

Daffodil International University Faculty of Science & Information Technology Final Examination, Spring 2023 Course Code: CSE233

Course Title: Object Oriented Programming II Level: L2 Term: T1,T2 Batch: 59 & 60

Time: 2:00 Hrs Marks: 40

Answer <u>ALL</u> Questions [The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

a)	Define Object Oriented Programming and the main features of OOP in python with proper examples.		CO3
b)	Create built-in and user-defined polymorphism with Python programming language.		
2.	Develop the functionalities given below: Identify all the attributes and methods. Now you have to build ba class and subclass from the UML with those attributes and methods. Develop an appropriate OOP method where authority decides to wair 20% of the tuition fee if the student's CGPA is over 3.5 and 25% tuition fee if the student's CGPA is over 3.75. Display their tuition fafter waiver using your method. Illustrate which methods have overloading and overriding relations in	se ve of	соз
3.	Analyze the pseudo code given below. If there is any error, rephrase it so that the compiler runs. You can't change arithmetic operations or any argument. number = 22 divider = 0 result = number/divider		CO2
	Ĺ	with proper examples. Create built-in and user-defined polymorphism with Python programmin language. Student Management + name: string + idt. Int + course Info (): void + get Student info (): void + result (): void + result (): void + result (): void - Exam Controller #CGPA: Int - duration: real - result (): void - Exam details(): void + Exam details(): void + Exam details(): void + Exam details(): void + course taken (): void + course taken (): void + Exam details(): void + Exam details(): void + course taken (): void + Exam details(): void + Exam details(): void + course taken (): void + Exam details(): void	with proper examples. Create built-in and user-defined polymorphism with Python programming language. Student Manaeement + name: String + idi: Int + nemal: String + get Student Info (): void + exam info (): void + exa

4. Construct a 2D array using a 4X3 matrix where, first to 30 containing the same distance. Identify the followir i. Identify the shape of diagonal, above and below diagonii. Construct a 3X4 matrix from the previous one and variance values of 2nd to 4th column. iii. Describe the difference between a numpy array memory or can not access.	ng questions. onal values. d identify mean, max,	COI
--	--	-----