

**First Semester FYUGP Degree Supplementary Examination  
January 2025**

**KU1MDCCAP101 - BASICS OF IT FOR ALL  
2024 Admission onwards**

Time : 1.5 hours

Maximum Marks : 50

**Section A**

Answer any 6 questions. Each carry 2 marks.

1. Explain Von Neumann model
2. Explain the difference between hardware and software with their definition and uses .
3. Name weighted and unweighted codes.
4. What is BCD code ?
5. What is assembly language?
6. What are the components of data communication?
7. What is switching?
8. Define cryptanalysis

**Section B**

Answer any 4 questions. Each carry 6 marks.

9. Explain the functions of the operating system .
10. Show the steps in converting a binary number to its equivalent gray code .
11. What is an object in the context of object oriented programming? Explain with an example
12. Define the term routing .Which layer is related to this ?Explain its types .
13. Explain TCP/IP model
14. Explain how a virus spreads in the computer system and the preventive measures to counter it?

**Section C**

Answer any 1 questions. Each carry 14 marks.

15. (a) With the help of examples differentiate between procedure oriented and object oriented programming language 7  
(b) What is system software? Bring out the difference between compiler and interpreter 7
16. (a) Explain various attacks in computer security? 7  
(b) What is Digital Signature. Name the components ,terms in Digital Signature 7

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