2	141	5															
3	Ho	ours	/	10	0	Marks	5	Seat	No.								
	Instru	ctions	s —	(1)	A	All Question	ns are	Comp	oulsor	y.							
				(2)	A	Answer eacl	h next	main	Que	stio	n	on a	a ne	ew	pag	ge.	
				(3)		llustrate yo ecessary.	ur ans	swers	with	nea	t s	ketc	hes	wl	here	ever	
				(4)	F	figures to t	he rig	ht ind	licate	full	l n	nark	s.				
				(5)		Aobile Phor Pocket Calcu		-				r El	lecti	roni	ic		
																Ma	rks
1.	a)		-			THREE of			e		1.		1				12
		(i)				monly used					aec) SI	gna	lS.			
		(ii)			•	eight appli											
		(iii)	Lis [®] plag		ur	components	s of b	asic s	ervo s	syst	em	us us	ed	in (CD		
		(iv)	Co	mpa	re	DVD and	BD. (4	Any fo	our po	oint	s)						
	b)	Attempt any <u>ONE</u> of the following:												6			
		(i)				the function g system ir			onal a	acce	ess	bui	lt i	n			
		(ii)	arra	ange	eme	help of sui ent in three n CD playe	bean	-					-		sem	ıbly	

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2. Attempt any \underline{TWO} of the following:

- a) List different equipments used in production studio and state the function of each.
- b) Draw the block diagram of DVD player. State the function of each block. State any four advantages of DVD.
- c) Draw the block diagram of HDTV and state the function of each block.

3. Attempt any FOUR of the following:

- a) State any four applications of CCTV.
- b) State any four applications of projection TV.
- c) Describe the role of computer system and power control system in plasma TV.
- d) Compare LED and LCD monitor. (Any four points)
- e) State working principle of interactive TV.

a)

(i)

(ii)

4.

(iv) Describe how bandwidth reduction is achieved in HDTV.

Attempt any ONE of the following: b)

brightness.

- Draw constructional details of CD. Name the material (i) used for construction of CD. Describe, how digital signal is stored on tracks of CD.
- 1) Identify Figure No. 1 diagram. (ii)
 - 2) Draw waveforms at A, B and C points when S is open and S is closed. (Refer Figure No. 1)

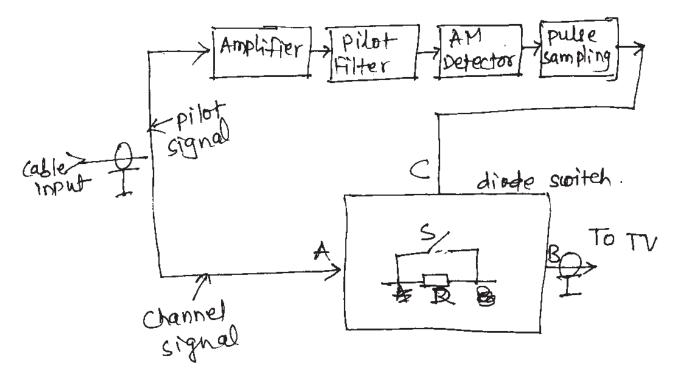


Fig. No. 1

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5.

6.

	Mar
	Attempt any FOUR of the following:
a)	Draw well labeled block diagram of Blue ray disc player; State its two advantages.
b)	Describe the working principle of multi - sync monitors.
c)	Illustrate with block diagram how projection TV is used to get large screen pictures.
d)	Describe why
	(i) CCTV is wired system and
	(ii) Audio signal is not transmitted in CCTV.
e)	Draw block diagram of DTH receiver and state function of each block.
	Attempt any FOUR of the following:
a)	Describe video compression technique of JPEG 2000 with suitable diagram.
b)	Draw planning diagram for CATV system installation and state the function of each block.

- c) Describe the working of CD encoder with the help of suitable diagram.
- d) List specifications of monitor.
- e) State two advantages and 2 disadvantages of plasma display.
- f) Describe the function of Transponder in DTH system with suitable diagram.

Marks

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