

Shahjalal University of Science and Technology 4th Year 1st Semester BMB-426, Cell Biology and Cell Signaling Term Test- 1

Time- 1hr Full marks- 10

| • | 1. Write the following statements true or false. If false write the correct statement. | .5×6=3 |
|---|---|----------|
| | a) Microtubules are much more rigid then actin filament because of their organization. | |
| | b) When the rate of addition of subunits to a growing filament is slower, a cap of subunbound nucleotide is formed. This is called ATP or GTP caps. | its with |
| | c) Vimentine like Intermediate filaments are found in epithelial cells and their derivatives | |
| | d) Both microtubule depolymerizing agent such as Vinblastine and microtubule polymagent like taxol are used in cancer treatment. | ierizing |
| | e) Thymosin and Profilin are two actin binding protein which can both bind to a single actin monomer at a time. | |
| | f) Motor proteins generate force for movement by coupling ATP hydrolysis to conform changes. | national |
| | 2. Write about the structural arrangements of Cillia and Flagella. | 1.5 |
| | 7. Name the four actin-cross-linking proteins. | 1 |
| (| 4. Write about the role of following proteins: a) Map | 3 |
| | b) Titin | |
| | c) Stathmin | |
| | 5. Write about γ-TuRC. | 5 |