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

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **17CS2045** | **Duration :** | **3hrs** |
| **Sub. Name :** | **IP TV AND INTERNET VIDEO** | **Max. marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Explain the system architecture of IPTV with suitable diagram. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | Outline the characteristics of Internet Video in detail. | CO1 | 10 |
| b. | Show how IP fits between applications on the top of the networking hierarchy and physical communications on the bottom. | CO2 | 10 |
|  |  |  |  |  |
| 3. | a. | Distinguish MPEG–1, MPEG–2 and MPEG–4 video compression standards. | CO3 | 10 |
| b. | “Quality and security are important for any video delivery system”. Justify this statement based on a viewer’s experience with necessary examples. | CO5 | 10 |
| (OR) | | | | |
| 4. |  | Explain the functions of Live Streaming Servers and Advertising Servers. | CO2 | 20 |
|  |  |  |  |  |
| 5. | a. | Classify the various types of Video on demand servers. | CO2 | 10 |
| b. | Illustrate the different applications where video server is commonly used. | CO2 | 10 |
| (OR) | | | | |
| 6. |  | Explain the DSL technologies with suitable diagram. | CO6 | 20 |
|  |  |  |  |  |
| 7. |  | Define Content creation workflow. Explain it with suitable diagram. | CO2 | 20 |
| (OR) | | | | |
| 8. | a. | Summarize the vital functionalities often provided by middleware. | CO2 | 10 |
| b. | Compare and contrast IPTV and streaming. | CO4 | 10 |
|  |  |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Explain the basic functional elements and features of STB. | CO1 | 20 |