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**Question Paper Code: 59830**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Elective

Information Technology

15UIT930- PYTHON PROGRAMMING

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. What is the output of the program? CO1- R  
a = 10  
b = "Hello"  
c = a+b  
print c  
(a) Syntax Error                      (b) Runtime Error                      (c) 10Hello                      (d) 10 Hello
2. What is the output of the following? CO2 -R  
X=['ab','c,d']  
Print(map(len, X))  
(a) [ab,cd]                      (b) ['ab', 'cd']                      (c) [2,2]                      (d) None of the Mentioned
3. What is Instantiation in OOP terminologies CO3 -R  
(a) Deleting an instance of a class                      (b) Modifying an instance of a class  
(c) Copying an instance of a class                      (d) Creating an instance of a class
4. Which pair returns the boolean when it is called CO4 -R  
(a) closed and softspace                      (b) closed and open  
(c) mode and closed                      (d) softspace and mode

5. How do you create an event loop? CO5- R
- (a) Window.loop() (b) Window.main()
- (c) Window.mainloop() (d) Window.eventloop()

PART – B (5 x 3= 15 Marks)

6. Write a python program to display which letters are present in both the string? CO1 -R
7. What is meant by Anonymous function CO2- R
8. Differentiate bound method invocation and unbound method invocation CO3- R
9. Write a program to display the content of the file “example.txt” line by line? CO4- R
10. Describe about SMTPPLIP CO5- R

PART – C (5 x 16= 80Marks)

11. (a) The finance department of a company wants to calculate the monthly net pay of its employee by finding income tax to be paid and the net salary after the income tax detection. The employee should pay income tax if his monthly gross salary more than Rs. 10000 and the percentage of income tax should be considered as 20% of the gross salary. Display the employee id, basic pay, allowances, gross pay, income tax and net pay. CO1 -App (16)
- Or
- (b) (i) Write a Python program to find the first n prime numbers CO1 -App (8)
- (ii) Create a program to find the sum of the digits of the given number. CO1 -App (8)
12. (a) (i) Write a program to display the even number in the list using lambda. CO2 -App (6)
- (ii) Create a program to differentiate mutable and immutable data type with respect to argument passing?( CO2 -App (10)
- Or
- (b) (i) Illustrate a program to produce 5 random numbers using generator CO2- Ana (8)
- (ii) Write a python program for division of two numbers using except clause with no exception statement CO2 -Ana (8)
13. (a) (i) Analyze a code with proper exception handling and without exception handling and conclude a scenario where exception handling is not necessary. CO3- App (16)

Or

(b) Create a Library management system using OOPS concepts CO3 -Ana (16)

14. (a) Explain socket programming in python with a sample code to send an email. CO4- App (16)

Or

(b) Demonstrate a employee database with the attributes emp id,emp name, address and salary in python platform. CO4 -App (16)

15. (a) Summarize an algorithm to copy contents of a file to another with a python program. CO5 -Ana (16)

Or

(b) Explain the methods can be involved in the connection between server and client with suitable program. CO5- App (16)

