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Roll No.	otal No. of Pages : 02
Total No. of Questions : 10	
M.Sc.(Clinical Research) (2018 Batch) FOUNDATION COURSE Subject Code : MSCR-101-18 Paper ID : [75605]	(Sem1)
Time:3 Hrs.	Max. Marks:70

**INSTRUCTIONS TO CANDIDATES :** 

- 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 FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

## **SECTION-A**

## **Q1** Answer briefly :

- b) Define and explain laws of mass action.c) Define and explain the explained of the explai
- d) Define pH and buffer.
- e) Define carbohydrate and protein with examples.
- f) Define prokaryote and eukaryote with examples.
- g) Write briefly about bacterial growth curve.
- h) Define ecosystem and its significance.
- i) Write briefly about segregation of traits and segregation ratio.
- i) Define DNA and RNA and its functions.



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## **SECTION-B**

- Q2. Define and explain Arrhenius equation. Write the expression of Arrhenius equation and plot.
- Q3. Define HPLC, its advantages and applications.
- Q4. Enlist various kidney function tests and their significance.
- Q5. Discuss about various ways and means to conserve biodiversity.
- Q6. Discuss about mutation and mutagenesis and Ames test.

## **SECTION-C**

- Q7. Discuss the principle, procedure and applications of paper chromatography.
- Q8. Describe the structure, types, functions and applications of immunoglobulins.
- Q9. Discuss about the factors affecting climate change, its consequences and ways to prevent climate change.
- Q10. Discuss in detail about vectors and enzymes used in recombinant technology with examples and their applications.