
STANDARD EIGHT MID-TERM 3 EXAMS

2016 SCIENCE PAPER

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NATIONAL SERIES 2016 SCIENCE

TIME: 1Hour 40Mins

READ THESE INSTRUCTIONS CAREFULLY

1. You have been given this question booklet and a separate answer sheet. The question booklet contains 90 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 paper.

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 (i.e.) School Code Number and the three - figure Candidates 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- 90 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:

33. Which one of these crop pests is **NOT** a field pest?

- A. Weaver bird
- B. Aphid
- C. Cutworm
- D. Weevil

The correct answer is D.

On the Answer Sheet:

30. [A] [B] [C] [D] 31. [A] [B] [C] [D] 32. [A] [B] [C] [D] 33. [A] [B] [C] [D]

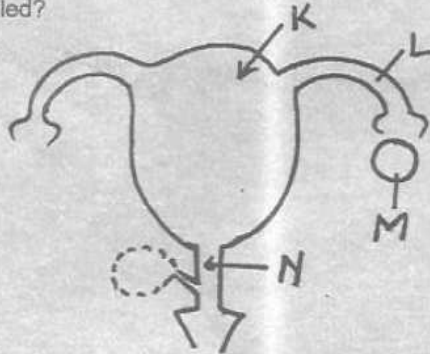
In the set of boxes number 38, the box with letter B printed in it is marked.

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.

Candidates should check the question paper to ensure that all the pages are printed

TURN OVER

- Sweat glands in the skin of a human body are located in the
 - epidermis
 - dermis
 - pores
 - oil glands
- Which one of the following is advisable when spraying with chemicals?
 - Spraying when the temperatures are high
 - Wearing a gas mask when spraying
 - Spraying against the direction of wind
 - Washing hands before spraying
- The following are health effects of a certain drug
 - causes memory loss
 - leads to breathing problem
 - may lead to permanent depression
 Which of the following drugs has the effects described above?
 - Cocaine
 - Mandrax
 - Bhang
 - Heroin
- When making compost manure, it is advisable to add a layer of ash. This is because ash
 - introduces bacteria
 - it provides nutrients to the bacteria
 - it increases to speed of decomposition
 - it adds valuable minerals salts
- Which of the following organs is not involved in breathing?
 - Diaphragm
 - Bronchioles
 - Aesophagus
 - Windpipe
- The diagram below represents the reproductive system in the female human body. Fertilization takes place in the part labelled?



- K
 - T
 - M
 - N
- The following are some of the physical changes that takes places during adolescence
 - Hips broaden
 - Chest and shoulders become broader
 - Pimples may appear on the face
 - Voice breaks
 - Pubic hair grows
 Which of the changes take place in a girl?
 - i, ii, iv
 - i, iii, iv
 - ii, iv, v
 - i, iii, v
 - Which of the following groups consists only of field pests?
 - Weavils, aphids and weaver birds
 - Aphid, weaver birds and white ants
 - Weavils, white ants and stalkborer
 - Aphids, weaver birds and stalk borer
 - Which one of the following animals is not correctly matched with its method of movements?
 - Snake - slithering
 - Shark - hoping
 - Rabbit - leaping
 - Snail - sliding
 - The easiest way of making hard water soft is by
 - adding salt
 - adding chemicals
 - boiling
 - filtering
 - Standard five pupils recorded weather changes for five days as shown in the chart

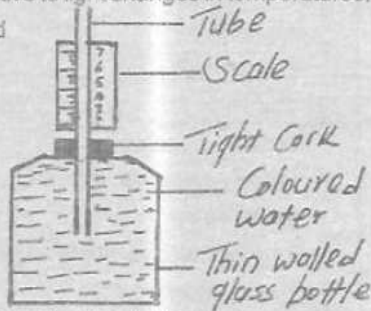
Day	Morning	Afternoon
Mon		
Tue		
Wed		
Thur		
Fri		

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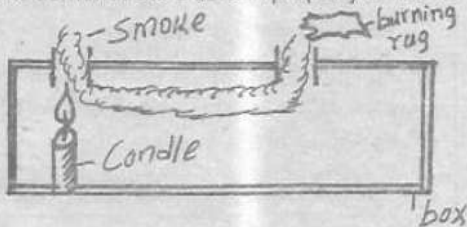
Which one of the following statements about the weather of that week is correct?

- A. Most of the days were sunny
- B. All the days were windy
- C. Most windy days were sunny and cloudy
- D. All afternoons were sunny

12. The following diagram shows an improvised water thermometer. To make the instrument more sensitive to light changes in temperatures, one should



- A. label the scale downwards
 - B. loosen the tight cork
 - C. use a thick - walled glass bottle
 - D. use a very narrow tube or straw
13. Standard five pupils used the following set-up to demonstrate a certain property of matter



The set up was used to demonstrate _____

- A. convection in gases
 - B. convection in liquids
 - C. expansion of solids
 - D. effects of smoking
14. Which one of the following is least likely to pollute water?
- A. Dumping sewage in water bodies
 - B. Using fertilizers excessively
 - C. Smoking cigarettes
 - D. Dumping industrial waste in water bodies
15. The component of air that is used in bulbs is represented by
- A. 21%
 - B. 0.97 %

- C. 78%
- D. 0.03%

16. Which one of the following statement **bes** describes hard water?

- A. It has little dissolve chemicals
- B. It lathers easily with soap
- C. It is the best water for drinking
- D. It does not form scale with soap

17. Which one of the following statements is incorrect?

- A. Legumes are source of proteins
- B. Carbohydrates are energy - giving foods
- C. Babies can easily digest cow's milk
- D. Breast milk is a balance diet

18. For proper growth of teeth and bones in the foetus, an expectant mother should eat foods rich in

- A. calcium and vitamin D
- B. calcium and iron
- C. carbohydrates and iron
- D. proteins and vitamins

19. An expectant mother who craves for soil should be given

- A. enough proteins
- B. plenty of carbohydrates
- C. sufficient mineral nutrients
- D. foods rich in fibre

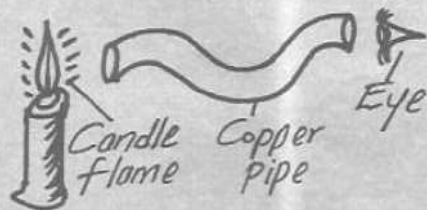
20. The foods which should **not** be preserved by freezing because they will change their flavour and colour are

- A. chicken and fish
- B. bananas and ovacadoes
- C. meat and chicken
- D. cabbages and lamb



Which part are represented by X, Y and Z?

- | X | Y | Z |
|-----------|----------|-------|
| A. Anther | style | sepal |
| B. Stigma | filament | petal |
| C. Anther | filament | sepal |
| D. Stigma | style | petal |
22. During a demonstration to investigate a certain property of matter, soil was put in a small container and then dipped in water in a basin. This was to show the presence of
- A. air in water
B. water in soil
C. minerals in soil
D. air in soil
23. One of the following is **not** a storage pest control method. Which one is it?
- A. Drying seeds before storing
B. Spraying grains with pesticides
C. Treating farms with pesticides
D. Making granaries that are rodent proof
24. Extremely long roots in xerophytes assist the plant to
- A. transpire less
B. store water in the fleshy tissues
C. dig deep into the underground water
D. be less exposed to sun and wind
25. The following are functions of roots
- i) **holding plants firmly in the soil**
ii) **storage of foods**
iii) **absorption of water and mineral salts**
iv) **breathing**
- Which of the functions are performed by ALL roots?
- A. i, iii
B. ii, iv
C. i, ii
D. iii, iv
26. The diagram below represents a set up that is used to investigate a certain aspect of light



- The aspect investigate is
- A. light travels in a straight light
B. refraction
C. reflection
D. passage of light through materials
27. Which one of the following is **not** an example of rotational grazing?
- A. Strip
B. Paddocking
C. Tethering
D. Herding
28. The following are some characteristics of a certain animals
- i) **body covered with scales**
ii) **lay eggs**
iii) **body temperature varies with the surroundings**
iv) **breath through lungs**
- Which one of the following pairs of animals has all the characteristics listed?
- A. Turtle and shark
B. Lizard and tortoise
C. Tilapia and frog
D. Crocodile and platy- pus
29. A certain machine, when in use, can work with load, effort and fulcrum at different positions as shown in the diagram i and ii
-
- The machine is a
- A. wheelbarrow
B. crowbar
C. spade
D. clawhammer
30. Which one of the following animals feeds provide a diet of proteins and carbohydrates?
- A. Clover and lucerne
B. Sunflower seeds and barley grains
C. Sunflower seeds and maize grains
D. Lucerne and maize grains

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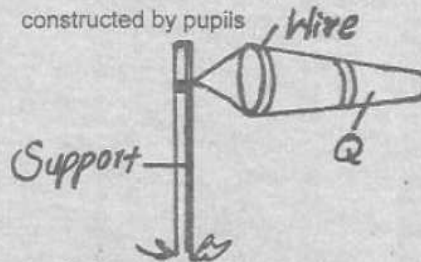
31. The following are methods of separating mixtures:
- picking*
 - filtering*
 - decanting*
 - sieving*

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

- i and iii
 - i and iv
 - ii and iii
 - ii and iv
32. Which one of the following is the **best** method of managing plastic waste?
- Burning
 - Burying
 - Recycling
 - Rensing
33. Which one of the following practices is an advantage to the soil?
- Ploughing across the contour
 - Disposal of vegetable refuse
 - Burning of crop remains
 - Use of herbicides
34. In which of the following is work made easier by changing the direction of the force applied?
- Ladder
 - Flag post
 - Staircase
 - A road winding up a hill
35. Which one of the following activities can be used to demonstrate rill erosion? Pouring water
- at different position of a slanting soil surface
 - in channels of soil on a slanting surface
 - on a flat surface of soil
 - on a flat surface using a tin with many holes
36. The **main** reason why a baby needs to be breast-fed by the mother is that the milk produced
- helps to build the baby's immunity
 - helps the baby to grow fast
 - helps the baby's bones to be strong
 - is easily digested

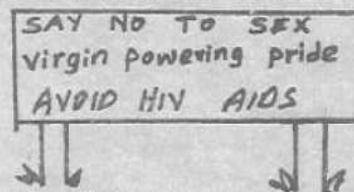
37. Corrugated iron sheets can be damaged when they come into contact with
- oil spill
 - herbicides
 - industrial gases
 - dust

38. The diagram below represents a windsock constructed by pupils



A suitable material that can be used to make the part labelled Q is

- sheet of metal
 - manila paper
 - polythene sheet
 - piece of mosquito net
39. As Kibet was walking along the road one day, he saw a big poster as the one drawn below:



Kibet must have seen a

- billboard
 - newspaper
 - pamphlet
 - road sign
40. The purpose of charcoal in a charcoal cooler is to
- absorb heat
 - absorb water
 - absorb colour
 - protect the inner parts from the wind
41. The extent of loudness or softness of sound is called
- pitch
 - echo
 - volume
 - vibration

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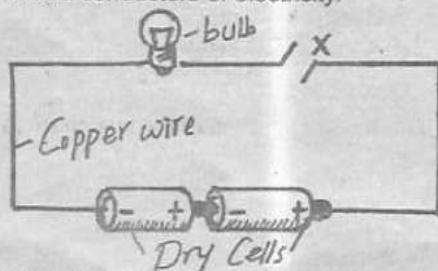
42. The following can cause electrical shock. Which one cannot?
- A. Inserting nails on electric sockets
 - B. Running electric cables under a carpet in the house
 - C. Not overloading sockets by plugging in many electrical appliances in one socket
 - D. Repairing electrical appliances when still attached to the socket

43. Which one of the following is the correct transformation of energy that take place when a radio that uses batteries is switched on
- A. electrical → chemical → heat → light
 - B. Chemical → electrical → heat → sound
 - C. Chemical → electrical → sound → heat
 - D. Electrical → heat → chemical → sound

44. Which one of the following is a magnetic material?
- A. Zinc
 - B. Aluminium
 - C. Iron
 - D. Copper

45. Which one of the following uses chemical energy to produced electricity?
- A. Hydroelectric generates
 - B. Car batteries
 - C. Wind driven generators
 - D. Dynamo

46. The diagram below is used to investigate good and bad conductors of electricity.



Which of the following can be put at x to make the bulb light?

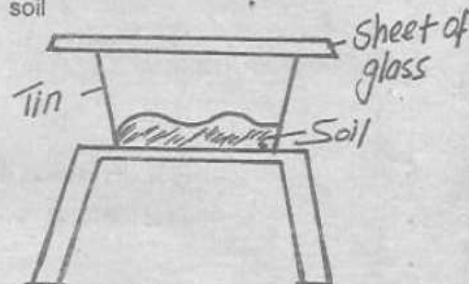
- A. Plastic
- B. Graphite
- C. Thread
- D. Piece of glass

47. Standard eight pupils observed a bird which had a foot like the one shown below



The bird was most likely to have

- A. a sharp flat beak
 - B. a swaim bladder
 - C. a serrated beak
 - D. thick sharp talons
48. Which one of the following excretory organs cannot remove waste?
- A. Rectum
 - B. Lungs
 - C. Kidney
 - D. Skin
49. The diagram below represents set up that can be used to investigate a certain component of soil



The component being investigated is

- A. humus
 - B. air
 - C. water
 - D. small animals
50. Below are description of certain type of cloud
- i) bring light rain
 - ii) have flat base
 - iii) show fine weather
 - iv) mountainous in shape

Which of the descriptions fits cumulus clouds?

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