

Total No. of Questions : 09

B.Sc.(BT) (2013 to 2017) (Sem.-3)

Subject Code : BSBT-203

M.Code : 47036

Time : 3 Hrs.

Max. Marks : 60

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt **ANY FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt **ANY TWO** questions.

Q1. Fill in the Blanks :

- Resolving power of microscope.....
- On increasing the wavelength of light, resolution of microscope.....
-ion channels are responsible for depolarization of cardiac muscles.
- On the retina of eye.....image is formed.
-radiation is the least penetrating.
- Roentgen is unit of.....
- Insulating sheath on axon
- Efflux of.....ions causes hyperpolarization of cell.
- Nodes of ranvier provide.....type of conduction.
- Speed of light is.....m/s.

SECTION-B

- Q2. Differentiate between striated and non-striated muscles with diagrams.
- Q3. Explain α, β, γ radiations with suitable examples.
- Q4. Describe in brief any four crystal systems with diagrams.
- Q5. Explain with diagram conduction of action potential by neuron.
- Q6. Explain in brief the rhodopsin cycle of vision.

SECTION-C

- Q7. Explain the depolarization, repolarization and hyperpolarization stages of cardiac cell.
- Q8. Define Diffraction. Explain Bragg's law.
- Q9. With the help of ray diagram explain the working of compound microscope.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.