



### The Times Secondary School

Dillibazar, Kathmandu

Second Unit Test – 2076

Grade: - XII

Set A

Full Marks:-25

Stream: Science

Pass Marks:-10

Subject: - Biology

Time 45Mins

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate the full marks

Use separate answer sheets for Group A and Group B

#### Group A “Botany”

1. Answer in very short. [7×1=7]
  - a. What is the type of vascular bundle in leaf?
  - b. Define photolysis.
  - c. What is polygenic inheritance?
  - d. Name the types of mesophyll tissue in dicot leaf.
  - e. What is the function of lysing enzyme in genetic engineering?
  - f. Define cloning vector.
  - g. What is bundle sheath?
2. Answer in brief. [2×3=6]
  - a. Differentiate between transpiration and guttation.
  - b. Describe the process of sex linked inheritance with appropriate example.

#### Group B “Zoology”

3. Answer in very short. [6×1=6]
  - a. Name the protein digesting enzymes, found in human stomach.
  - b. What is meant by cardiac cycle?
  - c. Define osmoregulation.
  - d. Name the types of neuron on the basis of its structure.
  - e. Define emulsification.
  - f. What is an artificial pacemaker?
4. Answer in brief. [2×3=6]
  - a. Describe the process of ultrafiltration in a nephron.
  - b. Differentiate between axon and dendron.

The End



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Use separate answer sheets for Group A and Group B

#### Group A “Botany”

1. Answer in very short. [6×1=6]
  - a. Define bollifoim cell.
  - b. What is criss cross inheritance?
  - c. Define green manure.
  - d. What is photophosphorylation?
  - e. Give two reasons for selecting *Drosophila malanogaster* by Morgan in his experiment?
  - f. Name photosynthetic pigments.
2. Answer in brief. [2×3=6]
  - a. Describe the anatomy of dicot leaf in detail.
  - b. Write dangers of genetic engineering.

#### Group B “Zoology”

3. Answer in very short. [7×1=7]
  - a. What is meant by hypertonic nephric filtrate?
  - b. Name any two complete carbohydrate digesting enzymes.
  - c. Define stroke volume.
  - d. Where do you find nodes of Ranvier?
  - e. What is meant by counter current system?
  - f. Differentiate between unipolar and bipolar neuron(any two).
  - g. Which pigment gives the colouration to urine?
4. Answer in brief. [2×3=6]
  - a. Describe the process of protein digestion in small intestine.
  - b. What is heart beat? How is it conducted?

The End