11819 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.

Marks

1. (A) Attempt any THREE:

12

- (a) Draw the block diagram of basic servo system & illustrate the function of each block.
- (b) Enlist different equipments used in production studio.
- (c) Give the application of CCTV (Any 4 points).
- (d) With the help of diagram explain the construction of CD.

(B) Attempt any ONE:

6

- (a) Draw the block diagram of a MP3 player & illustrate function of each block.
- (b) Draw labelled block diagram of DTH TV & illustrate function of each block.

2. Attempt any TWO:

16

- (a) Draw the block diagram of HDTV & illustrate the function of each block in detail.
- (b) With a neat block schematic illustrate working of three beam optical pickup assembly of CD player.
- (c) State & explain MPEG & JPEG video compression techniques in detail.

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3.	Atte	Attempt any FOUR:					
	(a)	Draw the block diagram of CCTV & explain its working.					
	(b)	Illustrate the principle & working of projection TV to get large screen. Differentiate between Digital Video signal & Analog signal. (Any 4 points) Describe the operation of Jumbo TV Screen. With a neat block schematic illustrate working of colour SVGA.					
	(c)						
	(d)						
	(e)						
4.	(A)	Attempt any THREE:	12				
		(a) State the principle of interactive TV with net diagram.					
		(b) Describe following terms related to HDTV					
		(i) Aspect Ratio (ii) Compatibility					
		(c) Draw a neat block diagram of LED monitor & explain its working & function of each block.					
		(d) Describe video editing techniques & editing equipments.					
	(B)	Attempt any ONE:	6				
	(D)	(a) Draw block diagram of blue ray disc (BD) player & illustrate the	U				
		function of each block.					
		(b) With a neat block schematic illustrate working of camcorder.					
			16				
		Attempt any FOUR:					
	(a)	Draw the block diagram of carriage servo system & illustrate the function of each block.					
	(b)	Describe why (i) CCTV is wired system (ii) Audio signal is not transmitted in					
		CCTV.					
	(c)	State application of projection TV (Any 4)					
	(d)	State multi sync monitor & low radiation screen in detail.					
	(e)	Draw labelled block diagram of a plan for CATV system.					
6.	Atte	Attempt any FOUR:					
	(a)	Differentiate between DVD & BD (Any 4 points).					
	(b)	State the conditional access built in scrambling system.					
	(c)	State the display basic of plasma TV.					
	(d)	Describe jumbo TV screen & its parameter					
		(i) Jumbo screen size (ii) Brightness					
	(e)	State the principle of VHS-C video recording format.					
	(f)	Draw labelled block diagram of two way cable system & illustrate its function.					