and explain LCD matrix types and operation.

Q6) Write short note on any three. [18]

- a) IR Remote control
- b) CATV
- c) CCTV
- d) DTH Receiver

