



# उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

M.Sc. 1<sup>st</sup> YEAR ASSIGNMENT

Last date of Submission: 31/07/2015

(जमा करने की अन्तिम तिथि. 31/07/2015.)

Course Title: Cell and Molecular Biology

Course Code: ZO-502

Year: 2014-15

Maximum Marks: 40

सत्र- 2014.15

अधिकतमअंक- 40

Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

Briefly discuss the following:

- 1- Give the structure and component of R.N.A.
- 2-  $\text{Na}^+$  -  $\text{K}^+$  pump Or Sodium pump.
- 3- What is the hereditary basis of cancer?
- 4- Structure and function of Golgi complex.
- 5- Describe the method used for culturing the Animal cell.
- 6- What is cell cycle? Enumerate the most variable period of the cell cycle?
- 7- Unidirectional and bidirectional replication of D.N.A.
- 8- Translation.

**Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answers 02 questions only.**

- 1- Describe the tri-carboxylic Acid (TCA) and give the mechanism of ATP formation?
- 2- Describe the different classes of intracellular receptor and discuss their role in cell signaling?
- 3- Give the detail account of process of transcription in Eukaryotes?
- 4- Give the detail Explanation of the transposons.

