

Mirr 007

TARGETER KCPE PREDICTION ONE

STANDARD EIGHT - YEAR 2021

SCIENCE

Time: 1 hour 40 mins

INSTRUCTIONS TO CANDIDATES (Read these instructions carefully).

1. You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions. Do any necessary rough work in this booklet.

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 only.
5. Make sure that you have written on the answer sheet:
- YOUR INDEX NUMBER**
YOUR NAME
NAME OF YOUR SCHOOL
6. By drawing a dark line inside the correct numbered boxes, mark your full Index Number (ie. School Code 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.
9. For each of the questions 1-50, four answers are given. The answers are lettered A, B, C, D. In each case, only ONE of the four answers is correct. Choose the correct answer.
10. On the answer sheet, show the correct answer by drawing a dark line inside the box in which the letter you have chosen is written.

Example:

In the Question Booklet:

16. Which of the following is the second stage of fetal development?

- A. Fetus
B. Embryo
C. Baby
D. Zygote

The correct answer is **B**.

On the Answer sheet:

A B C D

In the set of boxes number 16, the box with letter B 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.

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WILMINGTON STATE UNIVERSITY PREDICTION ONE - GRADE 2021

TURN OVER

INSTRUCTIONS

Time: 1 Hour 45 mins

Read these instructions carefully.

1. We have been given this question booklet and a separate answer sheet. The question booklet contains 20 questions.
2. Do any necessary rough work in this booklet.
3. When you have chosen your answers write them on the ANSWER SHEET, not in the question booklet.

WRITE THE LETTER OF YOUR CHOICE IN THE ANSWER SHEET.

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

WRITE YOUR NAME AND

YOUR SCHOOL

NAME ON YOUR ANSWER SHEET.

KCPE

6. By drawing a dark line inside the correct answer choice, write your full name, Member (i.e. School Code Number and the Over-50s Candidate's Number) in the grid near the top of the answer sheet.
7. Do not make any marks outside the lines.

PREDICTION ONE

10. On the answer sheet, show the correct answer by drawing a dark line inside the box in which the letter you have chosen is written.

Example:-

In the Question Booklet

10. Which of the following is the most fertile soil?

- A. Alluvial
- B. Red
- C. Sandy
- D. Igneous

The correct answer is B.

On the Answer sheet:

A B C D

In the set of boxes opposite the top, write your name in pencil in 20 minutes.

11. Use dark line PENCIL only within the lines.
12. For each question, choose only one letter to be marked in each set of the lines.

This question paper consists of 7 printed pages.



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1. Clouds that are dark grey in colour
 A. indicate fine weather.
 B. have a flat base.
 C. appear low in the sky.
 D. look like bundles of cotton wool.
2. The following are advantages of soft water **except** one. Which one is it?
 A. Less soap is used.
 B. Does not contain minerals.
 C. Lathers easily with soap.
 D. Less energy is used when washing.
3. Soil pollution is caused by all the following **except**
 A. treated sewage.
 B. floods.
 C. acid rain.
 D. excess fertilizers.
4. Which among the following animals has scales on its body?
 A. Newt
 B. Lizard
 C. Toad
 D. Whale
5. Class four pupils set up an experiment as shown below.

\$\$\$\$ → Smoke

Soil → 

Which component of soil were they investigating?

- A. Water and air.
 B. Living organisms.
 C. Organic matter.

6. Soil erosion depends on all the following factors **except**
 A. the slope of the land.
 B. type of soil in an area.
 C. mineral content of the soil.
 D. plant cover in an area.
7. Plants depend on each other for the following **except**
 A. habitat
 B. shelter
 C. support
 D. air
8. Which of the following mixtures can be separated by sieving?
 A. Flour and maize grains.
 B. Sand and water.
 C. Sorghum and husks.
 D. Beans and maize.
9. An insect pollinated flower has one of the following characteristics. Which **one**?
 A. Has powdery pollen grains.
 B. Produces nectar.
 C. Has dull petals.
 D. Produces many pollen grains.
10. Which pair of liquids will mix with milk and engine oil respectively?

- A. Methylated spirit, diesel.
 B. Cooking oil, water.
 C. Ink, water.
 D. Diesel, water.

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ck is **not** an immediate sign?

- A. Coughing.
- B. Stunted growth.
- C. Blood in stools.
- D. Rough coat.

11. Clouds that are dark grey in colour
 12. Indicate how weather
 13. Have a hot breeze.
 14. How low in the sky.
 15. Look like bundles of cotton wool

▶ EIT 007

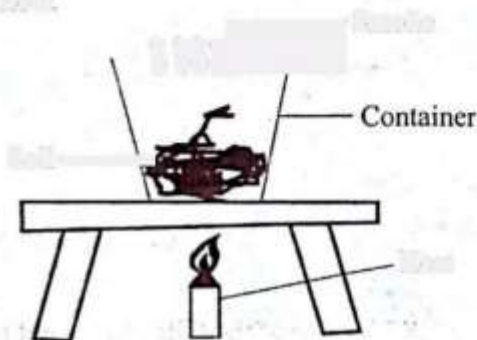
6. Soil erodes rapidly on all the following slopes except
 A. the slope of the land.
 B. type of soil in an area.
 C. mineral content of the soil.
 D. plant cover in an area.

7. ...the advantages of soil ...
 8. ...Which one is ...
 A. Does not ...
 B. Does not ...
 C. ...
 D. ...

9. Soil pollution is caused by ...
 A. treated sewage.
 B. ...
 C. ...
 D. ...

10. Which among the following animals has ...
 A. ...
 B. ...
 C. ...
 D. ...

11. Give the parts set up an experiment as shown below:



- Which component of soil was they investigating?
 A. ...
 B. ...
 C. ...
 D. ...

12. Plants depend on each other in the following ways
 A. ...
 B. ...
 C. ...
 D. ...

13. Which of the following substances can be ...
 A. ...
 B. ...
 C. ...
 D. ...

14. An insect pollinated flower has one of the following characteristics. Which one?
 A. ...
 B. ...
 C. ...
 D. ...

15. Which pair of glands will mix with ...
 A. ...
 B. ...
 C. ...
 D. ...

16. Which of the following signs of ill health is ...
 A. ...
 B. ...
 C. ...
 D. ...

12. Class five pupils carried out the experiment below.

Wax

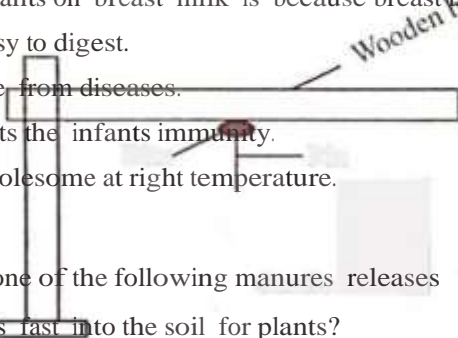
Pin

C,ndl, __ J

After sometimes the wax melted and the pin fell off. This was **mainly** because of

- A. conduction of heat.
 - B. radiation and convection of heat.
 - C. dispersion of heat.
 - D. convection of heat.
13. Which of the animals below is a herbivorous animal?
- A. Pig
 - B. Dog
 - C. Chimpanzee
 - D. Hippopotamus
14. Which method of food preservation below is **both** a modern and a traditional method?
- A. Refrigeration
 - B. Salting
 - C. Smoking
 - D. Use of low temperatures
15. Among the following examples of states of matter, which one does **not** have definite volume?
- A. Sand particles.
 - B. Water.**
 - C. Smoke.
 - D. Ice.

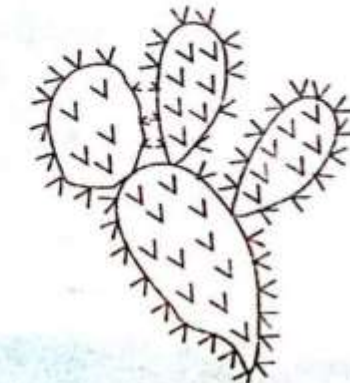
16. The main reason why mothers are advised to feed their infants on breast milk is because breast milk
- A. is easy to digest.
 - B. is free from diseases.
 - C. boosts the infants immunity.
 - D. is wholesome at right temperature.



17. Which one of the following manures releases nutrients fast into the soil for plants?
- A. Farm yard manure.
 - B. Compost manure.
 - C. Green manure.
 - D. Urea.

18. All the following excretory products are removed by the skin except
- A. excess water.
 - B. excess salts.
 - C. lactic acid.
 - D. carbon dioxide.

19. The diagram below represents a plant that is able to grow in a dry habitat.



19. Which one of the following manures releases nutrients fast into the soil for plants?
- A. Farm yard manure.
 - B. Compost manure.
 - C. Green manure.
 - D. Urea.
20. Which one of the following is **not** an adaptive feature found in the above plant?
- A. Green stem for making food.
 - B. Thick waxy cuticle on the stem.
 - C. Succulent stem for storing water.
 - D. Has thin leaves to make food.

**SCIENCE STD.S
TURN OVER**

**SCIENCE STD.S
TURN OVER**



20. Which group below consists of **only** diseases that are immunisable?

- A. Whooping cough, Tuberculosis, Bilharzia
- B. Measles, Tetanus, Malaria
- C. Yellow fever, Tuberculosis, Diphtheria.
- D. Cholera, Malaria, Poliomyelitis

- C. Lung worms
- D. Hookworms

21. Which one of the following pairs of plants is correctly matched with the type of root system? **Taproot** **Fibrous root**

- | | |
|--------------|---------|
| A. Grass | Maize |
| B. Blackjack | Cabbage |
| C. Coconut | Acacia |
| D. Kales | Onions |

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22. In a food chain green plants represent the

- A. primary consumers.
- B. secondary consumers.
- C. primary producers.
- D. tertiary consumers.

23. Which one of the following livestock parasites attacks the liver and lungs of livestock?

- A. Liverfluke
- B. Tapeworms

24. The diagram below shows an excretory system in human being.

- A. Whooping cough, Tuberculosis, Malaria
- B. Measles, Typhoid, Cholera
- C. Yellow fever, Tuberculosis, Malaria
- D. Cholera, Malaria, Tuberculosis

- The parts labelled **W**, **X** and **Y** respectively are:
- A. Kidney, bladder, urethra
 - B. Urethra, kidney, ureter
 - C. Ureter, bladder, urethra
 - D. Urethra, bladder, ureter

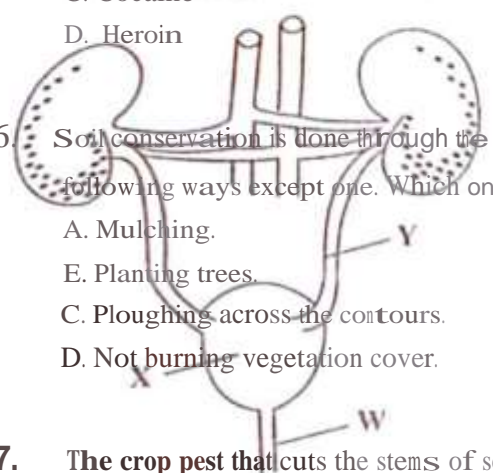
Three of the following are all illegal drugs. Which one is not? A. Bhang

- B. Ganja
- C. Ganja
- D. Ganja

25. The diagram below shows an excretory system in human being.

26. Soil conservation is done through the following ways except one. Which one?

- A. Mulching.
- E. Planting trees.
- C. Ploughing across the contours.
- D. Not burning vegetation cover.



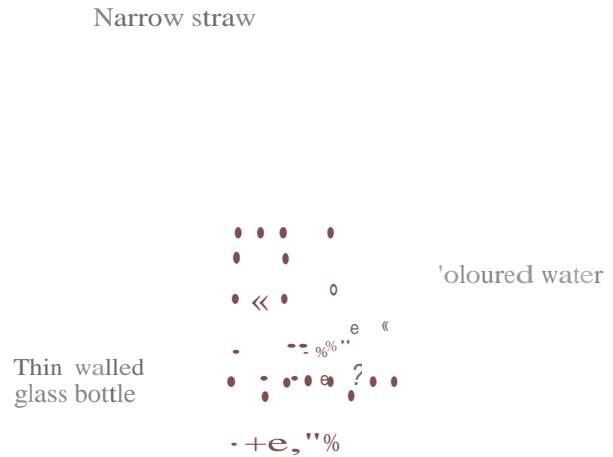
27. The crop pest that cuts the stems of seedlings is called

- A. cutworm
- B. aphids
- C. weevil
- D. stalkborer

SCIENCE STD. 5

28. A person in the incubation stage of HIV infection will show
- signs and test negative.
 - no signs and test negative.
 - signs, symptoms and test positive.
 - no signs, no symptoms and test positive.
29. A bird that has flat serrated beak is **likely** to feed on
- nectar
 - grains
 - filtering foods from water
 - flesh
30. Educating masses is a way of controlling the spread of HIV and AIDS. It can be carried out through all the following ways **except**
- public rallies.
 - job interviews.
 - seminars.
 - weddings.
31. Which group of animal feeds below provides livestock with mineral salts **only** when fed?
- Green fodder and honey.
 - Bonemeal and salt lick.
 - Bran and molasses.
 - Fish meal and lucern.
32. which one of the following parasites does **not** attack pigs?
- Louse
 - Flea
 - Mite
 - Tick.s

33. The diagram below shows a weather instrument made by std. 5 pupils.



The weather instrument did not function well because

- they used a scale reading from top to bottom.
 - they used a narrow straw
 - they used a thin walled glass bottle.
 - they used coloured water.
34. Which of the following transformation of energy occurs in the electromagnet?
- Electrical \gg Magnetic \gg Chemical Heat
 - Chemical Electrical \gg Magnetic \gg Light
 - Chemical – Electrical + Electromagnet
 - Electrical + Chemical \gg Magnetic
35. A machine
- reduces the amount of work.
 - increases effort used.
 - makes work easier.
 - increases the amount of work done.

28. A person in the incubated stage of HIV infection will show
- A. signs and test negative.
 - B. signs, symptoms and test positive.
 - C. signs, symptoms and test positive.
 - D. no signs, no symptoms and test positive.

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29. A soil that has the rounded bank is likely to
- A. water
 - B. gases
 - C. filtering fluids from water
 - D. soil

30. Whomping mouse is among the following species of HIV and AIDS. It can be spread through all the following except
- A. phlebotomus.
 - B. job interviews.
 - C. umbilicus
 - D. wallings.

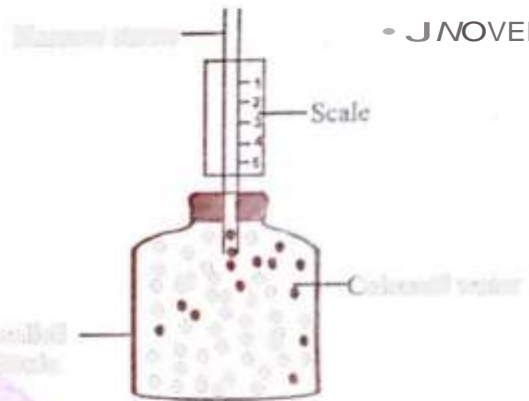
31. Which group of animal foods below provides livestock with mineral salts only when left
- A. Green fodder and hay.
 - B. Ruminant and salt soil.
 - C. Hay and molasses.
 - D. Salt water and leaves.

32. Functions of the Whomping mouse include
- A. Borne
 - B. Flies
 - C. Hubs
 - D. Soils

33. The diagram below shows a weather instrument with a still. It reads

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34. The weather instrument will not function well if
- A. the stem is not a wide rod.
 - B. the stem is not a narrow stem.
 - C. the stem is not a file-walled glass bottle.
 - D. the stem is not a wide rod.

35. Which of the following transformation of energy occurs in the electrocatalyst
- A. Electrical - Magnetic - Chemical - Heat
 - B. Chemical - Electrical - Magnetic - Heat
 - C. Chemical - Electrical - Electromagnet
 - D. Electrical - Chemical - Magnetic

36. A catalyst
- A. reduces the amount of work.
 - B. increases effect work.
 - C. reduces work done.
 - D. increases the amount of work done.

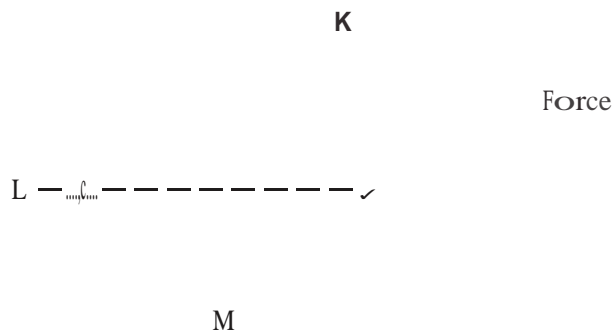
SCIENC STD.8

- JNOVER

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36. A class 7 pupil tried to push a box towards the direction shown by force.



Which arrow shows the direction of friction force?

- A. M
- B. Z
- C. L
- D. K

37. The following animals have same way of movement **except**

- A. flea
- B. ladybird
- C. wasp
- D. butterfly

38. In which of the following processes is energy **correctly** classified under renewable and non-renewable?

Renewable	Non-renewable
A. Wind	Charcoal
B. Coal	Petrol
C. Natural gas	Firewood
D. Biogas	Diesel

39. Which of the following is **not** a symptom of food poisoning?

- A. Fever

40. Which one of the following is **not** an effect of livestock diseases?

- A. Low yields.
- B. Reduced quality of products.
- C. Stunted growth.
- D. Transmission diseases to human beings.

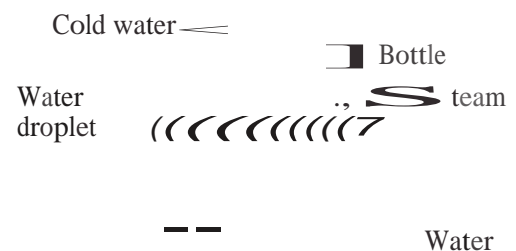
41. Which one of the following is **not** an air pollutant?

- A. Burning tyres.
- B. Sewage effluents.
- C. Vehicle exhaust fumes.
- D. Industrial gases.

42. During breathing out

- A. diaphragm flattens.
- B. lungs expand.
- C. ribs move upwards and outwards.
- D. diaphragm becomes dome shaped.

43. The diagram below shows a set up made by std. 5 pupils.

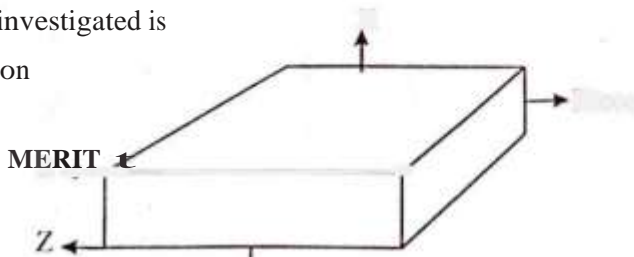


- B. Pain in joints
- C. Diarrhoea
- D. Vomiting

55. A class 7 girl tried to push a box towards the direction shown by flow.

1 ■ Heat

The process investigated is
 1. evaporation



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Which arrow shows the direction of friction flow?

- A. X
- B. Y
- C. Z
- D. W

56. The following animals have some type of movement except

- A. In
- B. Inghit
- C. way
- D. Invely

58. In which of the following processes is the correctly classified water renewable and non-renewable

Renewable	Non-renewable
A. Wind	Mineral
B. Coal	Forest
C. Natural gas	Flaxwood
D. Naps	Wood

59. Which of the following is not a symptom of RSI (Repetitive Strain Injury)?

- A. Pain
- B. Pain in joints
- C. Swelling
- D. Numbness

60. Which one of the following is not an effect of

- B. condensation
- C. convection
- D. freezing

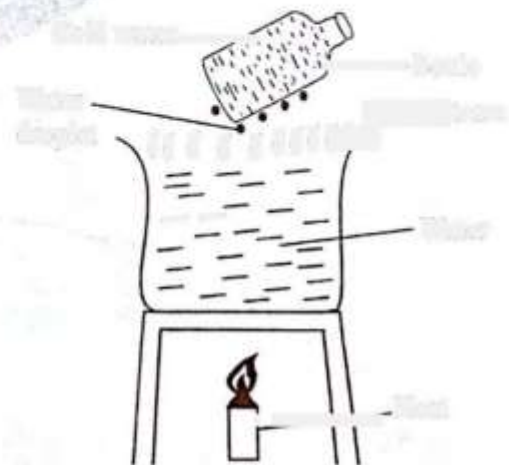
61. Which one of the following is not an air pollutant?

- A. Burning gas
- B. Sulfur dioxide
- C. Nitric oxide
- D. Hydrogen gas

62. Which one of the following is not a symptom of RSI (Repetitive Strain Injury)?

- A. Pain
- B. Pain in joints
- C. Swelling
- D. Numbness

63. The diagram below shows a set up made by



The process investigated is

- A. evaporation
- B. condensation
- C. convection
- D. boiling

44. Which pair of activities below requires streamlining of the body to reduce friction?
- A. Swimming and flying.
 - B. Reproduction and flying.
 - C. Feeding and swimming.
 - D. Reproduction and feeding.

45. The implantation of the fetus takes place in

45. The implantation of the fetus takes place in the uterus.
- A. fallopian tube.
 - B. uterus.
 - C. vagina.
 - D. oviduct.

46. The two gases that dissolve in water to make

46. The two gases that dissolve in water to make acid rain are: sulphur dioxide and carbon dioxide.
- A. Sulphur dioxide and carbon dioxide.
 - B. Carbon monoxide and nitrogen.
 - C. Sulphur dioxide and nitrogen.
 - D. Oxygen and carbon dioxide.

47. To get extra iron, an expectant mother should

47. To get extra iron, an expectant mother should feed on spinach.
- A. ugali
 - B. spinach
 - C. potatoes
 - D. bananas

48. The two liquids that can be used as lubricants

48. The two liquids that can be used as lubricants are engine oil and grease.
- A. engine oil and grease.
 - B. diesel and grease.
 - C. petrol and diesel.
 - D. engine oil and petrol.

49. When an arrow of a wind vane points to the

49. When an arrow of a wind vane points to the East, the wind must be blowing from West.
- A. East
 - B. West
 - C. North
 - D. South

50. Which of the following animals is a herbivore?

50. Which of the following animals is a herbivore? Zebra
- A. Chimpanzee
 - B. Zebra
 - C. Pig
 - D. Tiger

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