

- (b) Explain the following terms.  
 (i) Scanner (ii) touch screen. 6

4. (a) Define operating system. Explain the term process management in operating system. 6  
 (b) What is meant by memory management? Explain. 6

**OR**

5. (a) Explain octal to Hex conversion and vice-versa with suitable example. 6  
 (b) Explain the concept of file management in operating system. 6
6. (a) Explain the following :-  
 (i) Search Engine  
 (ii) FTP 6  
 (b) Explain a procedure for creating E-mail using Microsoft outlook express. 6

**OR**

7. (a) Explain the following web browser with their features and functionality.  
 (i) Opera

**AR - 489**

First Semester B. Sc. (Part - I) Examination

**IS : COMPUTER APPLICATION (Vocational)**

(Fundamentals of Computer Applications)

P. Pages : 6

Time : Three Hours ]

[ Max. Marks : 80

- Note :** (1) All questions are compulsory.  
 (2) Question no. **one** carries **eight** marks and all other questions carry **twelve** marks each.  
 (3) Assume suitable data wherever necessary.

1. (a) Fill in the blanks :—  
 (1) URL stands for \_\_\_\_\_  
 (2) The process of giving initial values to variables is called \_\_\_\_\_  
 (3) The escape sequence character \_\_\_\_\_ causes the cursor to move to the next line on the screen.  
 (4) An \_\_\_\_\_ is fabricated on a tiny silicon chip. 2

(b) Select the correct alternatives and rewrite the following :-

(1) Which of the following operation of stack is used for inserting items in stack?

- (a) POP
- (b) Insert
- (c) Push
- (d) Rear

(2) Computer memory RAM contains elementary memory device known as \_\_\_\_\_

- (a) Cache memory
- (b) Flip-flops
- (c) Hard disk
- (d) None

(3) Which of the following memories must be refreshed many times per second?

- (a) Static RAM
- (b) Dynamic RAM
- (c) EPROM
- (d) ROM

(4) Which of the following is not web browser ?

- (a) Google
- (b) Opera
- (c) Internet Explorer
- (d) Mozilla Firefox

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(c) Answer the following in **one** sentence each.

(1) What is stack ?

(2) What is meant by searching in data structure ?

(3) What is meant by loop in 'C' language ?

(4) What is booting process ?

4

2. (a) What is meant by volatile memory ? Explain the term ROM and PROM.

6

(b) Explain the following terms :

(i) Light Pen

(ii) Modem

6

**OR**

3. (a) What is the use of cache memory ? Explain secondary storage devices in brief.

6

- (ii) Internet Explorer 6
- (b) Describe IPV4 and IPV6 protocols in brief. 6
8. (a) What is meant by data structure ? Explain various operations perform on data structure. 6
- (b) Write an algorithm to find the smallest number in between two given numbers. 6

**OR**

9. (a) Explain the following terms –
- (i) Compilation and execution.
- (ii) Push and Pop operation in stack. 6
- (b) What is meant by searching ? Explain the binary search with suitable example. 6
10. (a) What is meant by type conversion? Explain implicit type conversion with suitable example. 6
- (b) Explain increment and decrement operators. 6

**OR**

11. (a) What is meant by variable ? Explain the various rules for forming variable names. 6
- (b) Explain the following :-
- (i) Relational operators.
- (ii) Bitwise operators. 6
12. (a) Explain formatted I/O and unformatted I/O statement in brief. 6
- (b) Write a program to find sum of digits of given number. 6

**OR**

13. (a) Explain the following :
- (i) getch ( )
- (ii) putch ( )
- (iii) gets ( ) 6
- (b) Write a program to calculate the area of shapes (Rectangle and square) using switch statement. 6

