

# Question Paper Code : 3019

B.A./B.Sc. (Part-I) Examination, 2017

( New Syllabus )

## COMPUTER APPLICATION

[ First Paper ]

( Computer Fundamentals & Internet )

Time : Three Hours]

[Maximum Marks : 50

**Note :** Answer **five** questions in all. Question **No.1** is **compulsory**. Besides this, attempt **one** questions from each unit.

1. Attempt **all** parts : [2×10=20]

- (a) What is microprocessor ?
- (b) Explain Bubbled OR gate.
- (c)  $(11001.1.1)_2 = (?)_{10}$
- (d) Define the term www.
- (e) What is Clock Cycle and Instruction Cycle ?

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[P.T.O.]

- (f) Write short note on timing diagram.
- (g) What do you mean by Decision table ?
- (h) Differentiate between Weighted and Non-Weighted codes.
- (i) Multiply  $(10110011)_2$  by  $(110010)_2$ .
- (j) What is OOP ?

#### UNIT - I

- 2. (a) What are peripheral devices ? Explain various peripheral devices in detail. [4]
- (b) What is flow chart ? Draw the flow chart to calculate Area / Perimeter of rectangle. [3½]
- 3. (a) How many types of softwares are there ? Explain each of them by giving examples. [4]
- (b) Describe the generation of computer programming languages in detail. [3½]

#### UNIT - II

- 4. (a) Differentiate between Gray and BCD Code, also draw the BCD and Gray Code tables. [4]

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- (b) Solve the following : [3½]

- (i) Add  $(101101)_2$ ,  $(1111001101)_2$ , and  $(1100101)_2$
- (ii) Divide  $(11001011)_2$  by  $(1011)_2$

- 5. (a) Explain Binary, Decimal, Octal and Hexadecimal number systems. [4]

- (b) Solve the following : [3½]

- (i)  $(A24C)_{16} = (?)_2$
- (ii)  $(10110101)_2 = (?)_8$

#### UNIT - III

- 6. (a) What is interrupt ? How many types of interrupts are there ? Explain each of them. [4]
- (b) Define Address Bus, Data Bus and Control Bus in detail. [3½]
- 7. (a) What are universal gates ? Explain using diagram and truth table. [4]
- (b) Explain Distributive, Associative and Commutative laws of Boolean algebra. [3½]

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[P.T.O.]

#### UNIT - IV

8. (a) What is the difference between Internet and Intranet ? Explain by giving suitable examples. [4]
- (b) Write short notes on the following : [3½]
- (i) Protocols
  - (ii) HTML
  - (iii) ISP
9. (a) Differentiate between Login and Logon ? Name atleast five web browsers. [4]
- (b) Explain the working of meta search engines. [3½]

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