

(4)

(iii) AND Gate

(iv) Instruction sets

7. (a) Give a detailed description of functionally complete gates. 4

(b) Explain the De-Morgan's Theorem. 3.5

Unit-IV

8. (a) Define and explain the terms "ISPs" and "Domain Name" 4

(b) Explain in detail the purpose of "Internet address" 3.5

9. (a) Write short notes on : 4

(i) Modems

(ii) Web browsers.

(b) Explain the working of a meta-search engine. 3.5

A

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Roll No. \_\_\_\_\_

**S-766**

B.A./B.Sc. (Part-I) (Computer Application)

Examination, 2015

(New Syllabus)

Computer Fundamentals & Internet

***Time Allowed : Three Hours ] [ Maximum Marks : 50***

Note : Answer five questions in all. Question No.

1 is compulsory. Attempt one question

from each Unit.

1. Write short answers on the following:

2 × 10 = 20

(a) Write the features of OOPs.

(b) Write an algorithm to find the greater of the two given numbers.

(c) Convert  $(10010)_2 = (?)_{10}$  and

$(110111)_2 = (?)_{16}$ .

**(2)**

- (d) Explain in brief about gray codes.
- (e) What are interrupts?
- (f) Explain NAND and NOR gates.
- (g) What is a computer network?
- (h) Write short notes on World Wide Web.
- (i) Describe in short about Telnet.
- (j) Write in brief about the K-map.

Unit-I

- 2. (a) Explain the bus structure with the help of a diagram. 3.5
- (b) Give an elaborate description of the computer peripherals. 4
- 3. (a) Write short notes on - 4
  - (i) Algorithm
  - (ii) I/O devices
  - (iii) Binary Arithmetic
  - (iv) Hexadecimal number system.
- (b) Describe the use of decision tables and pseudocodes. Write an algorithm to check the input number is even or odd. 3.5

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**(3)**

Unit-II

- 4. (a) Describe the concept of "Number Representation". 3.5
- (b) Convert the following binary numbers to Octal numbers : 4
  - (i)  $(11011)_2 = (?)_8$
  - (ii)  $(10110101)_2 = (?)_8$
- 5. (a) Describe the alphanumeric and ASCII codes. 3.5
- (b) Explain the hexadecimal number system and perform the following calculations:
  - (i)  $(549)_{10} = (?)_{16}$
  - (ii)  $(76A)_{16} = (?)_{10}$

Unit-III

- 6. (a) Describe the application of Boolean Algebra. 3.5
- (b) Explain the following: 4
  - (i) Addressing modes
  - (ii) BCD

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**P.T.O.**