

**THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL
PRIMARY SCHOOL LEAVING EXAMINATION**

05E

SCIENCE

Time: 1:30 Hours

Monday, 6th September 2010 a.m.

Instructions

1. This paper consists of **50** questions in sections A and B.
2. Answer **all** questions.
3. All answers must be written in the answer sheet provided.
4. Cellular phones are **not** allowed in the examination room.
5. Write your **Examination Number** on your answer sheet.

maktaba.tetea.org



SECTION A

Choose the correct answer and write its letter beside the question number in the answer sheet provided.

- Which among the following is not an advantage of sports and games for our health?
A Helps to build muscles.
B Prevents the body from being attacked by diseases regularly.
C Causes high blood pressure.
D Entertains the body.
E Maintains body health.
- Water mixed with sugar and salt is the first aid given to a patient suffering from
A malaria and headache
B diarrhoea and vomiting
C meningitis and typhoid
D tuberculosis and flue
E broken leg or hand.
- One of the following diseases is not sexually transmitted:
A AIDS
B Trichonoma
C Syphilis
D Clamedia
E Trichoma.
- Which of the following vitamins is made in the body in the presence of sunlight?
A Vitamin A.
B Vitamin B.
C Vitamin C.
D Vitamin D.
E Vitamin E.
- What is the importance of vaccination to human beings?
A Reduces pain.
B Cures illness.
C Prevents diseases.
D Replaces vitamins and minerals in the body
E Replaces worn out cells in the body.
- What type of bacteria causes tuberculosis?
A All of those present in air.
B Basilli.
C Plasmodium.
D Fungus.
E Amoeba.
- Factories are not supposed to be built near human settlements because
A their construction occupies big area
B large part of factory effluents contain poisonous chemicals
C factory machines make loud noise which can affect ear drums
D factories make people to shift from their settlement
E factory owners do not keep their environment clean.
- The following activities destroy water sources except
A cutting of trees
B burning of forests
C overgrazing along water sources
D throwing chemical rubbish into water sources
E fetching cooking water from water sources.

9. A large percentage of the earth's surface is covered by water. Most of this water is found in the
 A ocean B rivers C lakes
 D dams E ponds
10. The highland area is the best place for pit latrine construction because
 A it is easy for wall construction
 B the bad smell will be far away from surface level
 C it is not easily damaged
 D water will be far away from they latrine itself
 E the latrine will not overflow in a short time.
11. An outflow of ground water is known as
 A Sea B Lake C Spring
 D Dam E River.
12. The necessary requirements for seed germination are
 A soil, sunlight and water
 B soil, air and water
 C optimum temperature, water and oxygen
 D optimum temperature, soil and sunlight
 E water, soil and carbon dioxide
13. A group of living things that live in both water and land is known as
 A Amphibian B Arthropoda C Fish
 D Birds E Mammals.
14. Which among the following organisms is not a mammal?
 A Bat. B Whale. C Lion.
 D Rabbit. E Crocodile.
15. Carefully study Figure 1 then answer the question that follows



Figure 1

- The organism which is shown in Figure 1 feeds on
 A honey B flesh C grains
 D aquatic food E decayed matter.

16. What kind of habitat suits a plant with characteristic features of the plant drawn in Figure 2?



Figure 2

- A Heavy forest. B In water. C Grasslands.
D Desert. E Mountains.
17. Why do some plants not shed their leaves during rain seasons?
A To conserve water B To allow transpiration
C To conserve food D To conserve soil
E To make the soil fertile.
18. The diagram in Figure 3 shows a picture of a flower.

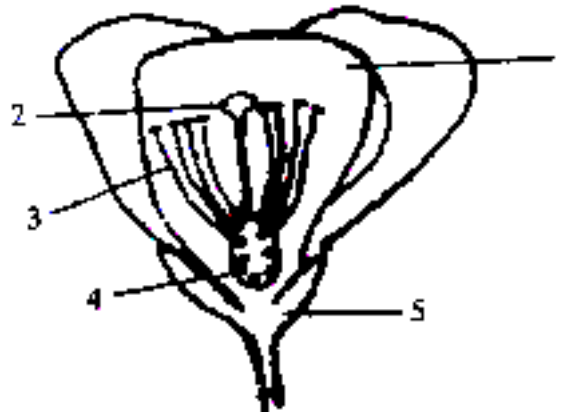


Figure 3

- Which part attracts insects for pollination?
- A 1. B 2. C 3. D 4. E 5.
19. Electricity produced by a dry cell originates from which type of energy?
A Solar. B Mechanical. C Sound.
D Magnetic. E Chemical.
20. Kibata used 50 newtons to push a wall from morning to evening unsuccessfully. Which of the following is correct with regards to the action?
A He was dodging the work. B He used a lot of force.
C He didn't do any work. D He did a good work.
E He used little force.

21. If the angle of incident ray on the plane mirror is 60° , what is the value of the angle of reflection?
A 90° B 40° C 30°
D 60° E 45°
22. Observe Figure 4 then answer the question that follows.

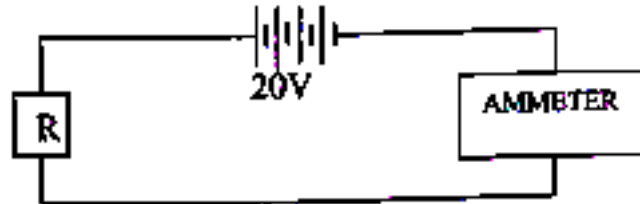


Figure 4

- If electric current passing through the circuit is 5 amperes, the resistance of the wire in the circuit is _____ ohm.
A 100 B 50 C 10 D 4 E 0.4.
23. Mzee Juakali hang a bar magnet in the air. Which direction will the north pole of the magnet point to?
A South. B North. C East. D West. E North - East.
24. Musa spent 10 newtons to push a wheelbarrow a distance of 5 metres. The work done by Musa was equivalent to how many Joules?
A 15. B 50. C 3. D 0.5. E 5.
25. In a scientific investigation, what makes a person foresee the results?
A Realising a problem. B Long investigation.
C Seeing by naked eyes. D Doing experiment.
E Touching something.
26. The experiment on seed germination was conducted as in Figure 5.

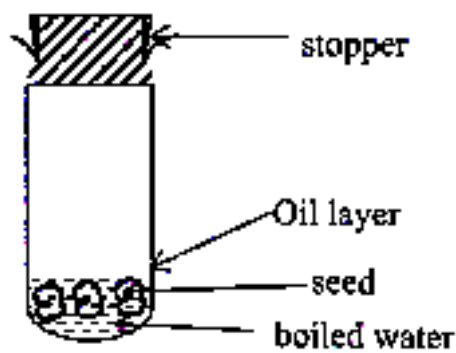


Figure 5

- What is the important thing missing for seed germination?
A Water. B Air. C Soil.
D Fertilizer. E Wind.

27. In scientific experiments, sense organs used to identify things are
 A nose, eyes, skin, tongue and ears
 B nose, ears, skin, legs and tongue
 C ears, skin, nose, legs and arms
 D ears, nose, skin, eyes and arms
 E eyes, legs, tongue, ears and nose.
28. The following data were obtained after measuring the heights of five plants in cm: 10, 12, 15, 28 and 40. The average height of the plants in cm is
 A 22 B 50 C 27 D 38 E 21.
29. What is the major purpose of producing different types of hybrid seeds?
 A To reduce the height of plants. B To increase plants products.
 C To fasten plants growth. D To obtain plants which tolerate draught.
 E To increase the height of plants.
30. Which one of the following instruments is used to measure length?
 A Kilogram. B Centimetre. C Ruler.
 D Volt. E Ampere.
31. The ozone layer is important in
 A increasing heat on the earth surface
 B decreasing sun rays reaching the earth
 C reducing the amount of carbon dioxide in the sky
 D increasing the amount of rainfall on the earth
 E decreasing coldness.
32. The most shining planet is
 A Mercury B Earth C Jupiter
 D Pluto E Venus.
33. How many days does the earth take to make one revolution around the sun?
 A $365\frac{1}{4}$. B 28. C 24. D 12. E 7.
34. The blood circulatory system is composed of the following:
 A Heart, white blood cells and blood
 B White blood cells, red blood cells and blood vessels
 C Heart, lungs and blood
 D Blood cells, water and heart
 E Heart, blood vessels and blood.
35. Waste products filtered by the kidney are carried to the gall bladder through a tube called
 A bronchiole B urethra C esophagus
 D ureter E fallopian.

36. Study Figure 6 of the tooth then answer the question that follows:

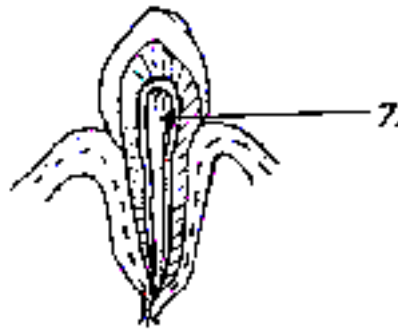


Figure 6

Letter Z in the figure represents _____.

- A enamel B crown C dentine
D blood vessels E gum.
37. Which part of the heart pumps blood to various parts of the body?
A Left auricle. B Left ventricle. C Right auricle.
D Vena cava. E Right ventricle.
38. Study Figure 7 and then answer the question that follows:

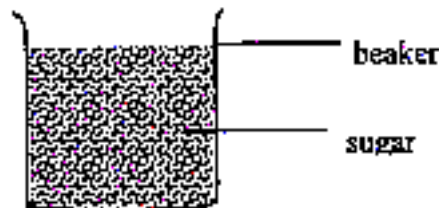


Figure 7

In which state of matter is the sugar inside the beaker?

- A Liquid. B Gas. C Solid.
D Element. E Compound.
39. Rusting of iron is an example of which change of state?
A Chemical. B Physical. C Colour.
D Liquid. E Mass.
40. Which among the following groups of food represents food rich in vitamin A?
A Orange, lime and lemon. B Carrot, milk and liver.
C Orange, yeast, beans. D Lime, orange, liver.
E Fish, milk, lime.

41. Which measure should be taken to prevent malnutrition?
 A Eating a lot of food.
 B Educating parents about quality food.
 C Keeping our environment clean.
 D Keeping our bodies clean and neat.
 E Eating fried food with a good smell.
42. If there is no change in the weight of matter, what name is given to such a change?
 A Chemical. B Hardness. C Physical.
 D Length. E Width.
43. Marasmus is a type of malnutrition caused by
 A deficiency in calcium and phosphorus B overfeeding
 C deficiency in iodine D deficiency in protein
 E inadequate food which provides energy and heat to the body.
44. What type of nutrients are found in body building foods?
 A Protein. B Carbohydrate. C Vitamins.
 D Minerals. E Fat.
45. Study the following food chain and then answer the following question.

PLANT → BUFFALO → CHEETAH.

In this food chain, what will happen if cheetah will migrate from the environment?

- A Plants will dry out. B The number of buffalos will decrease.
 C Plants will increase. D Plants will decrease.
 E Buffalo will migrate away too.

SECTION B

Answer questions 46 - 50 by writing a single word in the answer sheet provided.

46. Sound that has been reflected and heard again is called _____.
47. A person who fishes by using fishing hook is an example of _____ order lever.
48. In female reproduction the hormone responsible for increasing the thickness of the uterus after implantation is called _____.
49. A combination of hydrogen and oxygen gas yield a compound known as _____.
50. _____ is a gas which occupies the largest part of air.