

PRIMARY SCIENCE

KCPE MODEL TEST PAPER ON PLANTS

Based on KCPE 2001-2010 Past Papers

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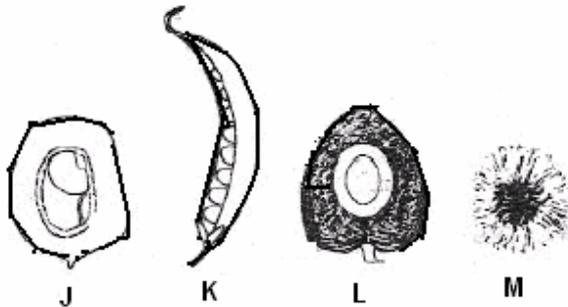
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1. Which one of the following make up the female part of a flower?
 - A. Stigma
 - B. Anthers, style and ovary
 - C. Stigma, filament and ovary
 - D. Stigma, style and ovary

2. Which one of the following DOES NOT describe pollination?
 - A. The transfer of pollen grains from anthers to ovary of the same flower
 - B. Transfer of pollen grains from the stigma to the anthers
 - C. Fussion of the pollen grains to the ovary
 - D. Movement of pollen in the style

3. Which of the following plants stores food in the roots?
 - A. Onion
 - B. Cassava
 - C. Ground nut
 - D. Irish potato

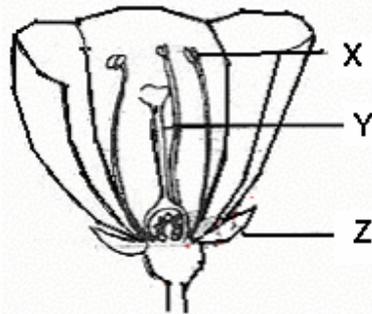
4. Diagram J, K, L, and M represents fruits and seeds.



Which of the following shows the CORRECT method of their dispersal?

- | J | K | L | M |
|-----------|--------|--------|--------|
| A. Water | Animal | Animal | Wind |
| B. Animal | Self | Water | Wind |
| C. Self | Animal | Wind | Animal |
| D. Water | wind | Animal | Self |

5. The diagram below shows parts of a flower.



Which parts are represented by X, Y and Z?

X	Y	Z
A. Anthers	Style	Sepal
B. Stigma	Filament	Petal
C. Anther	Filament	Sepal
D. Stigma	Style	Petal

6. The following are functions of roots.

- i) Holding plants in the soil
- ii) Storage of food
- iii) Absorption of water
- iv) Breathing

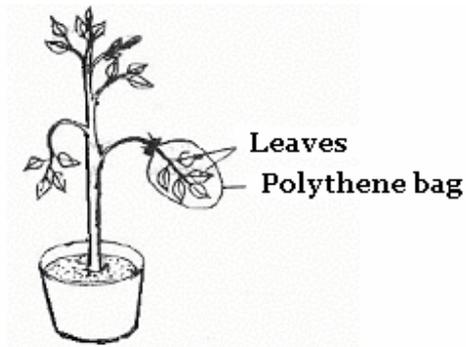
Which of the following are performed by all roots?

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

7. Which one of the following features would help a student tell that a plant structure is a fruit?

- A. Having a line of weakness
- B. Presence of two scars
- C. Being freshly
- D. Having one cotyledon

8. The set up below was used to investigate a certain process in plants.



The process investigated was?

- A. Saturation
- B. Transpiration
- C. Condensation
- D. Evaporation

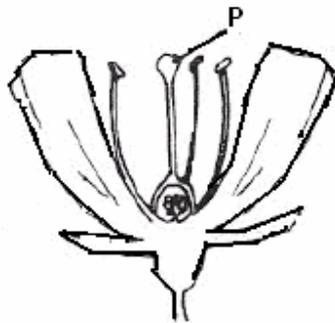
9. The characteristics below are observed in wind and insect pollinated flower.

- i. Sticky stigma
- ii. Smooth pollen grains
- iii. Sticky pollen grain
- iv. Scented
- v. Large quantity of pollen grains

Which of the above characteristics are for insect pollinated flowers?

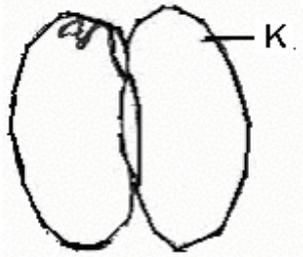
- A. (i) (iii) (iv)
- B. (i) (ii) (iv)
- C. (ii) (iv) (v)
- D. (iii) (ii) (v)

10. The diagram below represents parts of a flower. The function of the part labeled P is to?



- A. Lead pollen grains to the ovary
- B. Receive pollen grains
- C. Produce nectar
- D. Produce pollen grains

11. The diagram below represents parts of germinating seed.



The part labeled K

- A. Serves as the first leaves
 - B. Gives rise to shoot
 - C. Becomes root
 - D. Absorbs water for the young plants
12. Which of the following pairs of plants has root nodules?
- A. Maize and potatoes
 - B. Tomatoes and beans
 - C. Cabbage and millet
 - D. Groundnuts and beans
13. Which one of the following parts of a passion plant is modified for climbing?
- A. Leaf
 - B. Branch
 - C. Stem
 - D. Bud
14. Which one of the following describes cross-pollination?
- A. The transfer of pollen grains from the anther to the stigma of the same plant
 - B. The transfer of pollen grains from anthers to the stigma on another flower of the same plant
 - C. The transfer of pollen grains from anthers to the stigma of a different flower on plants of different kind
 - D. The transfer of pollen grains from the anther to the stigma of a different flowers on plants of the same kind
15. Which one of the following is part of the embryo of a seed?
- A. Cotyledon
 - B. Microphyle
 - C. Raddicle
 - D. Endosperm
16. Which of the following part of a flower is correctly matched with its function?
- | Part of flower | Function |
|-----------------------|------------------------|
| A. Stigma | Produces pollen grains |
| B. Pollen grains | Fertilizes ovules |
| C. Style | Supports stigma |
| D. Filament | Supports anthers |

17. Which of the following groups consists only plants with fibrous roots?

- A. Cow peas, rice carrot
- B. Rice, millet, maize
- C. Cow peas, maize, wheat
- D. Carrot, millet, wheat

18. The component of air used in making plants foods is:

- A. 0.03%
- B. 0.97%
- C. 21%
- D. 78%

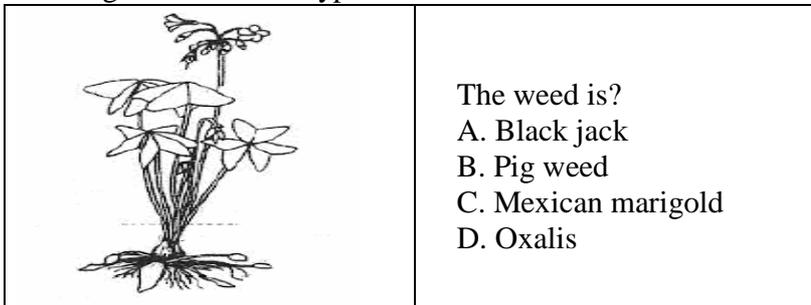
19. Fertilization in plants takes place when?

- A. A pollen grain enters the ovule
- B. Reproductive cells in the pollen grains and ovule fuse
- C. A pollen grain falls on the stigma and germinates
- D. A pollen tube enters the ovary

20. Which of the following plants have the same type of root system?

- A. Millet, cassava, carrot
- B. Bean, black jack, cabbage
- C. Tomato, maize, pees
- D. Ground nuts, rice, sugarcane

21. The diagram below is a type of weed.



22. Which of the following plant is green and non-flowering?

- A. Sisal
- B. Onion
- C. Mould
- D. Moss

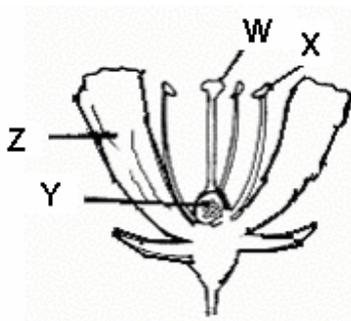
23. Which of the following plants is a cereal?

- A. Maize
- B. Peas
- C. Sunflower
- D. Coffee

24. Which of the following consists of plants that CAN NOT make their own food?

- A. Cedar and yeast
- B. Ferns and pine
- C. Puff balls and mould
- D. Toad stool and moss

25. The diagram below shows parts of a flower



Which of the labeled parts of flower is NOT correctly matched with the function?

- | Part | Function |
|------|--|
| A. W | receives pollen grains |
| B. X | produces pollen grains |
| C. Y | develops into a seed after fertilization |
| D. Z | protects the inner parts of a flower |

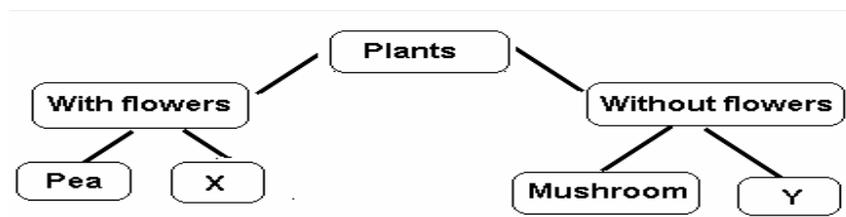
26. Which of the following parts of maize grain correctly matched with its function?

- | Part | Function |
|--------------|---------------------|
| A. Radicle | Develops into shoot |
| B. Endosperm | Stores food |
| C. Endosperm | Makes food |
| D. Plumule | Develops into root |

27. Which of the following consists of characteristics of insects pollinates flowers

- A. Sweet scented, large number of pollen grains
- B. Brightly coloured petals, sticky pollen grains
- C. Large pollen grains, sweet scented
- D. Brightly coloured petals, light pollen grains

28. Which of the following stores food in the same part of the plant as irish potato?
- Onion
 - Sweet potato
 - Sugarcane
 - Cassava
29. The embryo of a seed is made up of;
- Cotyledon and radicle
 - Plumule and testa
 - Raddicle and plumule
 - Cotyledon and plumule
30. The main reason why black jack weed should be protected from vegetable farm when they are still young is?
- To avoid loss of soil nutrients
 - Because it is easy to uproot the weed
 - To reduce loss of water
 - To control spread of the weed
31. The chart below shows a classification of plants.



Which one of the following pairs represents X and Y?

- | | |
|----------|---------|
| X | Y |
| A. Fern | Algae |
| B. Wheat | Cypress |
| C. Bean | Maize |
| D. Moss | pawpaw |
32. The percentage of the component of air that is fixed by bacteria in the root nodules to make nutrients for the plant is?
- 0.03%
 - 0.97%
 - 21%
 - 78%
33. Which of the following plants has separate male and female flower?
- Sorghum
 - Maize

- C. Oranges
 - D. Sisal
34. The leaf of a cactus plant
- A. Reduces water loss
 - B. Makes plant food
 - C. Stores water
 - D. Allows gaseous exchange
35. Which one of the following is a leguminous plant?
- A. Cabbage
 - B. Maize
 - C. Ground nut
 - D. Tomato
36. Which one of the following groups consists of non-flowering plants?
- A. Pine, cedar, cypress
 - B. Sugarcane, sisal, onion
 - C. Cedar, moses, kale
 - D. Carrot, cassava, cactus
-

ANSWERS

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