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SEAT No. :

P404

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**BE/Insem/APR-59**

**B.E. (Electronics & Telecommunication)**

**AUDIO VIDEO ENGINEERING (Elective-III (C))**

**(2012 Pattern) (Semester - II)**

**Time : 1 Hour]**

**[Max. Marks : 30**

**Instructions to the candidates :**

- 1) *Answer questions: Q.1 or Q.2, Q.3 or Q.4 and Q.5 or Q.6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Use of calculator is allowed.*
- 5) *Assume suitable data if necessary.*

**Q1) a)** Draw and explain a simplified block diagram of NTSC Encoder. **[5]**

b) Explain how (G-Y) difference signal is obtained at receiver. Why this is not chosen for transmission? **[5]**

OR

**Q2) a)** Draw the chromaticity diagram and explain its importance. **[5]**

b) Compare PAL, NTSC and SECAM system. **[5]**

**Q3) a)** Explain in detail the MAC technology. **[6]**

b) Explain advance DTV transmitter in detail. **[4]**

OR

**Q4) a)** Write short note on : **[6]**

i) Plasma display

ii) LED display

b) Explain MPEG2 process for television broadcasting. **[4]**

**P.T.O.**

- Q5)** a) Draw and explain HDTV-MAC transmitter block diagram. [5]  
b) Explain in detail commercial DTH receiver with the help of block diagram. [5]

OR

- Q6)** a) Discuss in detail, the case study for Digital Broadcasting of MARATHON. [5]  
b) With suitable diagram explain CCTV and also explain its applications. [5]

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