



# VIVEK TUTORIALS

IX (English)  
(Final Examination )

Science And Technology 2-(15,16,17,18)

DATE: 17-03-19

TIME: 2 hour

MARKS: 40

SEAT NO:

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Q.1 A) Solve the following questions.

(5)

1) Find the odd one out

GMRT, Hubble, Chandra, Astrosat

2) Gibberellins : Stem elongation :: Cytokinins : .....

3) State True or False

Blood is a type of connective tissue.

4) ..... of plants absorb these substances from the soil and transport them.

5) Give examples of:

Artificial satellites

B) Choose the correct alternative and rewrite the sentence

(5)

1) Adrenal gland is located

a. Anterolateral sides of trachea

b. behind thyroid gland

c. Anterior end of each kidney

d. At the base of brain

2) What type of tissues are Xylem and Phloem?

a. conducting tissues

b. transport tissues

c. stem tissues

d. nutrient tissues

3) '..... growth of cells or tissues in an aseptic and nutrient-rich medium' is called tissue culture.

a. Ex vitro

b. In vitro

c. In vivo

d. Ex vivo

4) What is the characteristic feature of the plant in the figure?

a. Touch sensitive.

b. Fibrils present on the leaves.

c. Flower opens only at night.

d. The ripened fruit dehisces.

5) Which Cells contain vesicles packed with secretory material?

a. Lower epithelium

b. Stratified epithelium

c. Upper epithelium

d. Glandular epithelium

Q.2 Solve the following questions. (Any five)

(10)

1) GMRT

- 2) Colocasia leaves are rubbed with lemon or tamrind juice before cooking.
- 3) Distinguish between DNA and RNA.

- 4)

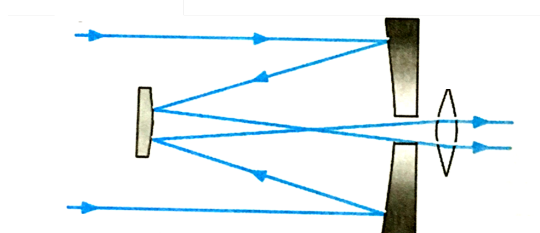
Tissue	Type of animal tissue
Blood	.....
Glandular epithelium	.....
Adipose tissue	.....
Cardiac muscles	.....

- 5) Some movements of plants are related with growth.
- 6) When green seeds crossed with yellow seeds, all seeds in  $F_1$  generation were found to be yellow.

Q.3 Solve the following questions. (Any five)

(15)

- 1) Identify the telescope and label its parts.



- 2) Why an X-ray telescope not based on earth?
- 3) Explain the working of Chandra
- 4) Give uses of:  
Chandra
- 5) The milk was on the stove. Rasika was engrossed watching television. She smelled something burning. She ran towards the kitchen. The milk was boiling over. She held the vessel with her bare hands but, screaming, she let it go at once. This activity was controlled by ..... cells. Special ends of ..... in these cells collected the information, from where it was transferred to the ..... and then towards the terminal end of the ..... The chemicals produced at the terminal end passed through the minute space i.e. .... In this way, ..... is conducted in the body and the process of ..... was completed by conducting the impulses to .....
- 6) Explain with the help of neat labelled diagram Newtonian telescope.
- 7) What are Refracting telescopes?

Q.4 Solve the following questions. (Any one)

(5)

- 1) Write a note on Monohybrid cross. Explain a monohybrid cross with an example.
- 2) Explain the excretory system in humans with a neat labelled diagram.