GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Fourth Semester – Regular) Examinations, June – 2021

BPCCS4010 – FUNDAMENTALS OF PYTHON PROGRAMMING

(CSE & CST)

Time: 2 hrs   Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)   **(1 x 10 = 10 Marks)**

Q.1. Answer *ALL* questions

a. In which language is Python written?

(i)	English	(ii)	PHP
(iii)	C	(iv)	All the above

b. Which one of the following is the correct extension of the Python file?

(i)	.py	(ii)	.python
(iii)	.p	(iv)	None of the above

c. Which of the following declarations is incorrect in python language?

(i)	xyzp = 5,000,000	(ii)	x y z p = 5000 6000 7000 8000
(iii)	x,y,z,p = 5000, 6000, 7000, 8000	(iv)	x_y_z_p = 5,000,000

d. Which of the following operators is the correct option for power(ab)?

(i)	a ^ b	(ii)	a**b
(iii)	a ^ ^ b	(iv)	a ^ * b

e. Study the following statement:

>>>"a"+"bc"

What will be the output of this statement?

(i)	a+bc	(ii)	abc
(iii)	a bc	(iv)	a

f. Command to make thread sleep?

(i)	Thread.Sleep	(ii)	Thread_Sleep
(iii)	ThreadSleep	(iv)	Threadsleep

g. What does the <readlines()> method returns?

(i)	Str	(ii)	A list of lines
(iii)	A list of single characters	(iv)	List of integers

h. When will the else part of try-except-else be executed?

(i)	always	(ii)	when an exception occurs
(iii)	when no exception occurs	(iv)	when an exception occurs in to except block

i. Which keyword is used to fetch the data from the table in database ?

(i)	select	(ii)	fetch
(iii)	raw	(iv)	all the above

j. Expand CGI

(i)	Computer General Interface	(ii)	Common General Interface
(iii)	Common Gateway Interface	(iv)	Computer Gateway Interface

PART – B: (Short Answer Questions)   **(2 x 5 = 10 Marks)**

Q.2. Answer *ALL* questions

a.   Differentiate Script mode and interactive mode?

b.   Explain while loop in python with example.

c.   What is constructor in python with example?

d.   List few exceptions in Python with an example.

e.   What is thread synchronization in Python?

PART – C: (Long Answer Questions)   **(6 x 5 = 30 Marks)**

Answer *ANY FIVE* questions   Marks

3.   Explain in detail about two modes of programming in python.   (6)

4.   Write a program to calculate factorial of a given number using function   (6)

5.   Write a program that prints out the first n rows of Pascal's triangle   (6)

6.   Brief out in-built functions of string, list manipulation and dictionary manipulation.   (6)

7.   Discuss about exception handling using python.   (6)

8.   Write a program to raise an exception when the user input is negative.   (6)

9.   Explain in detail about SQL database connections using python   (6)

10. Write a program that asks the user to input customer information, call writetofile   (6)
     method to write data to the file and call getall method to retrieve customer
     information from file

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