Reg. No.: Name :



Mid-Term Examinations – November 2021

Programme	:	BTech	Semester	:	Fall 2021-22
Course		Introduction to Problem Solving and Programming	Code	:	CSE1021
Faculty	:	Dr. Vikas Panthi	Slot/ Class No.	:	A11+A12+A13/0078
Time	:	1 ½ hours	Max. Marks	:	50

Answer all the Questions

Q.No.	Sub. Sec.	Question Description					
1		Design the algorithm and pseudo code to advise the user student as to which course he/she is eligible for admission on the basis of marks/grades in the following courses:					
		Full Time Courses	Minimum Grades				
		Science, Mathematics,	A (or marks 80% and above)	10			
		Economics		10			
		Social Sciences	B (or marks 65% and above)				
		Languages	C (or marks 50% and above)				
		Also, draw the flow chart of yo	•				
2		a) Draw flow chart	he given number is prime number or not.				
		,	 tions required to compute your algorithm.	40			
		· · · · · · · · · · · · · · · · · · ·	ase, Average Case and Worst Case.	10			
		c) Give the Best Co	use, riverage case and worst case.				
		Code a mythou mus anom for list	monimulation				
3		Code a python program for list	-				
		a) To add new elements to the end of the listb) To reverse elements in the list					
		c) To display same list elements multiple times d) To concatenate two list.					
		,	nts in the list in ascending order.				
4	(a)		that can be performed on a tuple and dictionary	_			
4	(a)	(minimum 5) with real time cas	<u> </u>	5			
	(b)	Explain in detail about the varie	ous operators in python with suitable case study.	5			
	(0)	Explain about loop control state	ement(break, continue, pass)	5			
5		Convert the following numbers	from base 10 to base 16-				
		(a) (2020) (b)	(2020 65625)				
		(a) $(2020)_{10}$ (b)		10			
		Convert the following numbers	from base 10 to base 8-	10			
		(c) $(1032)_{10}$ (d)	$(1032.6875)_{10}$				