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**Question Paper Code: 54202**

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fourth Semester

Computer Science and Engineering

15UCS402 - JAVA PROGRAMMING

(Regulation 2015)

(Common to Information Technology)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

**(Answer any six of the following questions)**

- \_\_\_\_\_ is a technical definition of the language that includes the syntax and semantics of the Java programming language. CO1- R  
(a) Java language specification    (b) Java API    (c) Java JDK    (d) Java IDE
- Which method is used for garbage collection of an object? CO1- R  
(a) finalize()    (b) new()    (c) main()    (d) void()
- Which of these access specifiers can be used for an interface? CO2- R  
(a) Public    (b) Protected    (c) private    (d) All of the above
- Which of this keyword can be used in subclass to call the constructor of superclass? CO2- R  
(a) super    (b) this    (c) extent    (d) extends
- When Exceptions in Java does arise in code sequence? CO3- R  
(a) Run time    (b) compile time  
(c) can occur any time    (d) None of the mentioned
- Which of the following handle the exception when catch is not used? CO3- R  
(a) finally    (b) throw handler  
(c) default handler    (d) java run time systems

- 7 Which of these is an incorrect Statement? CO4- R
- (a) It is necessary to use new operator to initialize an array
- (b) Array can be initialized using comma separated expressions surrounded by curly braces
- (c) Array can be initialized when they are declared
- (d) None of the mentioned
8. Which of these can be used to fully abstract a class from its implementation? CO4- R
- (a) Objects                      (b) Packages                      (c) Interfaces                      (d) None
9. The method to receive and process the event is implemented by, CO5 R
- (a) Event Source                      (b) Event Listener                      (c) Both a and b                      (d) None of the above
10. Which of these methods can be used to obtain the reference to the container that generated a Container Event? CO5- R
- (a) getContainer()                      (b) getContainerCommand()
- (c) getActionEvent()                      (d) getContainerEvent()

PART – B (3 x 8= 24 Marks)

**(Answer any three of the following questions)**

11. Write a java program to display the Fibonacci series CO1- App (8)
12. Develop an abstract Reservation class which has Reserve abstract method. Implement Reserve method in the sub-classes Reserve Train and Reserve Bus CO2- U (8)
13. Explain exception handling mechanism in Java with suitable examples. CO3- U (8)
14. Explain in detail about the collection classes with suitable examples. CO4- U (8)
15. Write a program that creates a window entitled “File Copier”. It contains one button saying “Choose a file to copy”. When the button is clicked, an open file chooser dialog appears. If a file is selected, a save file chooser dialog appears that allows the user to specify the name of the file. CO5- App (8)