

RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

B.A./B.Sc. FOURTH SEMESTER EXAMINATION, AUGUST 2021

SECOND YEAR [BATCH 2019-22]

COMPUTER SCIENCE (HONOURS)

PAPER : VIII [CC8]

Date : 07/08/2021

Time : 11 am – 1 pm

Full Marks : 50

Answer **any five** of the following questions:

[5×10]

1. a) Explain usage of the following keywords in Java.
i) super, ii) this, iii) final (2×3)
b) Demonstrate the working of nested try block with suitable example. (4)
2. a) What are the benefits of using package? How we can create and use a package in Java? Explain with an example. (2+4)
b) Differentiate between error and exception. (2)
c) Which built in Java package is automatically called? Explain any one method of this package. (1+1)
3. a) Define event, event source and event listener with example. (2.5×3)
b) Explain how delegation model works. (2.5)
4. a) Discuss various ways to resolve thread synchronization problem in multithreaded environment in Java with example. (6)
b) What is layout manager? What is the default layout manager in AWT? (1+1)
c) What is the need of abstract class in Java? (2)
5. a) What is JDBC? Explain how JDBC can be used to access database with example. (2+5)
b) Write down the differences between method overloading and method overriding with example. (3)
6. a) AWT components are having few challenges/disadvantages. List them. Are there any other components available which can handle these challenges/disadvantages? Discuss how that components are better than AWT components. (2+1+3)
b) Explain the following terms with example in Java.
Anonymous inner class, wrapper class. (2+2)
7. a) Differentiate between the followings:
i) List box and Combo box
ii) Throw and Throws
iii) String and StringBuffer (3×2)
b) How can we extend more than one class in Java? Explain with example. (4)

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