REVISION QUESTIONS FOR FINAL TERM, CLASS-7, SESSION 2017-18, Biology

PHOTOSYNTHESIS

- 1. Define: Photosynthesis, Autotrophic nutrition.
- 2. What does a plant require for preparing food?
- 3. State the adaptations of leaves for performing photosynthesis.
- 4. Describe the process of opening and closing of stomata. Give labelled diagrams.
- 5. What is vascular system? What is its function?
- 6. How does the following factors affect photosynthesis?
 - a) Carbon-dioxide
 - b) Light
 - c) Temparature
- 7. State the fate of the end products of photosynthesis.
- 8. How does utilization and transportation of prepared food occur in plants?
- 9. State the significance of photosynthesis.
- 10. Design the following experiments to show.
 - a) Starch is produced during photosynthesis.
 - b) Chlorophyll is necessary for photosynthesis.
 - c) Light is necessary for photosynthesis.
 - d) Oxygen is given out during photosynthesis.

RESPIRATION IN PLANTS AND ANIMALS

- 1. Define: Respiration, Inhalation, Exhalation.
- 2. Give the word equation for aerobic and anaerobic respiration.
- 3. Give the chemical equation of aerobic respiration.
- 4. State the respiratory organs on the following organisms:
 - a) Whale
- b) Fish
- c) Frog d) Insect
- e) Bird
- 5. How can you prove thet inhaled air contains less carbon-dioxide than exhaled air?
- 6. How do plants breathe?
- 7. Root of a plant was immersed in a bottle containing alkali solution to which phenolphthalein was added. What would be your obdservation after a few hours? Give reasons in support of your statement.
- 8. Give reasons:
 - a) Gardeners loosen the soil near the roots.
 - b) Yeast is used in bakeries.
 - c) Muscle cramp occurs after a strenous exercise.
 - d) Respiration rate increases as you go higher up the hills.
- 9. What is the normal respiration rate? When does it alter?
- 10. State the differences between:
 - a) Larynx and Pharynx
 - b) Bronchi and Bhonchioles
 - c) Internal respiration and External respiration
- 11. State the functions of:
 - a) Epiglottis b) Alveolus c) Trachea d) Nasal hair e) Mucous f) Network of capillaries
- 12. How is the inhaled air conditioned before entering the lungs?
- 13. What is oxyhaemoglobin? How does it transport oxygen to all parts of the body?
- 14. State the role of diaphragm, chest muscles and ribcage in the process of breathing.
- 15. Draw a labelled diagram to show the exchange of gases in an alveolus.

TRANSPORT AND EXCRETION

Transport in plants

- 1. Differentiate between xylem and phloem.
- 2. Why is transport system necessary in plants and animals?
- 3. Define the following:
 - a) Semipermeable membrane b) Osmoisis c) Transpiration
- 4. Design an experiment to show:
 - a) Xylem conducts water.
 - b) Transpiration occurs in plants.
 - c) Phloem transports food.
- 5. Name the two forces responsible for ascent of sap.

Circulatory System

- 1. Name the components of the circulatory system.
- 2. Diffenrentiate between R.B.C. and W.B.C. on the basis of their structure and function.
- 3. Differentiate between artery and vein based on structure, type of blood cariied and origin.
- 4. Draw a schematic diagram to show the pathway of blood circulation.
- 5. Give reasons for the following:
 - a) Heart is partitioned into four chambers.
 - b) Valves are present in veins but not in arteries.
 - c) Heart beat corresponds to pulse.
- 6. Explain the conditions at which heart rate alters.
- 7. Draw labelled diagrams of:
 - a) Cross section of blood vessels
 - b) Blood cells

Removal of waste

- 1. Define excretion.
- 2. Explain the role of skin as an excretory organ and in controlling body temparature.
- 3. How is urine formed in the kidneys?
- 4. What happens when both kidneys of a person are damaged? State the remedy.
- 5. Draw labelled diagrams of:
 - a) Urinary system
 - b) Nephron

HOW ANIMALS ADAPT

- 1. Give reasons for the following:
 - a) Polar bears, yaks, ermines have a thick fur.
 - b) Snakes nad lizards of desert aestivate.
 - c) Most desert animsla are nocturnal.
 - d) Monkeys have a long coiled tail.
 - e) Ears of elephants are large.
 - f) Browsers and grazers ahave long legs.
- 2. Differebtiate between:
 - a) Hibernation and Aestivation
- b) Browsers and Grazers
- 3. "Migration is necessary for certain fishes and birds". Explain.
- 4. State the adaptation of the following animals:
 - a) Tropical tigers
- b) Penguins
- c) Asiatic elephants
- d) Camels

FIBRES FROM ANIMALS (SILK)

- 1. Give reasons for the following:
 - a) Some eggs are kept for hatching apart from silk production.
 - b) Moulting is necessary in silkworms.
 - c) Pupa re killed after eight days of cocoon formation.
 - d) Fibres are soaked in solution of salts of tin, lead and iron.
- 2. Differentiate between:
 - a) Larvae and Pupae b) Organzine and Tram c) Throwing and Weighting
- 3. Define the following:
 - a) Sericulture b) Bleaching c) Dyeing d) Cocoon
- 4. Draw the life cycle of silk moth.
- 5. Give the steps of sericulture.

FORESTS

- 1. State the importance of forests in our daily life.
- 2. How does the forest protect our environment? Discuss on the basis of checking pollution, controlling rainfall and temparature, floods and draughts, maintaining natural balance of gases, controlling soil erosion.
- 3. Give reasons for the following:
 - a) A single tree benefits many organisms.
 - b) Plants and animals both depend on each other.
 - c) Food chains become interlinked to form food web.
- 4. What do you mean by extinct? Name some animals that have become extinct.