

Code No: R05410406

R05**Set No. 2****IV B.Tech I Semester Examinations, November 2010****TELEVISION ENGINEERING****Electronics And Communication Engineering****Time: 3 hours****Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Draw the block diagram of the vertical deflection system in monochrome TV receiver and explain the functions each block.
(b) Write short notes on Automatic Fine Tuning in PAL-D colour receiver. [8+8]
2. Write about the following:
 - (a) Beam width
 - (b) Antenna Gain
 - (c) Directivity
 - (d) Antenna BW. [4×4=16]
3. (a) With a neat sketch, explain the operation of Burst phase IDENT amplifier and colour killer generation circuit.
(b) Write short notes on PAL bistable switch. [10+6]
4. Discuss about picture tube characteristics in detail. [16]
5. Discuss briefly about the following.
 - (a) Camera control unit.
 - (b) Special effects generation.
 - (c) View finder. [5+5+6]
6. (a) How many lines are blanked out in each frame in case of 625 line system. Explain.
(b) Calculate vertical blanking signals for 625 line system. [8+8]
7. (a) Draw the block diagram of UHF tuner and explain the functions of each block.
(b) With a neat sketch, explain the overall IF response curve of a colour TV receiver. [10+6]
8. (a) Draw the block diagram of AFC circuit and explain the functions of each block.
(b) Explain Direct-to-Home satellite Television, concept. [8+8]

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R05**Set No. 4****IV B.Tech I Semester Examinations, November 2010****TELEVISION ENGINEERING****Electronics And Communication Engineering****Time: 3 hours****Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Draw the block diagram of the vertical deflection system in monochrome TV receiver and explain the functions each block.
 (b) Write short notes on Automatic Fine Tuning in PAL-D colour receiver. [8+8]
2. (a) How many lines are blanked out in each frame in case of 625 line system. Explain.
 (b) Calculate vertical blanking signals for 625 line system. [8+8]
3. Discuss briefly about the following.
 (a) Camera control unit.
 (b) Special effects generation.
 (c) View finder. [5+5+6]
4. (a) Draw the block diagram of AFC circuit and explain the functions of each block.
 (b) Explain Direct-to-Home satellite Television, concept. [8+8]
5. Write about the following:
 (a) Beam width
 (b) Antenna Gain
 (c) Directivity
 (d) Antenna BW. [4×4=16]
6. (a) Draw the block diagram of UHF tuner and explain the functions of each block.
 (b) With a neat sketch, explain the overall IF response curve of a colour TV receiver. [10+6]
7. Discuss about picture tube characteristics in detail. [16]
8. (a) With a neat sketch, explain the operation of Burst phase IDENT amplifier and colour killer generation circuit.
 (b) Write short notes on PAL bistable switch. [10+6]

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R05**Set No. 1****IV B.Tech I Semester Examinations, November 2010****TELEVISION ENGINEERING****Electronics And Communication Engineering****Time: 3 hours****Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Draw the block diagram of the vertical deflection system in monochrome TV receiver and explain the functions each block.
(b) Write short notes on Automatic Fine Tuning in PAL-D colour receiver. [8+8]
2. (a) With a neat sketch, explain the operation of Burst phase IDENT amplifier and colour killer generation circuit.
(b) Write short notes on PAL bistable switch. [10+6]
3. Write about the following:
 - (a) Beam width
 - (b) Antenna Gain
 - (c) Directivity
 - (d) Antenna BW. [4×4=16]
4. Discuss briefly about the following.
 - (a) Camera control unit.
 - (b) Special effects generation.
 - (c) View finder. [5+5+6]
5. Discuss about picture tube characteristics in detail. [16]
6. (a) Draw the block diagram of AFC circuit and explain the functions of each block.
(b) Explain Direct-to-Home satellite Television, concept. [8+8]
7. (a) How many lines are blanked out in each frame in case of 625 line system. Explain.
(b) Calculate vertical blanking signals for 625 line system. [8+8]
8. (a) Draw the block diagram of UHF tuner and explain the functions of each block.
(b) With a neat sketch, explain the overall IF response curve of a colour TV receiver. [10+6]

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R05**Set No. 3****IV B.Tech I Semester Examinations, November 2010****TELEVISION ENGINEERING****Electronics And Communication Engineering****Time: 3 hours****Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. Write about the following:

- (a) Beam width
- (b) Antenna Gain
- (c) Directivity
- (d) Antenna BW.

[4×4=16]

2. (a) How many lines are blanked out in each frame in case of 625 line system. Explain.

(b) Calculate vertical blanking signals for 625 line system. [8+8]

3. Discuss briefly about the following.

- (a) Camera control unit.
- (b) Special effects generation.
- (c) View finder.

[5+5+6]

4. (a) Draw the block diagram of the vertical deflection system in monochrome TV receiver and explain the functions each block.

(b) Write short notes on Automatic Fine Tuning in PAL-D colour receiver. [8+8]

5. (a) Draw the block diagram of AFC circuit and explain the functions of each block.

(b) Explain Direct-to-Home satellite Television, concept. [8+8]

6. (a) Draw the block diagram of UHF tuner and explain the functions of each block.

(b) With a neat sketch, explain the overall IF response curve of a colour TV receiver.

[10+6]

7. (a) With a neat sketch, explain the operation of Burst phase IDENT amplifier and colour killer generation circuit.

(b) Write short notes on PAL bistable switch. [10+6]

8. Discuss about picture tube characteristics in detail. [16]
