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BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL-2014

DECE—FOURTH SEMESTER EXAMINATION

AUDIO AND VIDEO SYSTEMS

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer all questions.

- (2) Each question carries **three** marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- 1. State the need of bass and treble controls in stereo amplifier.
- 2. Brief about reflection, refraction, diffraction and absorption.
- **3.** What is MP3 format?
- **4.** Draw the picture details while scanning a line.
- 5. Distinguish between progressive scanning and interlaced scanning.
- 6. Draw the degaussing circuit of a color TV receiver.
- 7. Write the function of tuner in TV receiver.
- **8.** Mention the typical characteristics of image orthicon camera tube.
- 9. List the standards of HD TV.
- 10. Draw the block diagram of DTH.

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PART—B

Instructions : (1) Answer any **five** questions.

- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- **11.** Explain the working principle of DVD player.
- **12.** Explain the methods of sound recording and reproduction on gramophone disc.
- **13.** Sketch the composite video signal and label the parts and explain each one.

14.	(a)	List the CCIR-B standards.	3
	(b)	Write the frequency allocation of TV channels used in India.	3
	(c)	Explain frame and field frequencies.	4
15.	(a)	Draw the schematic view of a color picture tube.	4
	(b)	Explain the constructional features and working of a color picture tube.	6
16 .	(a)	Draw the block diagram of a colour TV transmitter.	5
	(b)	Draw the block diagram of PAL encoder.	5
17.		aw the block diagram of remote control TV receiver. Explain	
	the	functions of each stage.	
18.	(a)	Draw the block diagram of CA TV.	5
	(b)	Explain about CA TV.	5

2