Shahjalal University of Science and Technology 4th Year 1st Semester BMB-421, Cell Biology Term Test- 2

Time- 1hr Full marks- 10

•	X. Write the following statements true or false. If false write the correct statement.	0.5×6=	=3
	a) Temperature sensitive cdc mutant cannot pass the G1 phase which implies there normal gene product is required to get the cell past this point.	is a t	he
	b) The cell cycle checkpoints generally operate through positive intracellular system.		
	c) Sister chromatid separation is triggered by a Ubiquitin dependent degradation mechanic	ism.	
	d) Sex is not absolutely necessary for reproduction.		
	e) Strong autocrine signaling not necessary for a group of cell to respond coordinately.		
	f) The concentration of Ca^{2+} in the cytosol is kept high by pumping Ca^{2+} in the mitochondria.	ER aı	nd
	2. How cAMP activates PKA?		2
	3. 'Different cells can respond differently to the same extracellular signal molecule'-		2
	explain with example.		
	4. What will happen if there is no machinery to start DNA replication once per cycle?		1
	5. What is your opinion- higher organism uses mejotic division for gamete production?		2