No. of Printed Pages : 2

BIEL-034

DIPLOMA – VIEP – ELECTRONICS AND COMMUNICATION ENGINEERING (DECVI)

Term-End Examination

00346

June, 2016

BIEL-034 : AUDIO AND VIDEO ENGINEERING

Time : 2 hours *Maximum Marks : 70*

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

1. Define the following : $4 \times 3\frac{1}{2} = 14$

(a) Aspect ratio

(b) Kell factor

(c) Resolution

(d) Guard band

2. (a) State and explain the necessity of crossover network in a Hi-Fi amplifier. 7

(b) Describe the operation of a Graphic equalizer with the help of its circuit diagram. 7

3. (a) State the principle of drive motors and CD lens in a CD player with a suitable diagram. 7

(b) Compare NTSC system with the PAL system. 7

4. (a) Write in detail about Automatic Gain Control (AGC) with relevant circuit diagrams. 7

(b) With a neat sketch, write in detail about Vidicon. 7

5. (a) Draw and explain the operation of a Yagi-Uda Antenna. 7

(b) Explain the schematic diagram of a modern cable TV system. 7

6. (a) Sketch a composite video signal with all details. Also state the advantages of DVD over Laser Disk. 7

(b) Give the specifications of a Dish Antenna and LNBC. 7

7. Write short notes on any ***four*** of the following : $4 \times 3\frac{1}{2} = 14$

(a) DTH

(b) Subtractive Colour Mixing

(c) TV Receiving Antennas

(d) Separation of U and V Colour Phasors

(e) PAL Encoder