

JLR – 14/10

ZOOLOGY

Time : 3 hours

Full Marks : 100

The figures in the right-hand margin indicate marks.

Answer any five questions.

1. What are the functions of the Endoplasmic reticulum in the animal cell ? Describe precisely.
20
2. What is chromosomal aberration ? Describe the types of chromosomal aberrations.
5+15 = 20
3. Write about Primary and Secondary neurulation ? Describe the defects arising due to improper neurulation.
15+5 = 20
4. Describe the Geological time scale. 20

5. What is Taxonomy ? Describe all the minor phyla in animalia. $5+15 = 20$
6. Define Genetic drift. Write about the effect of genetic drift on Hardy-Weinberg equilibrium. Describe bottle neck effect and Founder's effect. $2+10+8 = 20$
7. What is behaviour ? Describe the behavioural differences caused by genetic differences. Write about the neural control of behavior. $2+12+6 = 20$
8. Define Respiration. Describe the respiratory organs in invertebrates. Write about the different types of respiratory pigments. $2+10+8 = 20$
9. Write short notes on any four of the following : $5 \times 4 = 20$
- (a) Commensalism
 - (b) Sympatric evolution

- (c) Mutualism
- (d) Ecological Pyramids
- (e) Xenobiotics
- (f) Batesian mimicry

10. Describe integrated pest management. 20

