The Assam Royal Global University, Guwahati

Royal School of Biosciences B.Sc. Biochemistry 5th Semester Semester End Examination, January 2022 Course Title: Gene Expression and Regulation Course Code: BCH152C502

Time: 3 Hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given.

The figures in the right-hand margin indicate marks.

| | Section – A | |
|----|--|----------|
| 1. | Attempt all questions. | 2 x 8 |
| 8 | a. What are the prokaryotic promoters? | |
| t | b. What is transcription bubble. | |
| | c. What are stop codons? | |
| d | d. What is translation? | |
| e | e. What is lac operon? | |
| f | f. What is genetic code? | |
| g | g. Define RNAi. | |
| h | h. What is RISC? | |
| | Section – B | |
| 2. | Answer any two of the following questions: | 6 x 2 |
| a. | transcription and the second area community steps of transcription | ription. |
| b. | post statistip trotter in articular. | |
| c. | What is inhibition of transcription? Write about the different inhibitors. | |
| 3. | Answer any two of the following questions: | 7 x 2 |
| a. | Discuss the detailed mechanism of RNA editing. | |
| b. | months and the medical and the months and the many of the months and the months a | |
| c. | What is RNAi? Write about its detailed mechanism. | |
| 4. | Answer any two of the following questions: | 7 x 2 |
| a. | Discuss the ubiquitination process in brief. | |
| b. | Write about the different inhibitors of protein synthesis. | |
| c. | Write a short note on protein folding. | |
| 5. | Answer any two of the following questions: | 7 x 2 |
| a. | | |
| b. | What is SOS mechanism? Write the short note on it. | |
| c. | What a short note on chromatin remodelling. | |