

GREENLAWNS HIGH SCHOOL

STD -VII. DIV-A, B, C.

EXAM- FIRST TERMINAL.

MARKS-80

DATE-

SUBJECT- SCIENCE.

DURATION- 2 HOURS.

QI) A. MULTIPLE CHOICE QUESTIONS: (5m)

- 1) A car is running around a fixed pole is in Type of motion.
 - a) Oscillatory
 - b) Translatory
 - c) Circular
 - d) Rotatory

- 2) Mass measured with respect to force of gravity is known as
 - a) Matter
 - b) Weight
 - c) Volume
 - d) Energy

- 3) _____ in leaves secretes a waxy coating called the cuticle.
 - a) Chloroplast
 - b) Pectin
 - c) Lignin
 - d) Epidermis

- 4) 1 K cal = _____ J
 - a) 0.418
 - b) 4180
 - c) 4.18
 - d) 41.80

- 5) Constituents of _____ can be separated by physical methods.
 - a) Mixture
 - b) Compound
 - c) Elements
 - d) All of these

B) TRUE OR FALSE, If False correct the underline word and rewrite the correct statement: (5m)

- 1) Kidney stone is caused due to the occurrence of the bacterium E. coli in excretory system.
- 2) Motion is caused by an unbalanced force acting on an object at rest.
- 3) The symbol for element Calcium is Cu.
- 4) Electrical energy is produced as a result of vibration in matter.
- 5) The amount of space occupied by a body is called its volume.

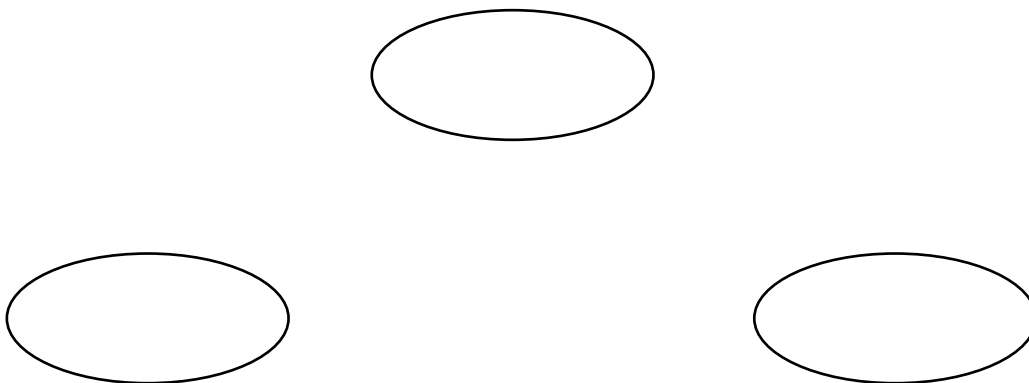
C) MATCH THE FOLLOWING: (5m)

- 1) Dialyzer- Kinetic energy
- 2) Lateral meristems- Vector quantity
- 3) Length- Artificial kidney
- 4) Girls running- Scaler quantity
- 5) Force- Cork cambium

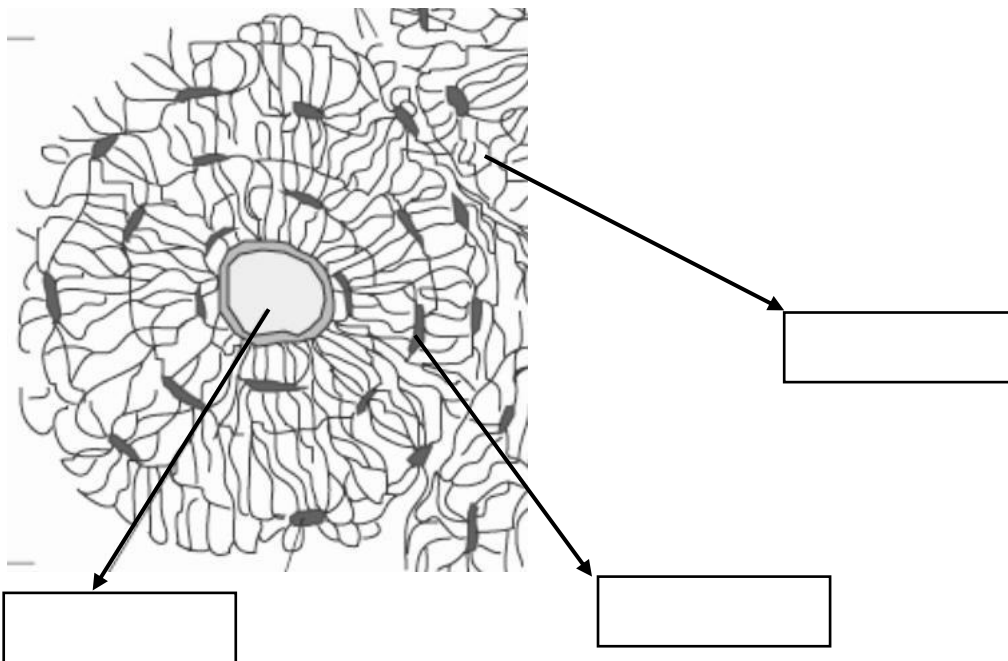
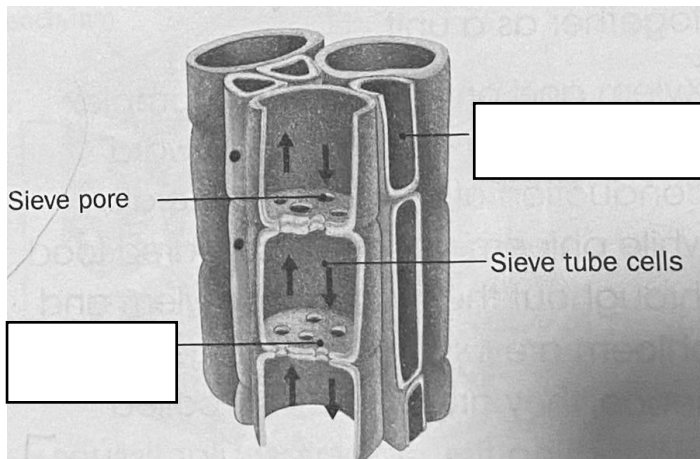
D) NAME THE FOLLOWING: (5m)

- 1) Tissue present in the inner lining of windpipe.
- 2) Li is a symbol for which element.
- 3) Expulsion of urine out of the body.
- 4) Form of energy in a spring when compressed.
- 5) Inter-particle force is present between the same type of particles.

E) Draw and complete the following mind map: (3m)



F) Label the diagram given below: (5m)



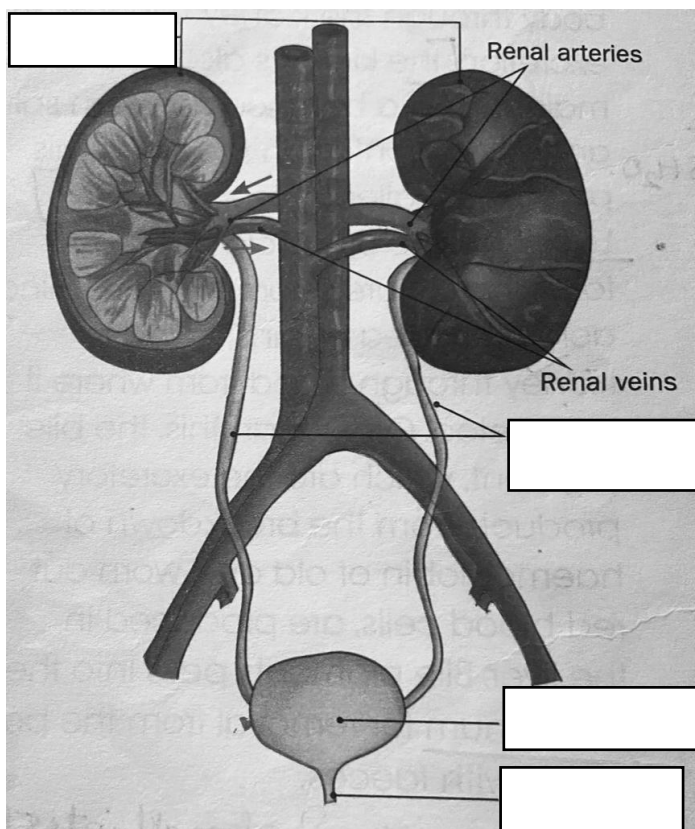
QII) A) Define: (5m)

- 1) Lymph
- 2) Motion
- 3) Evaporation
- 4) Osmoregulation
- 5) Diffusion

B) Differentiate between: (5m)

- 1) Chemical energy and Nuclear energy (w.r.t definition)
- 2) Liquid and Gas (w.r.t inter-particle space)
- 3) Mixtures and Compounds (w.r.t chemical properties)
- 4) Xylem and Phloem (w.r.t its function)
- 5) Lungs and Liver (w.r.t its excretory role)

QIII) PICTURE STUDY: (6m)



1) Label the following parts shown in the diagram

X— _____

Y— _____

Z— _____

2) A) Identify the tube that originate from the renal pelvis of the kidney.

B) Write the function of (Y)

C) Define- (Z)

QIV) Give reasons: (5m)

- 1) Aerenchyma is present in aquatic plants.
- 2) The composition of a mixture varies.
- 3) In a beam balance, mass is determined by comparing an object's weight to a known weight.
- 4) In hydroelectric power plant water is stored at a height.
- 5) Distillation is more advantageous than evaporation.

QV A) Write the scientific term: (7m)

- 1) Plant tissue that has tapering end walls.
- 2) The remaining solution in crystallisation process is called as.
- 3) The natural process in which the light energy is converted into chemical energy.
- 4) High occurrence of calcium oxalate and calcium phosphate leads to.
- 5) Write the symbol and the element name for the following:
a) Fluorine. b) Be. c) Na.

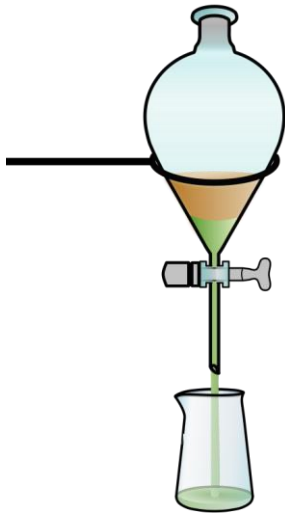
B) Answer in one sentence: (5m)

- 1) Write one way in which the potential energy gets stored in an object along with an example.
- 2) What does law of conservation of energy state?
- 3) State the function of sclerenchyma.
- 4) What is cartilage made up of?
- 5) Write any one need to separate the components of a mixture.

C) Answer the following questions: (13m)

- 1) How is motion of an object performing random motion different from the object performing multiple motion?
- 2) Which machine is used to filter a blood of a person suffering from kidney failure?
What are the two primary treatment options available for kidney failure?
- 3) A) Define energy.
B) Objects made of which elements are attracted by a magnet.
- 4) Why compounds cannot be separated through physical method?
- 5) When does diffusion occur? Mention the state of matter in which the diffusion is fastest and slowest.

6) Study the following picture and answer the following question



- Write the working principle of the following instrument.
- What is the use of the stopcock?
- Above instrument is used to separate what type of a mixture?

QVI) Numerical: (6m)

- 1) A motorcyclist rides around a rectangular track with length 60 m and width 10 m. By completing one full round he comes back to its starting point.

Determine:

- i] Distance
- ii] Displacement
- iii] State the reason to justify your answer with respect to question (ii)

- 2] A girl runs due south for a distance of 7 km, turns around and goes due north for 2.3 km, and finally turns around again and heads 0.5 km due south. What is the distance of the girl?