00868

No. of Printed Pages: 4

DIPLOMA – VIEP – ELECTRONICS AND COMMUNICATION ENGINEERING (DECVI)

Term-End Examination

December, 2015

BIEL-034 : AUDIO AND VIDEO ENGINEERING

Time : 2 hours

Maximum Marks: 70

BIEL-034

Note : Attempt any five questions. Question no. 1 is compulsory.

1. Select the correct answer.

7×2=14

- (a) Which device is used for transmitting and receiving radio waves ?
 - (i) Receiver

(ii) Transmitter

(iii) Antenna

(iv) Demodulator

(b) Which of the following camera tubes uses lead oxide (PbO) for the photo conductive target plate?

(i) Vidicon

- (ii) Plumbicon
- (iii) Saticon
- (iv) Image orthicon

BIEL-034

- (c)
 - An antenna should have
 - (i) a very high SWR
 - (ii) a very small SWR
 - (iii) a moderate value of SWR
 - (iv) None of the above
- (d) Pick the odd one out.
 - (i) Vidicon Camera
 - (ii) CCD Camera
 - (iii) Plumbicon Camera
 - (iv) Saticon Camera
- (e) PAL stands for
 - (i) Phase Amplitude Line
 - (ii) Pulse Amplitude Line
 - (iii) Pulse Alternate Line
 - (iv) Phase Alternate Line
- (f) In gamma correction the _____ is stretched by the picture tube.
 - (i) black
 - (ii) gray
 - (iii) white
 - (iv) red

BIEL-034

2

- (g) A traditional cable TV network transmitts signals
 - (i) upstream

T

- (ii) downstream
- (iii) upstream and downstream
- (iv) None of the above
- 2. (a) Describe the function of Hi-Fi amplifier with the help of its block diagram.
 - (b) State the difference between stereo amplifier and mono amplifier.
- **3.** (a) Mention the advantages of fluorescent display system used in CD player.
 - (b) State the principle of gear system in CD player with diagram.
- Draw the block diagram of a monochrome TV receiver and briefly explain the operation of the receiver.
- 5. (a) Explain the PAL-D decoder with the help of its block diagram.
 - (b) What is colour burst signal ? Why and where is it added ?

BIEL-034

P.T.O.

7

7

7

7

14

7

7

3

- 6. (a) What is VSB transmission ? Describe its necessity.
 - (b) Draw and explain the block diagram of a DTH system.
- 7. Write short notes on any *four* of the following: $4 \times 3\frac{1}{2} = 14$
 - (a) Woofer
 - (b) CATV and CCTV
 - (c) Burst Pulse Blanking
 - (d) Colour Picture Tube
 - (e) Yagi-Uda Antenna
 - (f) Composite Video Signal

1,000

7

7

4