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**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

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

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

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **09IT209 / 12IT212** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **MULTIMEDIA SYSTEMS AND DESIGN** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | | **Course outcome** | | **Marks** |
| **PART-A(10X1=10 MARKS)** | | | | | |
| 1. | Give two examples for static media. | | CO1 | | (1) |
| 2. | Write the four applications of multimedia. | | CO1 | | (1) |
| 3. | What is reverse compression? | | CO2 | | (1) |
| 4. | Compare addictive color model with subtractive color model. | | CO2 | | (1) |
| 5. | Define horizontal refresh rate. | | CO2 | | (1) |
| 6. | Write the types of digitizer. | | CO1 | | (1) |
| 7. | List the material used in a rewritable disk. | | CO3 | | (1) |
| 8. | What is the formula used to determine the size of the digital audio? | | CO3 | | (1) |
| 9. | Who has presented the effects of lag model? | | CO1 | | (1) |
| 10. | Mention any two examples for business workflow application. | | CO1 | | (1) |
| **PART B(5 X 3= 15 MARKS)** | | | | | | | |
| 11. | Distinguish between the terms multimedia and hypermedia. | | CO1 | (3) | | | |
| 12. | Compare symmetric compression with asymmetric compression. | | CO2 | (3) | | | |
| 13. | What are the classifications in multimedia I/O devices? | | CO3 | (3) | | | |
| 14. | Explain any one multimedia storage server. | | CO3 | (3) | | | |
| 15. | List down the featured concepts of RAID. | | CO1 | (3) | | | |
| **PART C(5 X 15= 75 MARKS)** | | | | | | |
| 16. | a. | What are the issues of functionality need to be provided in order to effectively use a wide variety of media in multimedia applications? | CO1 | (7) | | |
| b. | Explain the multimedia workstation architecture. | CO1 | (8) | | |
| (OR) | | | | | | |
| 17. | a. | Discuss various types of multimedia objects. | CO1 | (7) | | |
| b. | Explain in detail some key issues of data organization. | CO1 | (8) | | |
| 18. | Provide the description about JPEG encoding with a neat diagram. | | CO2 | (15) | | |
| (OR) | | | | | | |
| 19. | Discuss in detail the architecture of MPEG encoder. | | CO2 | (15) | | |
| 20. | a. | Explain different animation techniques. | CO1 | (7) | | |
| b. | Draw a neat diagram of a digital camera and explain how it works. | CO1 | (8) | | |
| (OR) | | | | | | |
| 21. | Explain about the following: | |  |  | | |
| a. | Charge Coupled Device (CCD). | CO3 | (5) | | |
| b. | Musical Instrument Digital Interface. | CO3 | (10) | | |
| 22. | How does hierarchical storage management route data to the lowest cost device with high performance? | | CO3 | (15) | | |
| (OR) | | | | | | |
| 23. | a. | Define cache. Elaborate on cache management. | CO3 | (7) | | |
| b. | What is RAID? Explain the various levels of RAID technology in detail. | CO3 | (8) | | |
| 24. | a. | Describe the design issues of distributed multimedia application and types of multimedia systems. | CO1 | (10) | | |
| b. | Discuss on multimedia database characteristics. | CO3 | (5) | | |
| (OR) | | | | | | |
| 25. | Enumerate virtual reality functionality provided while designing multimedia systems. | | CO1 | (15) | | |

ALL THE BEST