

**B. Sc. Semester-III (Honours) Examinations-2020**  
**Subject- Microbiology**

**Paper- CC-6 (CELL BIOLOGY) (Theory)**

**F.M.: 40**

**Time- 2 hrs.**

**Answer any eight questions from the following**

**5 x 8 = 40**

1. Differentiate between eukaryotic and prokaryotic ribosomes.
2. Describe the ultra-structure of prokaryotic flagella, with the help of a labeled diagram.
3. Elaborate GPCR. Describe the pathway of cell signaling mediated by GPCR.
4. What are intermediate filaments? Write down their functions.
5. Mention the different causes that may transform a normal cell into a malignant cell.
6. Write a short note on nuclear pore complex.
7. Write a short note on protein sorting.
8. Describe the structure and functions of the golgi apparatus.
9. Write briefly on cAMP pathway mediated signal transduction?
10. Write briefly on the phases of mitosis.