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Sub Code: NIC-045

Roll No. XXXXXXXXXX**B TECH****(SEM VIII) THEORY EXAMINATION 2017-18
ADVANCED DISPLAY TECHNOLOGIES & SYSTEMS****Time: 3 Hours****Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 10 = 20**

- a) What is Pattern Perception?
- b) What are the properties of light?
- c) What is inorganic semiconductor?
- d) What is Transparent Conductors?
- e) What is Vacuum Florescent Display?
- f) What is luminescent and its types?
- g) What is 3-D Volumetric Display Technology?
- h) What are the applications of Colorant Transposition Displays?
- i) What is Viewing Angle?
- j) What is Temporal Effects?

SECTION B**2. Attempt any three of the following: 10 x 3 = 30**

- a) What is Multiplex in driving display? Explain its types?
- b) What is Photolithography? Explain its different processes?
- c) Explain in detail Flexoelectro-Optic LCD?
- d) Discuss Holographic 3-D Technology with neat sketch?
- e) What is micro display and its different applications in detail?

SECTION C**3. Attempt any one part of the following: 10 x 1 = 10**

- a) Explain Graphic Controllers in detail?
- b) What is vision and perception? Explain its types and uses?

4. Attempt any one part of the following: 10 x 1 = 10

- a) Explain in detail TFT, LCD and LED?
- b) How touch screen is interfaced with computer mechanism? Explain

5. Attempt any one part of the following: 10 x 1 = 10

- a) Write the short note on Twisted Numeric and Super twisted Numeric Displays?
- b) What is OLED? Explain it and its application?

6. Attempt any one part of the following: 10 x 1 = 10

- a) Explain Autostereoscopic 3-D Technology in detail?
- b) What are the different types of mobile display available? Explain any One?

7. Attempt any one part of the following: 10 x 1 = 10

- a) Discuss the problems related to Display Technology?
- b) Discuss the Transmissive Liquid Crystal Micro display?