

# K.C.P.E FINAL TRI STANDARD EIGHT 20

### SCIENCE

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### READ THESE INSTRUCTIONS CAREFULLY

- 1 You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions.
- 2. Do any necessary rough work in this booklet.
- 3. When you have chosen your answer, mark it on the ANSWER SHEET, not in the question booklet.

#### HOW TO USE THE ANSWER SHEET

- 4. Use an ordinary pencil.
- 5. Make sure that you have written on the answer sheet:

YOUR INDEX NUMBER.

YOUR NAME

#### NAME OF YOUR SCHOOL

- By drawing a dark line inside the correct numbered boxes mark your full Index Number (i.e. School C is Number and the three-figure Candidate's Number) in the grid near the top of the answer sheet.
- 7. Do not make any marks outside the boxes.
- 8. Keep your answer sheet as clean as possible and do not fold it.
- For each of the Questions 1 50, four answers are given. The answers are lettered A, B, C and D. In each
  case only ONE of the four answers is correct. Choose the correct answer.
- 10. On the answer sheet the correct answer is to be shown by drawing a dark line inside the box in which the letter you have chosen is written.

#### Example

#### In the Question Booklet:

- 14. The process by which plants lose water to the atmosphere is called
  - A. capillarity
  - B. diffusion
  - C. transpiration
  - D. evaporation

The correct answer is C (transpiration)

#### On the answer sheet:

4 AUBRICHDI 14 (AUBRICHD) 24 (AUBRICHD) 34 (AUBRICHD) 44 (AUBRICHD)

In the second set, the box with the letter C printed in it is marked.

- 11. Your dark line MUST be within the box.
- 12. For each question ONLY ONE box is to be marked in each set of four boxes.

This question paper consists of 7 printed pages

Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing

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- 1. Which one of the following is the role of the rectum in human body?
  - A. Absorbing digested food.
  - B. Storing roughages.
  - C. Storing undigested food temporarily.
  - D. Absorbing water.
- 2. Which one of the following components of a balanced diet have no nutritive value?
  - A. Carbohydrate
  - B. Roughage
  - C. Vitamin
  - D. Mineral salt

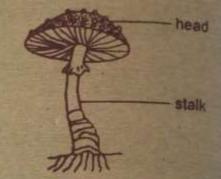
3. Which one of the following animal is CORRECTLY matched with its products.

- Animal A. Goat
- B. Beef cattle C. Sheep

D. Pig

- Product Mutton Milk Mohair Skin
- 4. If the soil is heated in a glass test tube and a bad smell and smoke is seen rising out from the tube. This shows that the soil contains A. alot of air
  - B. alot of moisture
  - C. living organisms
  - D. dead decaying matter
- 5. Which one of the following is the BEST way of controlling aphids and cutworms in the field?
  - A. Handpicking
  - B. Scaring
  - C. Spraying
  - D. Trapping

The figure below represent a certain type of plant.



Which one of the following is NOT of its characteristics?

- A. It is a flowerless plant.
- B. It is a useful fungi

6.

- C. It's a non green plant.
- D. It is an insectivorous plant.
- Which one of the groups of foods consist of 7. body building food ONLY?
  - A. Maize, melon and potatoes
  - B. Termite, groundout and beef
  - C. Soda, chips and chicken
  - D. Milk, beans and millet

One centimeter piece of wood floats on water 8. while one centimeter piece of iron sink. This happen because of their difference in

- A. shape
- B. size
- C. material
- D. weight

9.

Which one of the following is an effect of water pollution to non living things?

- A. Corrosion of iron shcet.
- B. Waterborne disease.
- C. Death of animals in water.

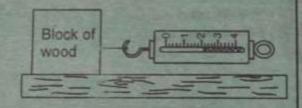
D. Lead to growth of water weeds.

10. Which of the following shows magnetic materials ONLY?

- A. Aluminium, copper, glass
- B. Steel, iron, tin
- C. Iron, zinc, tin
- D. Glass, steel, iron

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- 11. Two ballons rubbed on the same material are brought close to each other. What was LIKELY to have been observed?
  - A. The ballon burst.
  - B. They attracted each other.
  - C. They repelled each other.
  - D. There was no change.
- 12. Which one of the following animal feeds is a preserved fodder crops?
  - A. Lucerne
  - B. Bonemeal
  - C. Mollasses
  - D. Hay
- 13. Which one of the following changes occurs in boys ONLY during adolescence?
  - A. Releasing of mature sex cell.
  - B. Broadening of hips.
  - C. Quick growth.
  - D. Growth of hair on the chest and face.
- 14. The figure below represent an equipment being used to measure a certain aspect of the block of wood.



The aspect being measured is the

- A. mass
- B. weight
- C. volume
- D. pressure
- 15. Which one of the following is NOT an effect of unhealthy crop?
  - A. Robust growth.
  - B. Low quality produce.
  - C. Transmission of disease
  - D. Decreased yield.

- 16. Which one of the following statement about birds and reptiles is TRUE?
  - A. Both are invertebrate.
  - B. They are warm blooded.
  - C. Lay fertilized eggs.
  - D. Have moist skin.
- 17. Which one of the following machines uses the principle of slopes?
  - A. Wheelbarrow and crowbar
  - B. Pulley and contour road
  - C. Claw hammer and spade
  - D. Ladder and staircase
- 18. When a pollen grain falls on the stigma. Which one of the following happens immediately?
  - A. Breaking of pollen tube.
  - B. Fusion of ovules and grains
  - C. Germination of pollen tube
  - D. Pollination of pollen grains
- 19. Which one of the following is brought by refraction of light?
  - A. Formation of image.
  - B. Using of periscope.
  - C. Swimming pools appears shallower.
  - D. Bouncing of light.
- 20. Which one of the following is the fourth and sixth planets from the sun?
  - A. Earth and Saturn.
  - B. Jupiter and Uranus
  - C. Venus and Neptune
  - D. Mars and Saturn
- 21. The soil that make the shortest ribbon also
  - A. best capillarity
  - B. spread easily
  - C. has rough texture
  - D. has moderate drainage

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- 22. The following are characteristics of a certain plant
  - (i) Flesh stems (it) Sunken stomata (iii) Shallow fibrous root (iv) Thin cuticle

Which of the above characteristics are LIKELY to be found in a cactus plant? A. (iii) and (ii)

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

23. A gas that cover approximate 20% of the environment is used in

- A. germination
- B. preserving soft drinks
- C. photosynthesis
- D. making bulbs

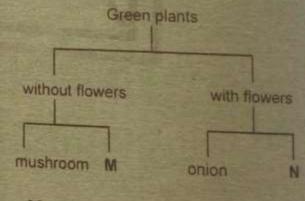
24. Which one of the following is NOT a way of maintaing all simple tools?

- A. Proper storage.
- B. Sharpening after use
- C. Cleaning after use.
- D. Proper usage.
- 25. Which one of the following sources of current electricity work the same as a dynamo?
  - A. Petrol driven generator
  - B. Solar panel
  - C. Wind driven turbine
  - D. Torch battery

26. When salt is used to preserve food, the food is

- A. cooled
- B, coated
- C. canned
- D. dehydrated

- 27. Which one of the following pairs of animals are omnivores?
  - A. Human beings and hippopotamus
  - B. Crocodile and gorrilla
  - C. Monkey and rhinos
  - D. Pig and chimpanzees
- 28. Which two blood vessels carry bright coloured blood?
  - A. Pulmonary artery and pulmonary vein
  - B. Aorta and pulmonary vein.
  - C. Pulmonary artery and aorta
  - D. Aorta and venacava
- 29. Which one of the following pairs of diseases are infants immunised against at 10 weeks? A. Tetanus and Polio
  - B. Measles and Diptheria
  - C. Pertosis and Yellow fever
  - D. Tuberculosis and Polio
- 30. The diagram below shows a simple classification of plants. Which one of the following pairs represents N and M?



N

Beans

Moss

Sisal

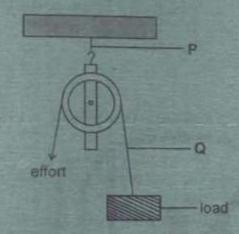
	M	
A.	Onions	
B.	Potatoes	
C.	Cypress	
	Maize	

- Algae 31. Which one of the following is a sign of food poisoning?
  - A. Skin rashes
  - B. Swollen body part
  - C. Blood in stool
  - D. Fever

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- 32. Which one of the following is a function of amniotic fluid?
  - A. Facilitates transfer of food.
  - B. Connect the embryo to the placental
  - C. Facilitates movement of foetus
  - D. Facilitates transfer of waste product.
- 33. Which one of the following is NOT correct about the simple tool shown below.



- A. The load is twice the effort used.
- B. Make work easier by changing the direction of applied force.
- C. The load move in the opposite direction to that of the load.
- D. The effort distance is equal to load distance.

34. Which one of the following is an effect of HIV/AIDS to an individual?

- A. Poor economy.
- B. Lack of parental care.
- C. Sadness in the family.
- D. Loss of income.

35. Which one of the following is NOT a way of conserving soil?

- A. Planting cover crops.
- B. Contour ploughing.
- C. Ploughing across the contour.
- D. Terracing.

- The following are steps of making a beam balance but not in correct order.
  - (i) Fix the stand and arm to the base
  - (ii) Suspend the tins on both sides of the arm

(iii)Make a base, a stand and the orm.
 (iv)Suspend the arm to find the balancing point.

Which one of the following is the **CORRECT** order A. (iii), (iv), (i), (ii) B. (ii), (i), (iii), (iv) B. (iii), (iv), (ii), (i) D. (iv), (iii), (i), (ii)

- The LAST energy transformation in a radio using dry cell is
  - A. magnetic energy
  - B. chemical energy
  - C. electric energy
  - D. sound energy

38. Which one of the following is made of major components of the environment ONLY?

- A. Light, animal, air
- B. soil, water, animal
- C. Animal, plants, building
- D. Sound, light, air

39. Animals that live in the soil gets oxygen from

- A. water
- B. plants
- C. air
- D. soil

40. Which one of the following is an effect of

- livestock disease?
- A. Lower yield
- B. Rough coat
- C. Stunted growth
- D. Blood in stool

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- 41. Which one of the following is TRUE about heat transfer by conduction? It takes place in
  - A. solid and liquids
  - B. gases only
  - C. liquids and gases
  - D. solid only

42. A card with the word MAIZE written on it placed in front of a mirror. Which one of the following shows how the word would appear in the mirror?

- A. MAISE
- B. JSIAM
- C. MAIZE
- D. ESIAM

43. Which one of the following consists ONLY characteristics of wind pollinated flowers?

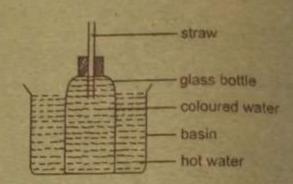
- Sweet scented and large number of pollen grains.
- B. Sticky stigma and hanging anthers.
- C. Small in size and sticky pollen grains,
- D. Light pollen grain and dull petals.

 The reason why coloured water is used in the construction of the liquid thermometer is

- A. to expand faster.
- B. to make it absorb heat
- C. make it visible.
- D. increase density.

45. The diagram below represents a set up to demonstrate a certain aspect of matter

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Which one of the following is LIKELY to occur after some time?

- A. Glass bottle expanded
- B. The level of hot water dropped in the basin.
- C. Hot water entered the glass bottle.
- D. Coloured water rose in the straw.
- 46. Which one of the following is a way of using energy sparingly?
  - A. Switching off bulbs when not in use.
  - B. Using a jiko with a clay lining.
  - C. Using charcoal to cook food.
  - D. Using non renewable sources.
- 47. Which one of the following is a COMMON water borne disease in areas with stagnant water?
  - A. Typhoid
  - B. Malaria
  - C. Bilharzia
  - D. Cholera

**48.** Which one of the following pair of plants uses nitrogen to make protein?

- A. Groundnuts and green gram
- B. Millet and sorghum
- C. Tomatoes and beans
- D. Maize and potatoes

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- 49. Which one of the following materials can be recycled?
  - A. Ash
  - B. Cowdung
  - C. Broken glasses
  - D. Coffee husk
- 50. The diagram below represent parts of a flower.



Which one of the following processes take place in part labelled R?
A. Production of pollen grain.
B. Germination of pollen grain.
C. Breaking of pollen tube.
D. Fusion of the sex cells.

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