

# KCPE PAST PAPERS 2009: SCIENCE QUESTIONS AND ANSWERS [QNS 1-25]

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## Question 01:

Which of the following components of blood is involved in clotting after an injury?

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- A plasma
- B white blood cells
- C red blood cells
- D platelets

## Question 02:

which one of the following shows the CORRECT order of the blood flow in the heart?

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- A vena cava-->pulmonary artery-->pulmonary vein-->aorta
- B pulmonary artery-->vena cava-->pulmonary vein-->aorta
- C pulmonary vein-->aorta-->pulmonary artery-->vena cava
- D aorta-->pulmonary vein-->vena cava-->pulmonary artery

## Question 03:

which one of the following pairs consists only of social effects of drug abuse?

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- A rape and truancy
- B lack of concentration and addiction
- C accidents and withdrawal
- D impaired judgment and loss of consciousness

## Question 04:

which one of the following statements is TRUE about the incubation stage of HIV infection?

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- A if HIV is carried out, the result is negative
- B this is the first stage of infection
- C there are no visible signs
- D The body cannot fight diseases

### Question 05:

which one of the following is NOT a CORRECT statement about a foetus?

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- A receives oxygen through placenta
- B the blood of the mother and that of the foetus mix
- C Receives food substances from the mother's blood
- D waste products are removed through the placenta

### Question 06:

which one of the following pairs of infectious consists only of those that are sexually transmitted?

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- A chancroid and HIV
- B gonorrhoea and bilharzia
- C syphilis and typhoid
- D gonorrhoea and tuberculosis

### Question 07:

a ruler placed slanting and partially immersed in water appears bent because light;

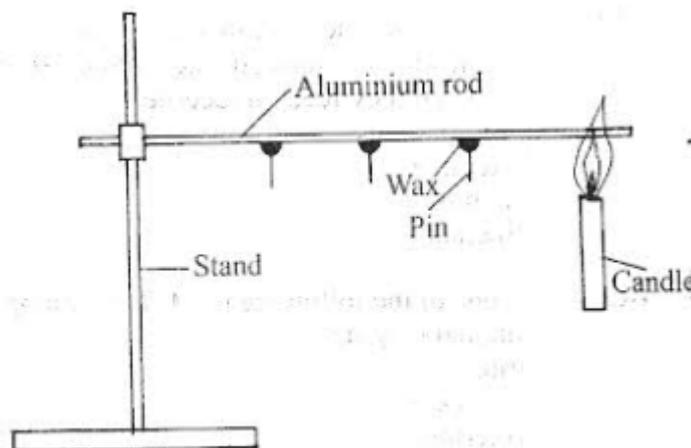
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- A from that part of the ruler under water is reflected
- B from that part of the ruler under water is refracted
- C from that part of the ruler under water is scattered
- D travels in a straight line in the same medium.

### Question 08:

the diagram below represents a set-up that can be used to demonstrate a certain aspect of heat

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The aspect demonstrated is that;

- A solids melt when heated
- B metals expand when heated
- C solids conduct heat
- D Metals bend when heated

### Question 09:

which one of the following is a storage pest?

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- A weaver bird
- B white ant
- C cut worm
- D aphid

### Question 10:

which one of the following stores food in the same part of the plant as Irish potato?

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- A carrot
- B sweet potato
- C sugarcane
- D cassava

### Question 11:

the embryo of a seed is made up of?

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- A plumule and testa
- B cotyledon and plumule
- C radicle and plumule
- D cotyledon and radicle

### Question 12:

the following are some characteristics of certain animals

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(i) *body covered with scales*

(ii) *lay eggs*

(iii) *body temperature vary with the surroundings*

(iv) *breathe through lungs*

Which of the following pairs of animals has **ALL** the characteristics listed?

- A turtle and sheep
- B lizard and tortoise

- C tilapia and frog
- D elephant and platypus

### Question 13:

which one of the following is the main constituent of a balanced diet obtained by animals which feed on lucerne?

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- A carbohydrates
- B protein
- C vitamins
- D minerals

### Question 14:

which one of the following is NOT an example of rotational grazing?

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- A strip
- B paddocking
- C tethering
- D herding

### Question 15:

the following are activities carried out when modelling the solar system, but not in their correct order.

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*(i) draw circles on manilla paper to show orbits*

*(ii) model the planets and the sun using clay*

*(iii) put name tags and models of planets and the sun*

*(iv) fix models of planets to orbits and the model of the sun at the centre*

*(v) paste manilla paper on the soft board*

Which one of the following is the **CORRECT** order in which the activities are carried out?

- A (i) (iii) (ii) (iv) (v)
- B (i) (iii) (ii) (v) (iv)
- C (ii) (iv) (iii) (i) (v)
- D (ii) (v) (i) (iv) (iii)

### Question 16:

the following are some uses of components of air:

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*(i) manufacture of electric bulbs*

*(ii) support burning*

*(iii) manufacture of soft drinks*

(iv) germination of seeds

(v) putting out fires

**Which of the uses are for carbon dioxide?**

- A (i) and (ii)
- B (ii) and (iv)
- C (iii) and (v)
- D (iii) and (iv)

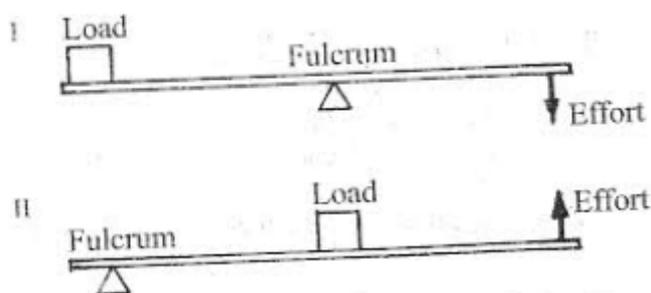
### Question 17:

**a certain machine when in use, can work with load, effort and fulcrum at different positions as shown in the diagrams I and II.**

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The machine is a

- A wheelbarrow
- B crowbar
- C spade
- D claw hammer



### Question 18:

**the following are methods of separating mixtures:**

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(i) picking

(ii) filtering

(iii) decanting

(iv) sieving

**Which two methods are suitable for separating a mixture of water and sand?**

- A (i) and (iii)
- B (i) and (iv)
- C (ii) and (iii)
- D (ii) and (iv)

### Question 19:

**which one of the following is a CORRECT food chain?**

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- A grass--> rabbit-->eagle-->>leopard
- B maize-->grasshopper-->lizard-->snake
- C grass-->grasshopper-->eagle-->rabbit
- D kales-->aphids-->weaverbird-->rabbit

### Question 20:

when pieces of paper are dropped above a fire, they rise. This is because:

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- A heat makes the paper lighter than air
- B paper expands when heated
- C Hot air carries the paper upwards
- D heat from the fire carries the paper upwards

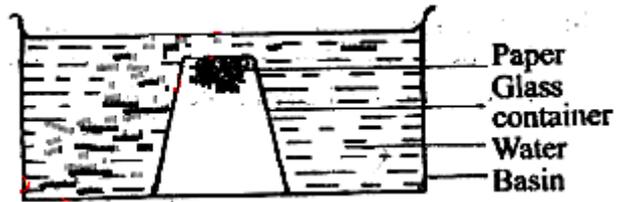
### Question 21:

The diagram below represents a set-up that was used to demonstrate a certain property of matter

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The property demonstrated was

- A air occupies space
- B water exerts pressure
- C Air has mass
- D water occupies space



### Question 22:

which one of the following materials allow light to pass but one cannot see through it clearly?

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- A frosted glass
- B mirror
- C clean water
- D milk

### Question 23:

which one of the following is the BEST method of managing plastic waste?

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- A burning
- B burying
- C recycling
- D reusing

### Question 24:

Which one of the following diseases can be prevented by wearing gumboots and gloves?

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- A typhoid
- B malaria

- C bilharzia
- D cholera

## **Question 25:**

**which one of the following practices is an advantage to the soil?**

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- A ploughing across the contours
- B disposal of vegetable refuse
- C burning of crop remains
- D use of herbicides