Answer all questions in this section

- 1. Which of the following processes could be used to preserve fish for a long time?
- A. Boiling only
- B. Salting only
- C. Sun drying only
- D. Salting and sun drying
- 2. One hectare is equivalent to
- A. 100 m2
- B. 1,000 m2
- C. 10,000 m2
- D. 100,000 m2
- 3. Which of the following causes ringworm?
- A. Bacteria
- B. Fungi
- C. Protozoa
- D. Ticks
- 4. The planet earth is located in a galaxy known as
- A. constellation
- B. meteorites C. milky way
- D. satellite
- 5. An object weighing 60N is dragged through a distance of 2m. Calculate the work done
- A. 6 J
- B. 15 J
- C. 30 J
- D. 120 J
- 6. Which of the following substances is necessary for the formation of food in plants?
- A. Carbon dioxide
- B. Nitrogen
- C. Oxygen
- D. Starch
- 7. How many times is the sun over head at the equator within a year?
- A. 1
- C. 3
- D. 4

- 8. Which of the following takes the shape of its container?
- A. Chalk
- B. Charcoal
- C. Paper
- D. Petrol
- 9. A group of stars form
- A. The universe
- B. The atmosphere
- C. The solar system
- D. A galaxy
- 10. Which of the following types of soil is good for plant growth?
- A. Clay
- B. Coarse sand
- C. Fine sand
- D. Loam
- The equation Carbon (IV) oxide + water→ Glucose + Oxygen, represents
- A. Breathing
- B. Diffusion
- C. Photosynthesis
- D. Respiration
- 12. Which of the following pairs of diseases are both contracted through water?
- A. Cholera and dysentery
- B. Small pox and dysentery
- C. Ringworm and smallpox
- D. Tuberculosis and cholera
- 13. The efficiency of a machine is usually less than one due to
- A. friction B. greasing
- C. heat
- D. the load used
- 14. Which of the following pairs of organisms are decomposers?
- A. Animals and bacteria
- B. Animals and fungi
- C. Bacteria and plants

D. Bacteria and fungi

- 15. A mixture of engine oil and water could be A. formation of nutrients in living organisms best separated by
- A. Evaporation
- B. Freezing
- C. Decentation
- D. Hrafmip
- 16. Which of the following plants is propagated vegetatively?
- A. apple
- B. coconut
- C. pawpaw
- D. sweet potato
- 17. Which of the following diseases is transmitted by close contact with an infected person?
- A. AIDS
- B. Bilharzia
- C. Elephantiasis
- D. Measles
- 18. The breakdown of rocks into smaller particles is known as
- A. decomposition
- B. erosion
- C. ploughing
- D. weathering
- 19. Which of the following energy changes takes place when a church bellis tolled?
- A. Chemical energy is changed to sound energy
- B. Kinetic energy is changed to sound energy
- C. Potential energy is changed to sound energy
- D. Potential energy is changed to kinetic energy
- 20. The dodder on milk bush is an example of
- A. a plant parasite on animal host
- B. a plant parasite on plant host
- C. an animal parasite and a plant parasite
- D. an animal parasite on an animal host

- 21. Decay is an important biological process because it brings about the
- B. manufacture of cells of living organisms
- C. production of oxygen by plants
- D. release of nutrients from dead organisms
- 22. The darkest part of a shadow formed during an eclipse is called
- A. annular eclipse
- B. lunar eclipse
- C. penumbra
- D, umbra
- 23. Which of the following particles can be found in the nucleus of an atom?
- A. Electrons and protons
- B. Electrons and shells
- C. Neutrons and electrons
- D. Neutrons and protons
- 24. Which of the following substances is used to purify water for town supply?
- A Alcohol
- B. Carbon dioxide
- C. Chlorine
- D. Nitrogen
- 25. The shedding of leaves by plants during the dry season protects them against
- A, bush fire
- B. cold weather
- C. plant-eating animals
- D water loss
- 26. The volume of water in a container rises when a piece of stone is put into the container. The change in the volume of water is equal to
- A. mass of the container
- B. mass of the stone
- C. density of the stone
- D. volume of the stone
- 27. Which of the following carry deoxygenated blood in the body?
- A. Arteries
- B. Red blood cells

- C. Valves
- D. Veins
- 28. Which of the following forces will cause an object to move in a circular path?
- A. Centripetal force
- B. Gravitational force
- C. Inertial force
- D. Reaction force
- 29. The paired fins in fishes are used for
- A. protection and diving
- B. diving and balancing
- C. balancing and control
- D. balancing and steering
- 30. In which of the following is urine stored?
- A. Bladder
- B. Kidney
- C. Liver
- D. Penis and vagina
- 31. Photosynthesis occurs only in green plants because they
- A. absorb water
- B. are found in the tropics
- C, are very active
- D. contain chlorophyll
- 32. The food we eat undergoes slow oxidation in our bodies to produce heat. In this process
- A. chemical energy is converted to heat energy B. electrical energy is converted to heat energy
- C. kinetic energy is converted to heat energy
- D. mechanical energy is converted to heat energy
- 33. Which of the following planets is nearest to the earth?
- A. Jupiter
- B. Mercury
- C. Pluto
- D, Venus
- 34. Which of the following organs help to improve soil fertility?

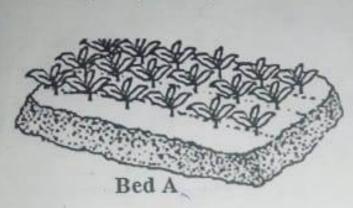
- Earthworms
- B. Guinea worms
- C. Hookworms
- D. Roundworms
- 35. A stone released from a catapult was able to kill a bird because
- A. the stone had a lot of energy
- B. the stone was sharp
- C. there was tension in the stone
- D. the rubber of the catapult was strong
- 36. Which of the following is a plant parasite?
- A. Capsid
- B. Caterpillar
- C. Dodder
- D. Louse
- 37. By the end of digestion, lean meat is turned into
- A. amino acids
- B. fatty acids
- C. glycerol
- 17. glucose
- 38. In which of the following electrical appliances is electrical energy mainly converted to heat energy?
- A. Cooker
- B Fan
- C. Refrigerator
- D. Tape recorder
- 39. The energy for lighting a torchlight bulb
- A. bulb
- B. cell
- C. filament
- D. glass
- 40. The largest component of sweat is
- A. glucose
- B. oil
- C salt
- D. water

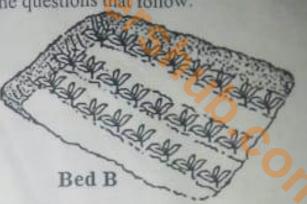
END OF PAPER

SECTION A [40 Marks]

Answer all of Question I

1. a. The diagrams below are prepared by Saps JHS 3 students in their School Garden. Carefully study the diagrams and answer the questions that follow.





i.	Identify t	he seed	beds A and	B.		
			200 117	16	- 14	

1 mark 2marks

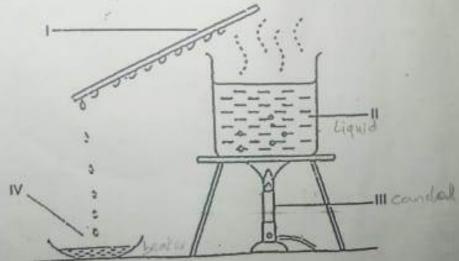
Name four tools used in preparing bed A and B. ii.

Smarks

State the steps involved in the preparation of the bed A and B. iii. State one benefit of bed A and B in vegetable production.

2marks

The diagram below is an experimental setup conducted by a Science Teacher at b. Excellent International School Science Laboratory. Study the diagram below carefully and answer the questions that follow.



i. Name the process demonstra	ted.
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2marks

Name the parts labelled I to IV. ii.

2marks 2mark

State the function of I and III. iii.

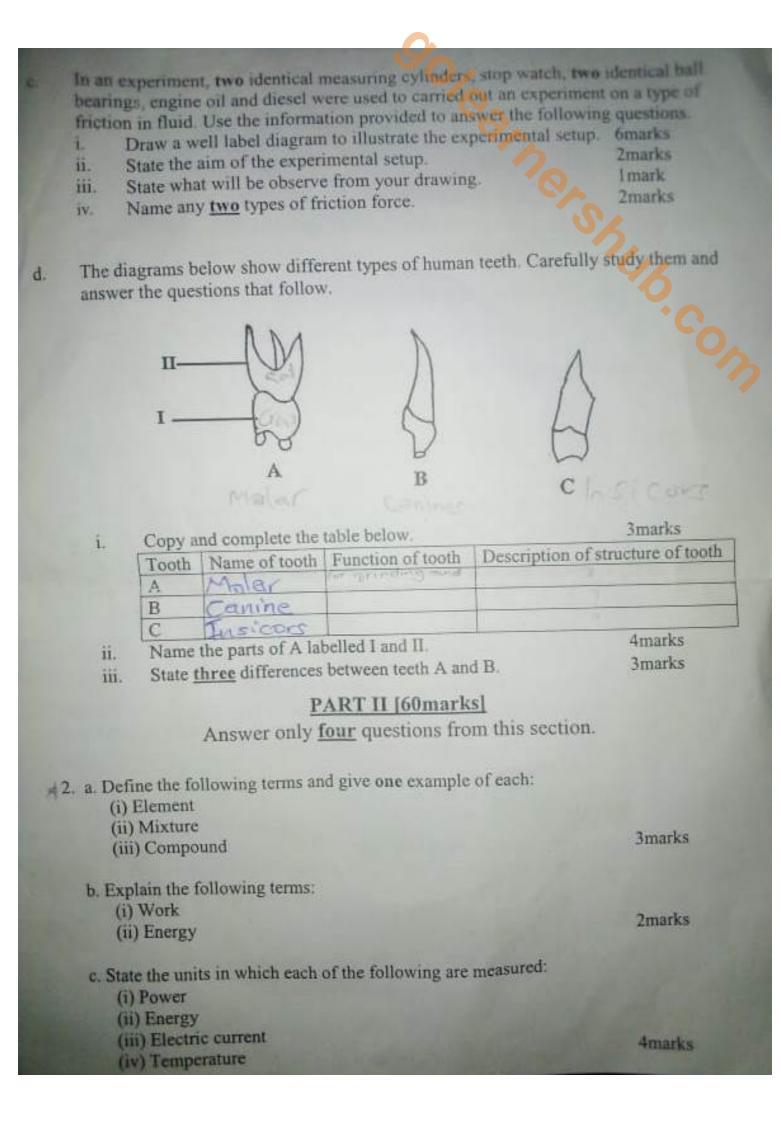
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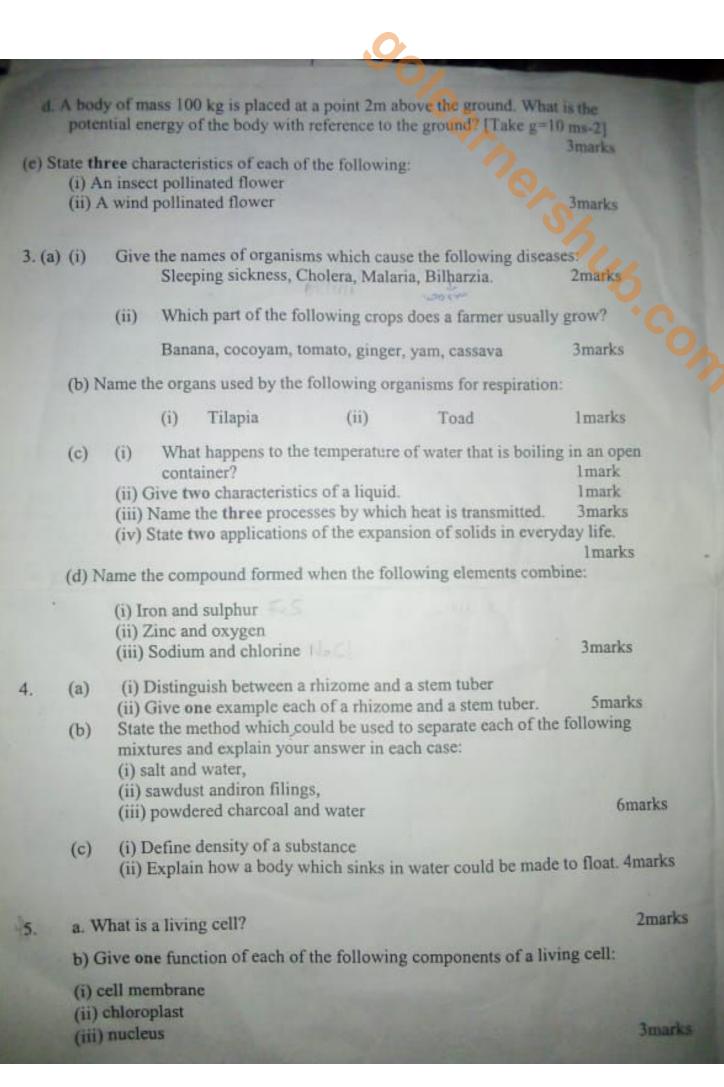
Define the process demonstrated. iv.

2marks

Name the state of change of matter that occurs in II and I.

iv.





90/0.

c) Make sketches to show the arrangement of the particles in each of the three states 6marks of matter. d) What instrument would you use to measure each of the following quantities: (i) volume of a liquid (ii) mass of a stone (iii) time (iv) speed of the wind? A ward Homemel C, 4marks (i) What is indiscriminate sex? (a) (ii) Give three reasons why teenagers indulge in indiscriminate sex. 4 marks (b) Name two sources each of (i) natural light 4marks (ii) artificial light (c) State three ways in which soil texture is important in crop production. (d) Write down the systematic name of each of the following chemical compounds: (i) FeS = Iron (I) Colphan (ii) CO

6.

(iii) Cu2O

(iv) NaOH > Sudrum hydroxide

END OF PAPER

4marks