

SECTION C – K4 (CO3)

Answer any TWO of the following **(2 x 12.5 = 25)**

8 Analyze the role of mitochondria in ATP synthesis

9 Differentiate gap junction and tight junctions.

10 a) Paraphrase and explain protein sorting)
b) Analyze the confirmation of proteins.

11 Illustrate and explain the steps involved in replication of DNA.

SECTION D – K5 (CO4)

Answer any ONE of the following **(1 x 15 = 15)**

12 Defend the statement that stromatolites have an important role in evolution of life

13 Illustrate and give an account on hedgehog signaling pathway

SECTION E – K6 (CO5)

Answer any ONE of the following **(1 x 20 = 20)**

14 Elucidate the structure and functions of cell membrane channels with illustration

15 Explain the significance of LOD score for identification of genetic disorder and add onethical and legal issues in human genetics.
