

**Q.P. Code – 10144**

**First Semester B.A. Degree Examination, APRIL/MAY 2019**

*(New Scheme)*

**Computer Applications**

**(SAA 920) Paper I – FUNDAMENTALS OF COMPUTERS**

*Time : 3 Hours]*

*[Max. Marks : 50*

**I. Answer ALL questions :**

**5 × 1 = 5 marks**

1. Define Computer.
2. What is an algorithm?
3. Expand EPROM.
4. Write the truth table for EX-OR gate.
5. Convert  $(10110)_2$  to decimal.

**II. Answer the following :**

**5 × 2 = 10 marks**

6. Differentiate between compiler and interpreter.
7. What is an operating system? List any two types of operating systems.
8. Write the truth table and circuit diagram of AND gate.
9. Write any four symbols of flow chart.
10. List the advantages of high level language.

**III. Answer any THREE of the following :**

**3 × 5 = 15 marks**

11. Explain the generations of computer.
12. Explain software and its types.
13. Explain ROM and its types.
14. Draw a flowchart to find the biggest of three numbers.
15. Explain Cache memory and Virtual memory.

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**IV. Answer any TWO of the following :**

**2 × 10 = 20 marks**

16. Draw the block diagram of digital computer? Explain the functions of each unit. 10
17. Write a note on Flip Flop and its types. 10
18. Explain :
- (a) Floppy Disk
  - (b) CRT display
- 5 + 5
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