Audio Video Engineering

**Course code- EJ-5G Subject code-(17537)** ---------------------------------------------------------------------------------------1) Explain graphic equalizer with diag. & write its necessity.

2) Draw & explain the circuit diag. of three way cross over network.

3) Difference between woofer, tweeter & squawker.

4) Draw & explain the block diag. of Hi-Fi amplifier & list the characteristics of it.

5) What is mean by monophonic & stereophonic amplifier.

6) Explain block diag. & operation of CD player.

7) Draw & explain the diag. of CD pick up assembly.

8) Explain control function of CD player remote transmitter.

9) Write function of following component used for CD mechanism.

a) CD lens. b) Motor

10) List TV channel allocation for band-I & band-III.

11) Define the following term

a) Aspect Ratio b) Hue c) Brightness d) Saturation

e) Image Continuity f) Contrast g) Luminance.

12) Describe composite video signal with its waveform & give its salient feature.

13) Draw & explain additive mixing.

14) CCIR B standard.

15) Why VSB is used in TV transmission? Draw its frequency response.

16) Difference between positive modulation & negative modulation.

17) Draw & explain the block diagram of PAL-D receiver.

18) Draw constructional details of vidicon camera tube & describe its working.

19) Draw & explain PIL picture tube.

20) Describe NHK MUSE system for HDTV.

21) State working principal of LCD TV with diag.

22) Draw & explain separation of U & V signal in color TV system.

23) Describe the operation of yagi-uda antenna & state its application.

24) Draw & explain the block diagram of DTH system.

25) Draw & explain the block diagram of CCTV system.

26) Draw & explain the working principal of LNBC.

27) Explain the operation of killer circuit.