

# K.C.P.E BOOSTER

STD. 8 TERM 3 - 2014

## SCIENCE

READ THESE INSTRUCTIONS CAREFULLY

- 1 Use an ordinary pencil only.
- 2 Make sure that you have written on the answer sheet.

Time: 1 Hr 40 Min.

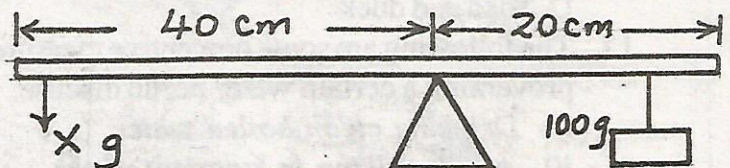
I. YOUR NAME

II. YOUR INDEX NUMBER

III. NAME OF YOUR SCHOOL

1. Which one of the following components of blood is involved in clotting after an injury?  
A. Red blood cells      B. White blood cells  
C. Platelets              D. Plasma
2. Which one of the following is a cereal crop?  
A. Coffee    B. Millet    C. Beans    D. Peas
3. A beam balance is used for \_\_\_\_\_  
A. comparing size of different objects  
B. comparing mass of different objects  
C. measuring volume of objects  
D. measuring heights of different objects
4. Which of the following does **NOT** require friction?  
A. Filling a knife  
B. Writing on chalk board  
C. When stopping a car  
D. Sliding on snow
5. The blood vessel through which deoxygenated blood flows to the heart is the \_\_\_\_\_  
A. aorta                      B. pulmonary vein  
C. vena cava                D. pulmonary artery
6. Which of the following consists of only parts of the human body where digestion takes place?  
A. Mouth and stomach  
B. Liver and stomach  
C. Large intestines and mouth  
D. Large intestines and liver
7. Which group consists of only problems related to teeth?  
A. Cavities, bleeding gums, tooth decay, dental formula  
B. Bleeding gums, plague, tooth decay, dental formula  
C. Gingivitis, bleeding gums, dental formula, cavities  
D. Bad smell, bleeding gums, cavities, tooth decay
8. The reason why some plants have thick waxy cuticle is to- \_\_\_\_\_

- A. trap more sunlight  
B. reduce water loss  
C. store manufactured food  
D. increase water loss
9. Which one of the following crops store food in the leaves?  
A. Irish potatoes      B. Cactus  
C. Onions                D. Cabbage
10. An experiment was carried out with a lever, a mass of 10 grams place 20 cm from the fulcrum and was balanced by a mass of x grams placed 40 cm from the fulcrum.



- Which value represented x in the above diagram?
- A. 50 g
  - B. 60 g
  - C. 2000 g
  - D. 200 g
11. Which group of plants correctly match with the type of a root system?  

<u>Fibrous roots</u>	<u>Tap root</u>
A. Wheat	grass
B. Black jack	tomato
C. Pine	acacia
D. Onion	carrots
  12. Std. six pupil from Kapsowar primary school identified simple machines and grouped them accordingly. Which one below has fulcrum between the load and the effort?



13. Which of the following group's of animals consists ONLY of invertebrates?
- Snails, frogs, spider, centipedes, star fishes
  - Earthworms, spiders, lizard, liver flukes
  - Leeches, slugs, star fish, sea urchins
  - Sea urchins, leaches, spider, ostrich
14. Which of the following statement is TRUE?
- Reptiles breathe through lungs
  - Birds have varying body temperature
  - Young ones of amphibians live on land
  - Fish have constant body temperature
15. Which one of the following are examples of carnivores, herbivores and omnivores respectively?

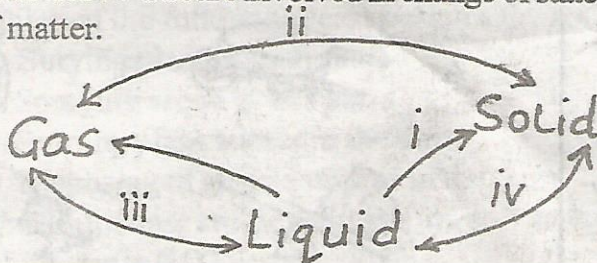
<u>Carnivores</u>	<u>Herbivores</u>	<u>Omnivores</u>
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- |              |              |            |
|--------------|--------------|------------|
| A. Buffalo   | Baboon       | Rhino      |
| B. Crocodile | Hippopotamus | Chimpanzee |
| C. Hyena     | Gorilla      | Leopard    |
| D. Baboon    | Monkey       | Rhino      |
16. Which of the following pairs consists only of animals with scales?
- Turtle and duck
  - Turtle and salamander
  - Salamander and toad
  - Toad and duck
17. The following are some preventive measures for preventing a certain water borne disease.
- Drinking clean boiled water.
  - Avoid walking in stagnant water.
  - Using latrines.
  - Proper hygiene and sanitation.
  - Wearing protective clothing on swampy areas.

Which preventive measures are likely to control spread of cholera?

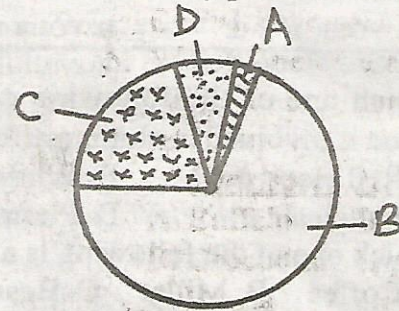
- i, ii
  - iii, v
  - iii, iv
  - i, iv
18. Heat transfer in gases and liquid takes place through a process of \_\_\_\_\_
- conduction
  - convection
  - radiation
  - conduction and radiation

19. The diagram below represents the processes I, II, III and IV that are involved in change of states of matter.

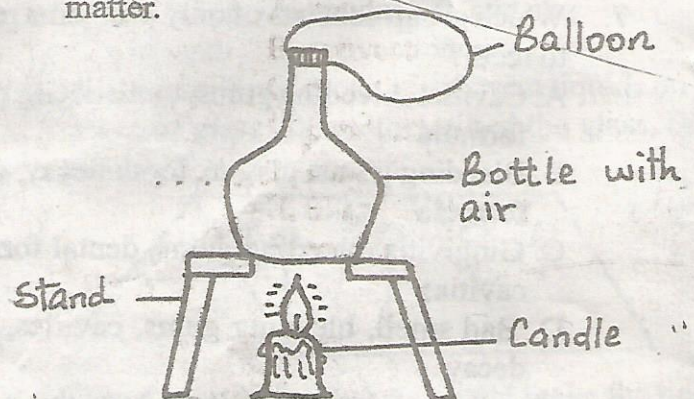


Which of the following correctly represents the processes?

- | I   | II | III | IV |
|---|----|-----|----|
| A. Freezing, condensation, sublimation, melting |    |     |    |
| B. Sublimation, freezing, melting, melting      |    |     |    |
| C. Freezing, sublimation, condensation, melting |    |     |    |
| D. Condensation, melting, sublimation, melting  |    |     |    |
20. The pie chart below shows the proportion of different gases in air. Which segment represents a gas that is used by plants to make food?



21. Which of the following factors make wax to float on water?
- Type of material
  - Mass of material
  - Size of material
  - Shape of material
22. Three of the following are non-magnetic materials, which one is NOT?
- Copper
  - Aluminium
  - Stainless spoon
  - Zinc
23. The following are activities carried out to investigate the effect of heat on a liquid.
- Placing the bottle on a source of heat.
  - Filling the bottle with coloured water.
  - Fixing a straw on the cork.
  - Closing the bottle tightly with the cork.
- Which one is the correct order of the activities?
- iii, iv, ii, i
  - ii, i, iii, iv
  - ii, iii, iv, i
  - iii, ii, i, iv
24. The diagram below shows a set-up that can be used to investigate the effect of heat on the matter.



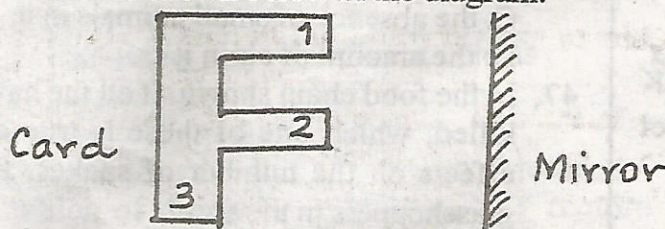
What was NOT noticed when heat was applied?

- A. The balloon erected up right  
 B. The air inside the bottle expanded  
 C. The balloon expanded and looked like a ball  
 D. The bottle broke into pieces
25. Std. 8 pupils of Suna Migori studied how sound travelled in different media. Study the pattern.

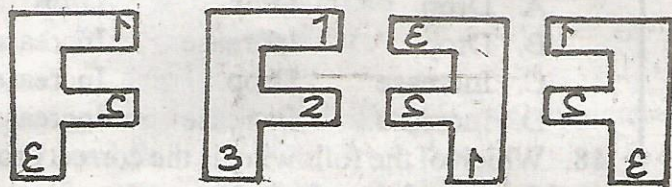
Fastest	Faster	Fast
Solids	Liquids	Gases
X	Y	Z

Which media represents X, Y, Z?

- A. Water, steel, air  
 B. Steel, tooth paste, air  
 C. Steel, air, ice  
 D. Air, steel, water
26. A card made in the shape of letter F and numbers 1, 2 and 3 written on it was placed in front of a mirror as shown below in the diagram.

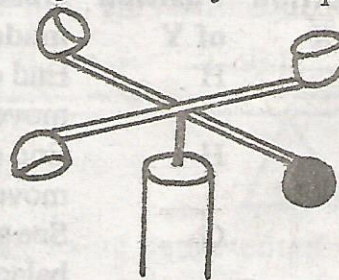


Which of the following correctly represents the image as shown in the mirror?



- A. B. C. D.
27. The reason why improved jikos have a clay lining is to \_\_\_\_\_
- A. reduce the amount of heat loss  
 B. make the jiko last longer  
 C. make charcoal light faster  
 D. reduce the space for charcoal
28. Which of the following explains the use of a fuse in an electric circuit?
- A. It protects one from shock  
 B. It prevents over heating of wires  
 C. It protects electrical appliances from damage  
 D. It completes the circuit
29. Which of the following groups of sources of energy are renewable?
- A. Water, firewood, dung  
 B. Charcoal, kerosene, saw dust  
 C. Diesel, wind, natural gas  
 D. Biogas, petrol, coal

30. Which food preservation methods are both traditional and modern?
- A. Refrigeration B. Drying  
 C. Honeying D. Canning
31. Which of the following is NOT a way of preventing food poisoning?
- A. Preheating food under hygienic conditions  
 B. Properly disposing of containers used to store chemicals  
 C. Ensure that all foods are covered  
 D. Covering mouth when talking and eating
32. A hilly area with deep channels is likely to be experiencing \_\_\_\_\_
- A. rill erosion B. splash erosion  
 C. gulley erosion D. sheet erosion
33. Which of the following diseases is MOSTLY experienced during adolescent stage in girls?
- A. Nausea B. Marasmus  
 C. Rickets D. Anaemia
34. The diagram below shows an anemometer. Std. 5 pupils from Lisuka primary school noticed that one of the caps was painted. Which of the following shows why one cap was painted?



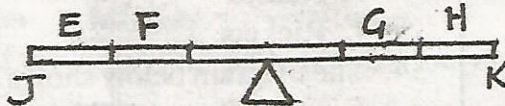
- A. In order to make it descent  
 B. In order to check on revolution  
 C. In order to reduce its speed  
 D. In order to increase its speed
35. The following are materials that can be used to make solar system. Which one is NOT?
- A. Sand B. Plasticine  
 C. Clay D. Ball gum
36. The main reason why lactating mothers should eat a balanced diet is \_\_\_\_\_
- A. to build child's immunity  
 B. to build mother's immunity  
 C. to improve on the temperature  
 D. to increase the quality and quantity of milk
37. Which one of the following is the CORRECT order of HIV/AIDS infection?
- A. Window, symptomatic, asymptomatic, full blown  
 B. Full blow, symptomatic, window, asymptomatic  
 C. Window, asymptomatic, symptomatic, full blown  
 D. Symptomatic, window, asymptomatic, full blown

38. Which of the following is a preventive measure against the spread of TB?
- Proper disposal of human waste
  - Living in a well ventilated house
  - Clearing bushes around house
  - Boiling drinking water

39. The following are characteristics of one of the clouds.
- Found very high in the sky.
  - Look like cotton wool.
  - Have flat base.

The cloud is likely to be \_\_\_\_\_

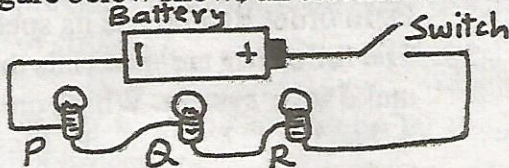
- cirrus
  - cumulus
  - nimbus
  - stratus
40. For two masses B and C, the mass of D was twice that of C. The set was used to investigate how the two masses balance at position E, F, G and H on a see saw.



Which of the following was correct observations about the investigation?

Position of X	Position of Y	Observation made
A. E	H	End of (J) moved down
B. F	H	End of (K) moved up
C. E	G	See saw balanced
D. F	G	End (K) moved down

41. The figure below shows an electric circuit.



If the switch is closed, bulb Q is removed to leave P and R in the circuit. What will happen?

- P and R get dimmer
  - P and R remain the same as before
  - P and R get brighter
  - P and R cannot light
42. Which of the following least pollutes the soil?
- Burying plastics in the soil
  - Spraying crops to kill pests
  - Burning plant wastes in the farm
  - Disposing of animal wastes in the farm
43. The following are advantages of soft water, which one is NOT?

- It uses less soap
  - It does not stain clothes and utensils
  - It is tasteless and doesn't contain many minerals
  - Pipes last long because no accumulation of salts
44. Which one of the following consists of materials with a definite volume and definite shape?
- Kerosene, cooking oil, milk
  - Paper, pin, ink
  - Water, bottle, stone
  - Sand, flour, sugar
45. The following are soil conservation methods. Which one is NOT?
- Afforestation
  - Mulching
  - Terracing
  - Uncontrolled grazing
46. Soil becomes water log due to \_\_\_\_\_
- the size of its particles
  - its colour
  - the absence of small animals in it
  - the amount of air in it

47. In the food chain shown, if all the hawks were killed, which one of these is true about the effects on the number of snakes, frogs and grasshoppers in the area?

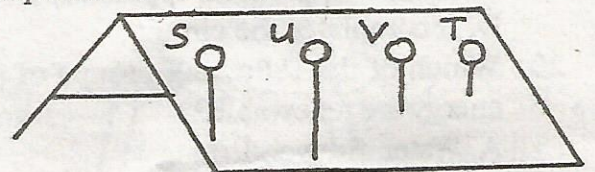
Grass → grasshoppers → Frogs → Snakes → Hawks

	<u>Snakes</u>	<u>Frogs</u>	<u>Grasshoppers</u>
A.	Drop	Drop	Drop
B.	Drop	Increase	Increase
C.	Increase	Drop	Increase
D.	Increase	Increase	Increase

48. Which of the following is the correct procedure that is used to obtain clear water from muddy water?
- Filtering and decanting
  - Evaporation and filtering
  - Decanting and filtering
  - Evaporation and decanting

49. To improve the drainage system of the soil, a farmer needs to \_\_\_\_\_
- add compost manure
  - add clay
  - add sand
  - add lime

50. Some pupils put drops of different liquids on a piece of glass. When they tilted the glass, the liquids flowed as shown!



Which one of the liquids would make the best lubricant?

- S
- U
- V
- T