Total No. of Questions-8] Seat [4957]-1077

[Total No. of Printed Pages-3

OBJECT ORIENTED AND MULTICORE PROGRAMMING S.E. (Computer) (II Semester) EXAMINATION, 2016 (2012 PATTERN)

Time: Two Hours N.B. :-(i) Neat diagrams must be drawn wherever necessary. Maximum Marks: 50

Figures to the right indicate full marks.

(iii) Use of Calculator is allowed.

Assume suitable data, if necessary

(a) Write a short note on

[6]

Virtual destructor. Reference variable with example.

(6) following: Write a short note on types of inheritance with respect to [6]

Single

Multiple

(iii) Hierarchical.

(a) Explain array of objects with example

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(6) user should be able to print v3's ax and ay values to 10 and 9 resp. (3, 4) and v2 (7, 5). After performing v3 = v1 + v2; and direction (both int). Create 3 vectors v1, v2, v3 with v1 overloading. Vector consists of 2 attributes ax, ay for magnitude Write a C++ program for vector addition using operator

> ဗ (a) A warehouse management system requires taking user input and displaying items which are present. Use any STL (vector, list, etc) to implement the system. Item consist of 3 attributes

(b) Explain system processes and user processes C++ program to accept and display items [6] 6

(name, code both strings and price in float). Write menu driven

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(a) Write a short note on following with the help of examples : . 6

Multiple exception handling

Namespaces.

6 Create child processes using posix_spawn() function. Use object All n child processes will execute the ps utility, which resides +ve integer given by user) and display their pid's on console. driven C++ program to create n processes (where n is any oriented approach for process management. Write menu in "/bin/ps". [6]

(a) Differentiate between threads and processes

[7]

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(b)

Write a detailed note on termination of threads [6]

6 (a) What are the similarities between threads and processes? [6]

6 Explain architecture of thread with the help of diagram. [7]

[4957]-1077

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(6)		(a)	(c)	(6)	(a)
(iii) Delegation model for threaded application.Explain PRAM model used for synchronization.	(ii) Basic semaphore operations with P() and V()	Explain following:	nchronization ?	Write a short note on IPC mechanism using: (i) Files	ence of an object? Explain persistence w
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[4]