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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program Name: B.Tech (EIE) IOT
Course Name : OOPS Through Java
Course Code : CSEG319
No. of page/s: 2

Semester – III
Max. Marks : 100
Duration : 3 Hrs

Note: All questions are compulsory.
Assume appropriate data as and where necessary

SECTION - A

5*4=20 Marks

1. Explain Java Memory Model?
2. Explain the concept of inner class with example?
3. A) Which of the following may be part of a class definition? Options are
a. instance variables b. instance methods c. constructors d. all of the above
B) The implicit return type of a constructor is
a. void b. Class object in which it is defined c. There is no return type d. None
4. Write java code to explain the following methods:
a) String charAt() b) String compareTo()
5. Explain constructor and state different types of constructors?

SECTION B

4*10=40Marks

6. What is exception and error? State the difference between checked and unchecked exception?
(5+5)
7. Why String objects are immutable? Discuss the differences between overloading and overriding?
(4+6)

8. a) Explain wrapper class? State all the wrapper classes? (5+5)
b) Write a program to demonstrate polymorphism of two methods add and subtract?
9. What is thread in java and explain thread life cycle? (5+5)

SECTION C

2*20=40 Marks

10. (a) What is JDBC? Explain all JDBC drivers in detail?
(b) Also write their advantages and disadvantages (5+15+5)
11. Explain IO streams with pictorial representation and state at least two classes each for input and output of each category? Write a Program to read from a file using BufferedReader class? (12+8)

