

QP CODE : 20161

(2 1/2 Hours)

Marks : 75

- NB :** (1) **All** questions are **compulsory** and carry **equal** marks.
 (2) **Figures** to the **right** indicate full **marks**.
 (3) **Draw** neat labelled **diagrams** wherever **necessary**.
 (4) Answer the questions in order.

1. Explain the following :

- (a) Poison and Uropygial types of glands. **7**
OR
 (a) Classification of keratinized derivatives. **7**
 (b) Wart in toad and rattle in snake. **8**
OR
 (b) Dermal scales in mammals. **8**

2. Describe the following :

- (a) Transport of hormones. **7**
OR
 (a) Histology of Pancreas. **7**
 (b) Classification and properties of Hormones. **8**
OR
 (b) Histology of Thyroid glands. **8**

3. Describe the following :

- (a) General characters of facial bones. **7**
OR
 (a) Sexual dimorphism of human skeleton-Pelvis. **7**
 (b) Structure of Lumbar Vertebra. **8**
OR
 (b) Structure of fore limb. **8**

4. Explain the following :

- (a) Cell affinity and differentiation. **7**
OR
 (a) Epithelial-mesenchymal interaction. **7**

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(b) 48 hours chick embryo.

8

OR

(b) Gradient theory.

8

5. Write short notes on :

(a) Epidermal derivative-Salt gland.

4

OR

(a) Modified scales - Spine.

4

(b) Functions of adrenal gland.

4

OR

(b) Transport of hormones.

4

(c) Functions of bones.

4

OR

(c) Sacrum Vertebra.

4

(d) Transgenic mouse.

3

OR

(d) Cell adhesion.

3