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Student University Roll No.: | Printed Pages:

School of Engineering

1st Sessional Examination, II Semester (AS: 2023-24)

B. Tech: CS(1K-1L),CSEAI

Year: 1st **Semester: II**

Course Title: Programming Concepts with Python | **M.M.: 30**

Course Code: NCS4201 **[SET-A]** | **Time: 1 hr**

Instructions if any: Read the question Carefully.

	SECTION 'A' **Q.N.1. Attempt all parts of the following:**	**Course Objective**	**Marks**
a)	X="25" and Y="15". What will be the output of (X+Y)?	**CO2**	**1**
b)	What are the data types in python?	**CO1**	**1**
c)	If a,b,c=3,5,10 evaluate the expression a+b**2*c.	**CO2**	**1**
d)	V=1.50, X=1.25, Y=0.25, Z=X+Y What will be the output of print(Z==V)?	**CO2**	**1**
e)	What is variable and how can we check the type of x (assume x is any variable)?	**CO1**	**1**
	SECTION 'B' **Q.N.2. Attempt any two parts of the following:**	**Course Objective**	**Marks**
a)	Explain Main Purpose of comparison operator with example.	**CO1**	**7.5**
b)	Write a program to check whether the entered number is divisible by 2 or 5, divisible by both or not divisible by any of them.	**CO2**	**7.5**
c)	Write a program to print the greatest no. among 3 numbers by using nested if statement.	**CO2**	**7.5**
d)	Explain python and its features. What is typecasting and its type?	**CO1**	**7.5**

	SECTION 'C' **Q.N.3. Attempt any one part of the following**	**Course Objective**	**Marks**
a)	Write a program to print the grade of student according to their overall percentage (marks of 5 subjects and percentage=Average*100)	**CO2**	**10**

% Range	Grade
90-100	A+
80-89	A
70-79	B+
60-69	B
50-59	C
<50	FAIL

b)	Explain the flow of python program execution with diagram.	**CO1**	**10**
c)	Explain different types of conditional statement with their syntax and flow chart.	**CO1**	**10**

Table 1: Mapping between Cos and questions

(Number of Cos may vary from course to course)

Cos	Questions Numbers	Total Marks
CO1	1(b), 1(e), 2(a), 2(d), 3(b), 3(c)	37
CO2	1(a), 1(c), 1(d), 2(b), 2(c), 3(a)	28

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