Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14CS2030** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MULTIMEDIA SYSTEMS AND DESIGN** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | \_\_\_\_\_\_\_\_\_\_\_ are regular objects with a high degree of irregular shape. | CO1 | 1 |
| b. | Expand CCIT. | CO1 | 1 |
| c. | What are the network standards used in Multimedia systems? | CO1 | 2 |
| d. | Write few insides about 3-D technologies? | CO1,CO2 | 2 |
| e. | Consider a photographer who needs to store all his images effectively, Suggest him which type of compression to be used and explain how it is working. | CO1,CO2 | 14 |
| (OR) | | | | |
| 2. | a. | Define Electronic messaging. | CO1 | 1 |
| b. | \_\_\_\_\_\_\_\_\_\_\_ is called Pack bits Encoding. | CO1 | 1 |
| c. | Draw Multimedia Workstation architecture. | CO2 | 2 |
| d. | What is hyper media? How it is useful to multimedia? | CO1,CO2 | 2 |
| e. | Describe a Multimedia application used in your university or work environment. And describe what activities can benefit from multimedia applications. | CO1,CO2 | 14 |
| 3. | a. | \_\_\_\_\_\_\_\_\_ is the color sensation produced in an observer due to the presence of certain wavelength or color. | CO1 | 1 |
|  | b. | \_\_\_\_\_\_\_\_\_ is the simplest and earliest of the data compression schemes developed. | CO2 | 1 |
|  | c. | Write the types of compression? | CO1 | 2 |
|  | d. | What are types of color models? | CO1 | 2 |
|  | e. | Explain the Multimedia Systems Architecture. | CO1,CO2 | 14 |
| (OR) | | | | |
| 4. | a. | \_\_\_\_\_\_\_\_\_\_\_\_ is the heart of windows for pen system. | CO1 | 1 |
|  | b. | Expand the following: NTSC . | CO1 | 1 |
|  | c. | What are the issues that affect display performance? | CO1 | 2 |
|  | d. | Define Digitizer. | CO2 | 2 |
|  | e. | i) Explain Run-length encoding with example. ii) What are the different type of multimedia Element? | CO1,CO2 | 7+7 |
| 5. | a. | The regular interval at which sampling occurs is called the \_\_\_\_\_\_\_\_\_. | CO1 | 1 |
|  | b. | The \_\_\_\_\_\_\_\_ generates the pen position and the pen status. | CO2 | 1 |
|  | c. | What are the image enhancement techniques? | CO1 | 2 |
|  | d. | Draw the components of Digital Camera. | CO2 | 2 |
|  | e. | How does an Electronic pen work? Explain its components. | CO1,CO2 | 14 |
| (OR) | | | | |
| 6. | a. | Pixels are made of\_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
|  | b. | The display driver used for a pen input under windows is \_\_\_\_\_\_\_\_\_\_\_\_\_. | CO1 | 1 |
|  | c. | Calculate the size of the dot pitch from the given specification. Active display area of the monitor (14 inch):Width 9.875 inch, height 7.125 inch and diagonal 12.25 inch. Resolution : 1024 X768. | CO2 | 2 |
|  | d. | Explain Dual buffered VGA mixing/scaling. | CO1 | 2 |
|  | e. | What are the different types of print output technologies? Explain them. | CO1,CO2 | 14 |
| 7. | a. | RAID level 2 utilizes \_\_\_\_\_\_\_\_\_ correction codes. | CO3 | 1 |
|  | b. | \_\_\_\_\_\_\_\_\_involves a closer human computer interaction where the participant may control the direction and velocity. | CO2 | 1 |
|  | c. | Write the difference between CRT monitors and Flat panel display system. | CO1 | 2 |
|  | d. | What are the types of multimedia system ? | CO2 | 2 |
|  | e. | i)Explain the different types of scanner in detail.  ii)Compare Various Video display Technology Standards. | CO1,CO2 | 7+7 |
| (OR) | | | | |
| 8. | a. | Perceive the change in the distance of the object from eye is called \_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
|  | b. | \_\_\_\_\_\_\_\_\_is defined as the time between the participant action and the associated application. | CO3 | 1 |
|  | c. | Explain Human factors. | CO2 | 2 |
|  | d. | Draw the components of Distributed multimedia system. | CO2 | 2 |
|  | e. | Explain the components of Multimedia Systems. | CO2 | 14 |
|  | | **Compulsory:** |  |  |
| 9. | a. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is essential for fast retrieval of information. | CO3 | 1 |
|  | b. | \_\_\_\_\_\_\_\_\_\_\_\_ is the example for shared workspace system. | CO2 | 1 |
|  | c. | What is Virtual reality design? | CO2 | 2 |
|  | d. | Define Workflow. | CO2 | 2 |
|  | e. | Explain the six discrete levels of RAID. | CO3 | 14 |

ALL THE BEST