

**VPG(1)- Z(3)**

**2017-19**

**Full Marks : 70**

**Time : 3 hours**

**Answer five questions. Q.No.1 is compulsory**  
**Rest four questions, select one question**  
**from each of the four Units.**

*The figures in the right-hand margin indicate marks*

*Candidates are required to give their answers in*  
*their own words as far as practicable.*

1. Write short notes on any *four* of the following : 2.5×4
  - (a) Ovarian follicle
  - (b) Pheromones
  - (c) Hormones and secondary sexual characters
  - (d) Pituitary gigantism
  - (e) Goitre (Thyroid swelling)
  - (f) Aldosterone
  - (g) Zona fasciculata
  - (h) Diabetes insipidus

(Turn Over)

**( 2 )**

Answer *four* questions selecting *one* from each  
of the following *four* Units.

**UNIT—I**

2. Draw a well labelled diagram of the cross section (C.S) of Testis and describe its histology and physiology. 15 × 4
3. What is Semen ? Describe the physical nature and biochemical composition of Semen. Add a note on its significance.

**UNIT—II**

4. Describe the Neuro-Endocrine System and draw its self explanatory diagram.
5. Describe the histology of Adenohypophysis and functions of hormones secreted from it.

**UNIT—III**

6. Describe the biosynthesis and secretion of Thyroxin. <http://www.vbuonline.com>
7. What is Fuel Metabolism ? Describe the hormonal control of fuel metabolism with special reference to hormones of Islets of Langerhans.

VPG (1)- Z (3)

(Continued)

( 3 )

**UNIT—IV**

8. Describe the determination of Embryonic Axes in *Drosophila*.
9. What is Hematopoietic Stem Cell ? Describe the Source, Physical Character, Multipotency and Self renewal of Hematopoietic stem cells.

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