Faculty of Engineering & Technology Seventh Semester B.E. (EC/ET) (C.B.S.) Examination TELEVISION & VIDEO ENGINEERING

Time—Three Hours]

[Maximum Marks---80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Solve Question No. 1 OR Questions No. 2.
- (3) Solve Question No. 3 OR Questions No. 4.
- (4) Solve Question No. 5 OR Questions No. 6.
- (5) Solve Question No. 7 OR Questions No. 8.
- (6) Solve Question No. 9 OR Questions No. 10.
- (7) Solve Question No. 11 OR Questions No. 12.
- (8) Due credit will be given to neatness and adequate dimensions.
- (9) Assume suitable data wherever necessary.
- (10) Illustrate your answers wherever necessary with the help of neat sketches.

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,	. ((a)	What do you understand by Interlaced Scanning?	4	5. [ள்ற Sta	te the advantages of digital TV. Draw a	neat
	· He	How it reduces bandwidth and problem of flicker?	1	6		ck diagram of digital TV receiver and exp	plain 8
		. 7	£ ,,	,	· wit	h the same.	<u>y</u>
		, ,			(b) Exp	plain the format of MAC signal used for transmi	ission
,	(b)	Why VSB transmission is done in TV? Explain with		· ·	of o	colour TV signals.	5
		waveforms. 7	, · · · · · · · · · · · · · · · · · · ·	1.		OR	•
		OR		6.		ate the features of following video compre	ession
2.	(a)	Justify why (G - Y) signals is not transmitted in	(4)		tec	hniques.	
(0)		colour TV transmission?		_	(i)	MPEG – 2	
	(b)	Draw chromaticity diagram and explain what information	1.00		(ii)	MPEG – 4	8
		is obtained from it. 8		10	(b) W	hat are the technical advantages of using	digital
3.	(a)	Compare PAL, MTSC and SECAM colour TV system		7		chnology in television system?	5
	77	with at least four points.	₂ C	7. (-	ate the main features of HDTV.	4
	(b)	Draw a block diagram of PAL encoder. Explain its	5		(b) D:	raw a neat block diagram of MDTV tran	smitter
		working.	1 •			nd HDTV receiver and explain function	
						ock.	10
	_	OR			, is	0.75	
4.	((a))	Write a short note on 'Remote Control Unit'. 5		œ.		OR	
	(b)		* 19hJ	8.	(a) E	xplain DTH technique for TV broadcasting	ng using
	(0)	Describe how a pattern generator is useful in testing			n	eat block diagram.	7
		a TV receiver.	*		(b) D	Describe CCTV and give its applications.	7
мν	M47	635		*:			
		Contd.	•	MV	M -4763	3	Contd.
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9.	(a)	What are the features of IPTV? Explain the architecture of IPTV.	he 8
	(b)	Enlist the important specifications of mobile TV.	5
		OR	
10.	(State and explain the principle of Digital Vide Recorders. (DVR)	eo 7
	(b)	Describe Video Intercom and Video Phone System	n
		1180	6
11.	(a)	Compare Camcorders with Handycams and Digicam	ıs.
((b)	Explain colour TV digital cameras.	6
		OR	
12.	(a)	Compare the following with at least five points.	v
		Blue-ray disc and DVD,	7
	(b)	Explain working of LCD TV in detail.	6