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B.Sc.(MLS) (2013 to 2017) (Sem.-1)

Subject Code : BMLS-101

M.Code : 48046

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 Answer all of them :

- What is central dogma?
- What is a genotype?
- What is co dominance?
- What is the power house of the cell? Explain.
- What are abiotic and biotic component of ecosystem?
- Name various cytoskeletal proteins.
- What are malpighian tubules?
- What is food web?
- Differentiate purine and pyrimidine.
- What is binomial nomenclature?

SECTION-B

2. Differentiate prokaryotic vs eukaryotic cells.
3. What is Miller-Urey experiment? Explain its significance.
4. Explain fluid mosaic model of plasma membrane.
5. Discuss various layers of atmosphere.
6. What is nitrogen fixation? Discuss nitrogen cycle.

SECTION-C

7. *"DNA as a genetic material"*. Discuss.
8. Discuss various stages of meiosis.
9. What are various systems of classification of living organism? Explain their merits and demerits.

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.