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

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**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **18CS1001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INFORMATION AND COMMUNICATION TECHNOLOGY** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART – A (20 X 1 = 20 MARKS)** | | | |
| 1. | The most important software required to use a computer is known as an *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*. | CO1 | 1 |
| 2. | Expand MICR. | CO1 | 1 |
| 3. | What is the decimal equivalent of 10010101? | CO1 | 1 |
| 4. | Audio signal, unlike text and pictures, is a continuous function of time. It is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO2 | 1 |
| 5. | A digital video camera acquires a moving picture by exposing a scene to a CCD  array and capturing an entire frame and repeat the capture \_\_\_\_\_ times a second. | CO2 | 1 |
| 6. | Expand SATA. | CO2 | 1 |
| 7. | Main memories use \_\_\_\_\_\_\_\_\_\_\_\_\_ cells. | CO2 | 1 |
| 8. | Instruction Counter is also known as \_\_\_\_\_\_\_\_\_\_\_\_\_. | CO3 | 1 |
| 9. | Expand SPEC. | CO3 | 1 |
| 10. | \_\_\_\_\_\_ are special purpose communication computers which act like a post  office receiving and sending data to various computers connected to the WAN. | CO3 | 1 |
| 11. | IPv6 provides \_\_\_\_\_\_\_\_\_\_\_ bits for addresses. | CO3 | 1 |
| 12. | \_\_\_\_\_\_\_\_\_\_\_ is a ready-made packaged program. It has a rich set of built-in functions and is easy to use. | CO4 | 1 |
| 13. | \_\_\_\_\_\_\_\_\_\_ is used to create visually pleasing display of documents on the monitor of a computer connected to the Internet. | CO4 | 1 |
| 14. | To create scenes simulating shadows cast by objects and objects hidden by other  objects, a method called \_\_\_\_\_\_\_\_\_ is used which simulate illumination of objects from different angles. | CO5 | 1 |
| 15. | Speech files use much less band width and are smaller files. They can be attached to email using software called \_\_\_\_\_\_\_\_\_\_\_\_\_\_. | CO5 | 1 |
| 16. | A system in which the encrypting and decrypting keys are the same is called a  \_\_\_\_\_\_\_\_\_\_\_\_ system. | CO5 | 1 |
| 17. | Expand BHIM. | CO5 | 1 |
| 18. | A \_\_\_\_\_\_\_ comes to your computer disguised as a useful program and tries to destroy your files. | CO5 | 1 |
| 19. | A Variation of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is called a flash memory. | CO1 | 1 |
| 20. | Digitized audio signals are converted back to continuous audio signals by  another electronic circuit known as \_\_\_\_\_\_\_\_\_\_ converter. | CO3 | 1 |

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| **PART – B (10 X 5 = 50 MARKS)**  **(Answer any 10 from the following)** | | | | |
| 21. | a. | Find the binary equivalent of 0.8125. | CO1 | 3 |
| b. | A leather belt costs Rs.125.25. What is the binary equivalent of this value when it is stored in a computer? | CO1 | 2 |
| 22. | | The licence number of a car is KA02M47. What is its ASCII code? Explain. | CO1 | 5 |
| 23. | | Explain in detail the various types of Scanners. | CO1 | 5 |
| 24. | | How much storage space is needed to store a 1000 page bound book, convert it to ASCII and correct the output in the computer’s Memory? | CO2 | 5 |
| 25. | | A RAM stores 256 MB and 16 bits are accessed in each memory read/write.  What is the size of MAR and MDR of this memory? Explain. | CO2 | 5 |
| 26. | | What are the main properties required for an archival Storage Unit? | CO2 | 5 |
| 27. | | What are the basic difference between a General Purpose and Special Purpose Micro Controller? | CO3 | 5 |
| 28. | | List out the various applications of LAN (Local Area Network). | CO3 | 5 |
| 29. | | Explain the classification of programming languages based on applications in detail. | CO3 | 5 |
| 30. | | Define Desktop Publishing. Explain the Special features of DTP. | CO4 | 5 |
| 31. | | What are the eleven major characteristics of cloud computing model? | CO5 | 5 |
| 32. | | Explain in detail the various types of information required by an Organization to manage their business. | CO5 | 5 |

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| **PART – C (2 X 15 = 30 MARKS)**  **(Answer any 2 from the following)** | | | |
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| 33. | What are the various techniques used for Compression of Images? Explain them in detail. | CO2 | 15 |
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| 34. | The characteristics of CPU are based on Specification of a CPU. Explain in detail. | CO3 | 15 |
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| 35. | Explain the concepts of Graphic Processing in detail. | CO4 | 15 |