

15. a) Write notes on character streams and byte classes in Java.

b) Discuss briefly about Java I/O classes.

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13. a) Explain the principle of operation of a dc motor. 6
b) A 240V DC shunt motor takes an input of 23kW. The armature and field resistances are 0.2Ω and 125Ω respectively. Neglecting stray and friction losses, determine the efficiency. 4
14. Describe the construction and explain the principle of operation of a 3- ϕ induction motor.
15. Explain the principle and operation of a brush less DC motor.
16. Explain open circuit and short circuit tests on a transformer and also explain how can you find efficiency and regulation from these tests.
17. Write a short notes on the following :
a) Energy stored in inductance. 3
b) Regulation of transformer. 3
c) Split phase motor. 4

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Code No. : 5439/N

FACULTY OF ENGINEERING
B.E. 2/4 (CSE) II Semester (New) (Main) Examination, May/June 2012
OBJECT ORIENTED PROGRAMMING USING JAVA

Time : 3 Hours

[Max. Marks : 75]

Note: Answer all questions from Part A.
Answer any five questions from Part B.

PART – A

(25 Marks)

1. Define object oriented development. 3
2. What is a package ? 2
3. What are the different ways of defining constants in Java ? 2
4. Differentiate string and string buffer. 3
5. What are iterators ? 2
6. What is wrapper class ? 3
7. List the layout managers. 3
8. Differentiate label and test field. 2
9. List the byte stream classes. 3
10. What is serialization ? 2

PART – B

(50 Marks)

11. a) What is type conversion and casting ? Explain with example. 5
b) What is an interface ? Give example. 5
12. a) What is synchronisation ? Explain with example. 5
b) Write a program to create and use user defined exception. 5

(This paper contains 2 pages)

1

P.T.O.

Hyderabad - 500 051
Guru Gobind Singh Institute of Engineering & Technology

Code No. : 6210

FACULTY OF ENGINEERING
B.E. 2/4 (CSE) II Semester (Main) Examination, June 2010
OBJECT ORIENTED PROGRAMMING USING JAVA

Time: 3 Hours

[Max. Marks : 75]

Note : Answer all questions from Part – A. Answer any five

PART – A		25 Marks
1. List control statements with simple example.		3
2. What is a class ?		2
3. Write a simple program for reading a file.		3
4. Explain printwriter class with an simple example.		2
5. Explain about string tokenizer.		2
6. Explain about Bitset and Timer.		3
7. List the methods in Inputstream .		3
8. List the methods in OutputStream.		2
9. What is an frame ?		2
10. Explain the life cycle of an applet.		3

PART – B		50 Marks
11. Explain the concept of inheritance and give examples on each type of inheritance.		
12. Write a program that shows three methods that exit in various ways, none without executing their finally clauses.		

(This paper contains 2 pages)

1

P.T.O.

Code No.: 211/N

FACULTY OF ENGINEERING
B.E. II/IV (CSE) II Semester (Supplementary) Examination, December 2008
OPERATING SYSTEM

Time : 3 Hours] [Max. Marks : 75

Answer all questions of Part A.
Answer any five questions from Part B.

Part A – (Marks : 25) *VASAVI LIBRARY*

- What can be the various states of a process ?
- What can be the different parameters to define a multilevel feedback queue scheduler?
- Under what circumstances do page faults occur?
- What is a Free – space list? What are the different approaches to implement it.
- What is a Semaphore ? Where can it be used ?
- What is a Resource – Allocation Graph? Where can it be used?
- With regard to Disk scheduling, define seek time, rotational latency.
- How does DMA increase system concurrency?
- What are the aims of the central conflict resolution mechanism provided by LINUX system?
- What are the design principles of the WindowsXP system?

Part B – (Marks : $5 \times 10 = 50$)

- Describe the actions taken by a Kernel to switch context between processes.
- Explain the criteria for comparing CPU scheduling algorithms.
- Explain the "Segmentation with paging" scheme of memory management.
- What are the advantages and disadvantages of contiguous, linked and indexed allocation schemes of disk space.
- Give an algorithm to solve the readers – writers problem using semaphores.
- What are various schemes for recovery from deadlocks ? Explain.

[P.T.O.]

Code No.: 5239/O

FACULTY OF ENGINEERING
B.E. 2/4 (CSE) II Semester (Old) Examination, May/June 2012
DATA COMMUNICATIONS

Time: 3 Hours] [Max. Marks : 75

Note: Answer all questions of Part A. Answer any five questions from Part B.

PART – A 25

- What is a protocol ?
- Define Manchester and differential Manchester encoding.
- What is interfacing ?
- What is a parity check ?
- What is congestion ?
- What is the use of AAL protocol ?
- Compare Bus topology with star topology.
- What is Ad-HOC Networking ?
- Define FDDI.

10. What are the advantages of CSMA/CD over CSMA ?

PART – B

3

11. What are the transmission impairments ? Explain all of them.

50

12. Write a notes on :

10

- a) Guided transmission media.
- b) Sliding window protocol.

5

- b) Sliding window protocol.

5

(This paper contains 2 pages)

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