# SECOND TERM EVALUATION 2013-2014
# BIOLOGY

Time 90minutes

Class 9 Score:40

Instructions

- Attempt all questions
- 15 minutes can be used as 'cool off' time
- Read instructions carefully before attending the questions

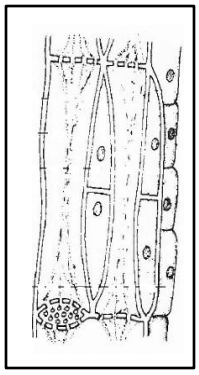
**1.Find out the odd one .Write the common feature of the others** (2)

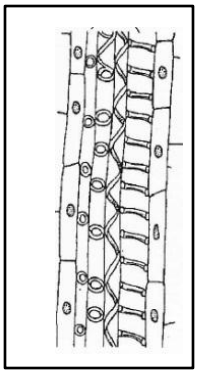
(a)Salivary amylase , pancreatic amylase, trypsin , disaccharidase

(b)Copper, phosphate, zinc, chlorine

2. Components of conducting tissues in plants are given in boxes A and B. Identify the concerned conducting tissue and differentiate their functions. (2)

**A** **B**





3.Suggest four concepts to be presented ion a seminar titled "characteristics of Adolescence" (2)

4.From the following statements, pick out those which are not related to light phase.

(a) takes place in stroma

(b)Water breaks down into hydrogen and oxygen.

(c)Needs the presence of light

(d)Synthesis of glucose. (2)

5.' The division of nucleus in a plant cell and in an animal cell are in the same manner. But they differ in the case of cytoplasmic division'. Respond to this statement (2)

6.Some hints related to the respiration of cockroach and earthworm are given in boxes. Rearrange the hints if they are wrongly arranged. (2)

| **Cockroach** | **Earthworm** |
|---|---|
| Skin | Blood does not have role in respiration |
| Haemoglobin is present in plasma | Trachea |
| Blood is colourless | Keeps the skin wet |

7.Two stages of a process are given below. Analyse it and answer the following questions.

(**A**) Glucose ⟶ Pyruvic acid + ------**C**------- ATP

(**B**)Pyruvic acid ⟶ O2 ⟶ ---**D**---------+ $H_2O$+ energy

(a) identify the stages **A** and **B** ?

(b)Complete **C** and **D** ?

(c)Name the sites where **A** and **B** takes place respectively? (3)

8.

Chromatids condense.

DNA duplicates.

Spindle fibers are get attached to centromeres.

Nuclear membrane and nucleus disappear.

Formation of daughter chromosomes.

Given above are the different stages of a process which help in the phenomenon of growth.

(a) Identify the process?
(b) Rearrange the stages in correct order? (3)

9.Match the following suitably (4)

| **A** | **B** |
|---|---|
| Opens in to right atrium | Starts from the right ventricle |
| Bicuspid valve | Starts from the right ventricle and ends in left atrium |
| Aorta | Superior venacava |
| Pulmonary circulation | In between right atrium and right ventricle |
| | Starts from the left ventricle |

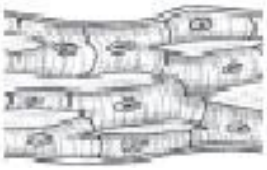
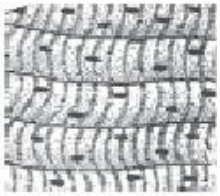
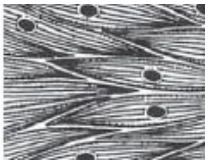
10.”The process of respiration is same in man and yeast. Energy is released in both cases”. Comment on the statement and justify your comment? (4)

11. Make suitable pairs (3)

**Mimosa leaf, stem of a plant, Nastic movement, positive hydrotropism, positive phototropism, root of a plant.**

12.Observe the pictures given below and answer the questions

**A** **B** **C**

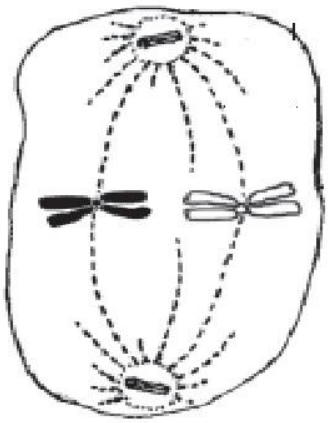




(a) Identify **A , B , C ?** ($1_{1/2}$)
(b)Which muscle is seen in associated with blood vessels? (1)
(c)Write the features of **B** ? ($1_{1/2}$)

13.Two beakers ,syringe, straw, slaked lime –These are some material collected by Syam to conduct an experiment. What is the aim of the experiment he is going to conduct? How will he prove it ? (3)

14. Redraw the diagram given below. Name and label the following parts (4)

(a)The structure formed from centrosome
(b)Thread like structures which get attached to centromere
(c)structure formed by the condensation of chromatin network



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