

Bs/ZOO/C4 (T)

2024

(FYUGP)

(2nd Semester)

ZOOLOGY

(Major)

Paper Code : ZOO/C4 (T)

(**Cell Biology**)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. What are phages? What are the steps involved in the lytic cycle of bacteriophages?

3+12=15

Or

Explain in detail the process of transport across the cell membranes.

15

24L/821

(Turn Over)



(2)

2. Write notes on the following : $7\frac{1}{2}+7\frac{1}{2}=15$
(a) Lysosomes
(b) Endoplasmic reticulum

Or

Give a detailed explanation on the transport systems involving Golgi apparatus. 15

3. Write a note on the structure of Mitochondria and give an account on the endosymbiotic hypothesis in relation to Mitochondria. $8+7=15$

Or

Give a detailed account on the mitochondrial respiratory chain. 15

4. Write notes on the following : $7\frac{1}{2}+7\frac{1}{2}=15$
(a) Nucleolus
(b) Nuclear pore complex

Or

Give a detailed account on Euchromatin and Heterochromatin. $7\frac{1}{2}+7\frac{1}{2}=15$

5. With the help of diagrammatic representation, explain the process of equational division. 15

24L/821

(Continued)

(3)

Or

Give a detailed account on the structure and functions of microtubules. 15

24L-300/821

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