

**2024**

**( FYUGP )**

**( 4th Semester )**

**ZOOLOGY**

**( Major )**

**Paper Code : ZOO/C8**

**( Comparative Anatomy of Vertebrates )**

**Full Marks : 75**

**Pass Marks : 40%**

**Time : 3 hours**

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

- 1. Define integumentary system. Explain the structure and derivatives of integuments.**

**2+6+7=15**

**Or**

**With a well-labelled diagram, explain the axial and appendicular skeleton of amphibians.**

**7½+7½=15**

2. Explain the respiratory system in vertebrates with special reference to gills and lungs.

$7\frac{1}{2}+7\frac{1}{2}=15$

Or

Discuss in detail about the accessory respiratory organs in fishes.

15

3. Give a comparative account on the alimentary canal with special reference to reptiles and aves.

15

Or

Give an account on dentition in mammals.

15

4. What is circulatory system? Explain the general plan of circulation in vertebrates with proper diagram.

$2+13=15$

Or

What is urinogenital system? Explain in detail the succession of kidney in vertebrates.

$2+13=15$

5. Give a detailed comparative account of brain of mammals and aves.

15

Or

Write notes on :

$7\frac{1}{2}+7\frac{1}{2}=15$

- (a) Auditory receptors in man  
(b) Visual receptors in man

★ ★ ★