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D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**SEMESTER EXAMINATIONS****NOVEMBER- 2016****16CPZO1C****CELL AND MOLECULAR BIOLOGY**

Time: 3 Hrs**Max.Marks: 75****SECTION-A (5x 6 =30)****Answer ALL the questions.**

1. (a) Explain about the functions of Endoplasmic Reticulum.
(Or)
(b) Write about the mitochondrial energetics.
2. (a) Discuss about Euchromatin and Heterochromatin.
(Or)
(b) Describe about the nuclear receptors.
3. (a) Explain about the chromosomal movement during mitotic division.
(Or)
(b) Describe about any two tumour viruses.
4. (a) Explain about the structure of DNA.
(Or)
(b) Write the structure and functions of rRNA.
5. (a) Explain the process of Eukaryotic pre-mRNA.
(Or)
(b) Write about the role of RNA polymerase in prokaryotic transcription.

SECTION-B (3x15 =45)**Answer any THREE of the following questions.**

6. Write about the functions of plasma membrane.
7. Illustrate the structure and function of Lampbrush chromosomes.
8. Discuss about the environmental factor induces cancer.
9. Describe about the DNA repair mechanism.
10. Write the process of translation in Eukaryotes.

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