



Enrolment No. _____

HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL

MID SEMESTER EXAMINATION SEPTEMBER-2016

Subject Code: 2151101

Date: 27/09/2016

Subject Name: Audio Video Systems

Sem: 5TH EC

Time: 10:00 TO 10:50

Total Marks: 20

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

QUE.1 Answer the following questions: **6**
a) Define the terms: i) Hue ii) Saturation iii) Luminance
b) Why horn type loudspeaker is called an indirect radiating type L.S?
c) Why negative modulation is preferred in T.V?
d) Why is G-Y difference signal not chosen for transmission?

QUE.2 (A) Define the terms: i) Pitch ii) Timbre iii) Threshold of hearing **3**
(B) Explain the working of a moving coil microphone. **4**

OR

(B) Sketch the composite video signal waveform and indicate the following: **4**
i) Extreme white level ii) blanking level iii) pedestal height iv) sync pulse level

QUE.3 (A) State the characteristics of a Loudspeaker. **3**
(B) Explain how VSB modulation reduces the channel bandwidth in picture transmission compared to the DSB modulation? **4**

OR

(A) Compare Conventional and Compact Discs. **3**
(B) What do you understand by interlaced scanning? Show how it reduces flicker and conserves bandwidth. **4**

***** ALL THE BEST *****