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## 4 SEM TDC COSK1 (II A)

2013

(May)

## COMPUTER SKILLS—II (A)

(For B.Sc. General Programme)

Course: 401

( C and Shell Programming Basics )

Full Marks: 48 Pass Marks: 19

Time: 2 hours

The figures in the margin indicate full marks for the questions

**1.** Choose the correct option :  $1 \times 6 = 6$ 

- (a) A/An is a data name that may be used to store a data value.
  - (i) identifier
  - (ii) variable
  - (iii) keyword
  - (iv) token

P13-2500/1250

(Turn Over)

(b) If x = 5, y = 2 and x and y are integers, what will be the output of the following statement?

printf ("%d", x/y);

(i) 2

(ii) 2.5

(iii) 3

(iv) Compiler error

(c) Which of the following is not a parameter in the FOR loop?

(i) Initialization

(ii) Test condition

(iii) Increment

(iv) Instantiation

(d) If x is a float data type, what is the output of the following statement? sizeof (x);

(i) 2

(ii) 4

(iii) 8

(iv) Compiler error

3-2500/1250

(Continued)

(e) Which of the following operations cannot be done on a pointer variable?

(i) An integer can be added to a pointer

(ii) A pointer variable can be initialized with NULL

(iii) An integer can be subtracted from a pointer

(iv) Two pointer variables can be added

(f) Which process is the first process to be loaded and have a PID 0?

(i) Init

(ii) Init tab

(iii) Kernel

(iv) Shell

2. Answer the following questions:

2×6=12

(a) What are constants and literals?

(b) Write a program to read a string and print out the length of the string using an appropriate string function.

(c) Distinguish between global and local variables.

(d) What is a structure? What is its advantage?

P13-2500/1250

(Turn Over)

| (e) What is a shell? Name two shells.   |
|---|
| (e) What is a shear (f) Write two characteristics of an array.  |
| $5 \times 6 = 30$   |
| <ul> <li>(a) What is the use of continue? White a program to evaluate the expression a program to evaluate the expression y = x<sup>n</sup>, where n is a non-negative 1+4=5 integer.</li> <li>(b) What is the use of gets ()? Write a program to find the greatest number</li> </ul> |
| (c) Write a program using function to find the factorial of a number.   |
| (d) Define a structure to read in the marks of three subjects for ten students and print the same with their total.   |
| (e) Write a program to create a file containing the text, We love computers'. 5   |
| (f) Write a shell program to copy a file from directory c: to directory d: if the file exists, else generate an error message. 5  |
| (g) Write a program to read the total marks of 100 students and count the number of students in the following range and   |
| print the grades : 5  100—70—A grade 50—69—B grade 30—49—C grade  |

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