

(FOR THE CANDIDATES ADMITTED

24UZY304

DURING THE ACADEMIC YEAR 2024

ONLY)

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) , POLLACHI

END-OF-SEMESTER EXAMINATIONS: NOVEMBER 2025

B.Sc ZOOLOGY(AIDED)

MAXIMUM MARKS: 75

SEMESTER: III

TIME : 3 HOURS

PART - III

24UZY304 - CELL BIOLOGY

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. Choose the basic stains from the following_____.
a) safranin b) methylene blue c) crystal violet d) all the above
2. Name the semi permeable membrane_____
a) plasmalemma b) polythene membrane c) Cell wall d) cuticle
3. Choose the suicidal bag of the cell_____
a) ribosome b) lysosomes c) mesosome d) nucleus
4. Select the name of the chromosome in which the centromere is located at the end of the chromosomes_____
a) metacentric b) acrocentric c) telocentric d) sub metacentric
5. Select the name of bone tumour_____
a) carcinoma b) lymphoma c) osteoma d) glioma

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Relate corona virus
7. What is phagocytosis?
8. Define autolysis
9. Define transcription.
10. What is apoptosis?

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Interpret the salient features of cell theory.
(OR)
b) Examine the germ plasm theory.
12. a).Compare rough endoplasmic reticulum and smooth endoplasmic reticulum.
(OR)
b) Compare the 70S ribosome and 80 S ribosomes.
13. a) List the functions of centrosome.
(OR)
b). Describe the structure of nucleolus.

14. a) Interpret the salient features of genetic code.
(OR)
b) Assess the different types of DNA replication.
15. a) Examine the causes of Cell aging.
(OR)
b). Interpret the stages of Cell cycle.

SECTION – C**(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)**

16. a) . Examine the Structure of *E.coli* bacterium.
(OR)
b). Describe the process of Fixation and Embedding in Cytological technique.
17. a). Outline the fluid mosaic model of plasma membrane.
(OR)
b). Examine the structure of Golgi complex.
18. a).Defend the structure of Nucleus with neat sketch.
(OR)
b). Mitochondria is the Power house of the cell. Discuss.
19. a).Outline the Watson crick model of DNA.
(OR)
b) Explain the steps involved in translation.
20. a) Summarize the Characteristics, diagnosis and treatment of Cancer cells.
(OR)
b). Interpret the different stages of Mitosis.

Ethical paper