

17668

21819

3 Hours / 100 Marks

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
 - (7) Write the answers in sequential order.

Marks

1. a) Attempt any THREE of the following: 12
- (i) Describe the following file format.
 - 1) BMP
 - 2) PNG
 - 3) TIFE
 - 4) GIF
 - (ii) List the application of CCTV.
 - (iii) List name of different optical lens used in CD player and state its uses.
 - (iv) Compare DVD and BD (four points)

P.T.O.

- b) **Attempt any ONE of the following:** **6**
- (i) Draw block diagram of DTH receiver and illustrate it's working.
 - (ii) Draw block diagram of VCD player and illustrate function of each block.
2. **Attempt any TWO of the following:** **16**
- a) Describe the working of camcorder and state the function of each block.
 - b) Draw block diagram of blue ray disc player and write the function of each block.
 - c) Explain how bandwidth reduction is achieved using muse system.
3. **Attempt any FOUR of the following:** **16**
- a) State and explain various steps followed in CATV system.
 - b) State concept of projection TV to get large screen.
 - c) Describe the operation of jumbo TV screen.
 - d) Draw block diagram of LCD monitor and explain function of each block.
 - e) State concept of interactive TV.
4. a) **Attempt any THREE of the following:** **12**
- (i) Draw block diagram of MAC encoder and state the function of each block.
 - (ii) Describe the concept of plasma TV.
 - (iii) List various video editing techniques and editing equipment.
 - (iv) Differentiate between digital video signal and analog signal.

- b) **Attempt any ONE of the following:** **6**
- (i) Draw three beam optical pickup assembly in CD player and explain its working.
 - (ii) Draw block diagram of two way cable system and write function of each block and write application of CATV.
- 5. Attempt any FOUR of the following:** **16**
- a) How data storing capacity is enhanced in DVD.
 - b) Compare CRT monitor and LCD monitor.
 - c) Illustrate the difference between normal TV and projection TV on the basis of aspect ratio , number of lines , resolution and application.
 - d) How CCTV works and why audio signal is not transmitted in CCTV?
 - e) List the application of CATV.
- 6. Attempt any FOUR of the following:** **16**
- a) Illustrate the JPEG video compression technique.
 - b) Draw block diagram of transponder for DTH and explain its working.
 - c) Describe the working of CRT monitor.
 - d) Explain the principle of VHS video recording format.
 - e) State two merits and two demerits of plasma display.
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