Total No. of Questions : 10]

SEAT No. :

P2331

[Total No. of Pages : 2

[5254]-666
B.E. (Computer Engineering)
ADVANCED COMPUTER PROGRAMMING
(2012 Pattern) (Elective - I)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***

Q1) a) Explain with example a message - passing services in distributed programming. **[5]**

b) Explain simple lock and distributed lock using time stamps. **[5]**

OR

Q2) a) Write short note on: **[5]**

i) A single - copy distributed shared memory.

ii) A multi-copy distributed shared memory.

b) What is bounded buffer? How semaphores are useful in bounded buffer. **[5]**

Q3) a) Explain with examples autoboxing and unboxing. Where and how Java reflection API is used. **[5]**

b) What are the difference between Hashmap and Hashtable? Also brief on Java utility classes. **[5]**

OR

Q4) a) Why list - Iterator has added () method but Iterator doesn't What is the difference between list and set in Java. **[5]**

b) What is Navigable map in Java? Waht is the benefit over map? **[5]**

Q5) a) Explain the use of services in cloud based environment. **[9]**

b) Write a short notes on: **[8]**

i) RMI

ii) Soap

iii) Servlet

iv) EJB

P.T.O.

OR

Q6) a) Explain in detail Java message service and what are the advantages of JMS? **[9]**

b) Write a short note on HTML and Java script programming. **[8]**

Q7) a) Explain with example the implementation of JDBC processes with mongo DB. **[8]**

b) Write a short note on tag based approach in web programming. **[8]**

OR

Q8) a) Write a short note on SNA. Also Write the difference between parallel & distributed systems. **[8]**

b) i) What are the advantages of Hadoop over RDBMS.

ii) Write short notes on:

A) HDFS Daemons.

B) Hadoop YARN. **[8]**

Q9) a) Explain the execution modes of pig Also explain word count example using pig. **[8]**

b) Explain searching and sorting examples in hadoop using Map Reduce. **[9]**

OR

Q10)a) Write a short notes on: **[8]**

i) Map Reduce Daemons.

ii) Concept of mapper.

iii) Reducer

iv) Combiner

b) Explain with examples data types and complex data types in pig. **[9]**