SURENDRANATH COLLEGE

INTERNAL ASSESSMENT
SEMESTER-1, 2018-19
SUBJECT-PHYA
CC-2

Time-30mins **Full Marks-10**

CU Reg. No.-	**SECTION-**	**ROLL NO.-**

MARKS OBTAINED	Signature of Examiner- With date
MARKS CONVERTED TO 10	Approved by HOD- With date

Question Booklet

1.	**Answer any three questions:** **a) Differentiate between gap junctions and tight junctions.** **b) Write the functions of the smooth endoplasmic reticulum and Golgi apparatus in cells.** **c) Give the characteristic features of the pachytene stage of meiosis and mention its significance.** **d) Explain what is meant by the asymmetry of membrane lipid bilayer.** **e)** How are the parameters V_{max} and K_m for an enzyme altered in case of Non-Competitive inhibition**?** **f) Write two important characteristics of rate –limiting enzymes and mention their significance.** **g) Name the cytoskeletal elements found in cells and mention one function of each.** **h)** What is the importance of cristae in the inner membrane of mitochondria?	***Marks*** ***2x3=6***
2.	**Answer any four questions:** **a) b) Differentiate between euchromatin and heterochromatin.** **c) What are ribozymes**? d) What is CdK-cyclin?. e) What is linker DNA? f)Rationalize the effect of saturated fatty acids on membrane fluidity. g) What is kinetochore? h)Differentiate between cofactors and prosthetic groups of enzymes. i)Give an example each of(i)a symport (ii)an antiport. j) Does any change of standard free energy occur in an enzyme catalysed reaction? Justify your answer .	***1x4=4***

Answer

Q No.	*Answer*

