

Time: 3 hours

Question Paper consists of FIVE units, each carrying 14 marks
Each unit has TWO questions; either of them should be answered
All parts of a question must be answered at one place

- 1.a) Explain about applications of Object Oriented Programming. (7M)
b) Explain in detail about JAVA virtual machine. (7M)
(OR)
1.c) Discuss in detail variables, identifiers and literals in JAVA. (7M)
d) Write a java program to find the given integer is a palindrome or not. (7M)
2.a) Write a java program to sort an array of elements. (7M)
b) Explain about nested classes with an example. (7M)
(OR)
2.c) Illustrate the use of garbage collector. (7M)
d) Explain the importance of class and object. (7M)
3.a) Write java program to illustrate multiple inheritance. (7M)
b) What is the use of super keyword give an example. (7M)
(OR)
3.c) What is an exception? What are the keywords used for exception handling? Explain. (7M)
d) What is the importance of CLASSPATH?. (7M)
4.a) Explain in detail about thread synchronization. (7M)
b) Write a java program to illustrate thread priorities. (7M)
(OR)
4.c) Explain about thread life cycle. (7M)
d) Write a java program to illustrate the use of random access files.. (7M)
5.a) Discuss about AWT class hierarchy. (7M)
b) Write a java program to create choice box, list boxes. (7M)
(OR)
5.c) Write a JAVA program to create SCROLLBAR. (7M)
d) What is a Layout manager? Explain in brief about various layout managers supported by JAVA. (7M)

Q13
Paper changed because
of model paper created
R1
R1/R2