- (a) Draw a diagram of excretory system in human beings and label on it:
 Aorta, vena cava, urinary bladder, urethra
 - (b) List two vital functions of the kidney.

[2009] ...[5M]

- Explain the process of digestion of food in mouth, stomach and small intestine in human body. [2010] ...[5M]
- (a) List the three events that occur during the process of photosynthesis. Explain the role of stomata in this process.
 - (b) Describe an experiment to show that "sunlight is essential for photosynthesis."

[2010] ...[5M]

- 36. (a) Mention any two components of blood.
 - (b) Trace the movement of oxygenated blood in the body.
 - (c) Write the function of valves present in between atria and ventricles.
 - (d) Write one structural difference between the composition of artery and veins.

[2018]...[5M]

- (a) Define excretion.
 - (b) Name the basic filtration unit present in the kidney.
 - (c) Draw excretory system in human beings and label the following organs of excretory system which perform following functions:
 - (i) Form urine
 - (ii) Is a long tube which collects urine from kidney
 - (iii) Store urine until it is passed out.

[2018] ...[5M]

- (a) Why is there a difference in the rate of breathing between aquatic organisms and terrestrial organisms? Explain.
 - (b) Draw a diagram of human respiratory system and label – pharynx, trachea, lungs, diaphragm and alveolar sac on it.

[2020]...[5M]

OR

- (a) Name the organs that form the excretory system in human beings.
- (b) Describe in brief how urine is produced in human body. [2020]...[5M]

2 : Control and Coordination

- Name two tissues that provide control and coordination in multicellular animals. [2009]...[1M]
- How is the spinal cord protected in the human body? [2010] ...[1M]
- In plants the role of cytokinin is: [2023] ...[1M]
 - (a) Promote cell division
 - (b) Wilting of leaves
 - (c) Promote the opening of stomatal pore
 - (d) Help in the growth of stem
- What are 'nastic' and 'curvature' movements?
 Give one example of each. [2009] ...[2M]
- What are hormones? Name the hormone secreted by thyroid gland and state its function.

[2010] ...[2M]

- (a) Name one gustatory receptor and one olfactory receptor present in human beings.
 - (b) Write a and b in the given flow chart of neuron through which information travels as an electrical impulse.

Dendrite	\rightarrow	а	\rightarrow	b	\rightarrow	End	point	of	Neuron
				_					

[2018] ...[2M]

- (A) Name the part of brain which is responsible for the following actions: [2023] ...[2M]
 - (i) Maintaining posture and balance
 - (ii) Beating of heart
 - (iii) Thinking
 - (iv) Blood pressure

OR

- (B) Where are auxins synthesized in a plant ? Which organ of the plant shows:
 - (i) Positive phototropism
 - (ii) Negative geotropism
 - (iii) Positive hydrotropism
- Name the hormones secreted by the following endocrine glands and specify one function of each:
 - (a) Thyroid
 - (b) Pituitary
 - (c) Pancreas

[2018] ...[3M]