

SCIENCE PAPER

CLASS SEVEN

2015

AVAILABLE ONLINE AT:

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SCIENCE

Time: 1hr 40min

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

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 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 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:

- 15.** Which one of the following methods of preserving food is both modern and traditional?

- A. Salting
- B. Using honey
- C. Drying
- D. Smoking

The correct answer is C. (Drying)

In the answer sheet:

15 A B C D 16 A B C D 25 A B C D 35 A B C D 45 A B C D

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

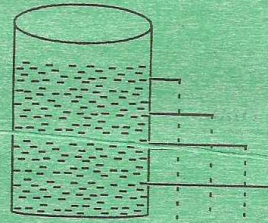
11. Your dark line **MUST** be within the box.
12. For each question **ONLY ONE** box is to be marked in each set of four boxes.

This question paper consists of 8 printed pages.

1. Cross pollination is the transfer of pollen grains from
 - A. the anthers to the stigma in the same flower.
 - B. the anthers to the stigmas of another flower in the same plant.
 - C. the anthers to the stigma of another flower on a different plant of the same type.
 - D. the anthers to the stigma of another flower on a different plant of a different kind.
2. One of the following methods of grazing can be practised by using permanent fences. Which one?
 - A. Paddock grazing
 - B. Tethering
 - C. Strip grazing
 - D. Stall feeding
3. Which one of the following is the **LEAST** factor to consider when obtaining medicine from a pharmacy?
 - A. The date of expiry
 - B. The date of manufacture
 - C. The dosage
 - D. Conditions for storage
4. The list below shows physical and emotional changes experienced by adolescents today.
 - (i) *Feeling shy.*
 - (ii) *Appearance of pimples on the face.*
 - (iii) *Hips broaden*
 - (iv) *Experiencing wet dreams*
 Which one among these changes is a physical change experienced by boys and girls?

A. (I)	B. (II)
C. (III)	D. (IV)

5. Study the illustration below.



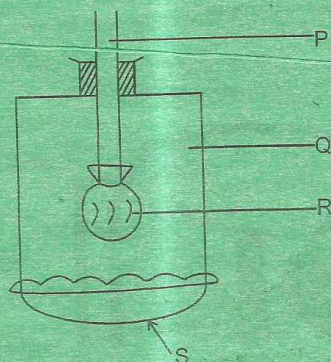
This illustration can be used to explain to a standard four child that;

- A. Liquids take the shape of the container
 - B. Liquids exert pressure to all directions.
 - C. Pressure in liquids is equal at the same level
 - D. Pressure in liquids increases with increasing depth.
6. Insect pollinated flowers are less **LIKELY** to be
 - A. Scented
 - B. Winged
 - C. Brightly coloured
 - D. Large in size
 7. Which one of the following is the 7th planet in the solar system?
 - A. Uranus
 - B. Jupitar
 - C. Neptune
 - D. Saturn
 8. The following are functions of oxygen gas **EXCEPT** one. Which one?
 - A. Burning
 - B. Respiration
 - C. Photosynthesis
 - D. Germination of seeds

9. Which one of the following parts of a bean seed is **NOT** correctly matched with its function?

A.	Cotyledon	Stores food
B.	Hilum	Attaches the seed to the mother pod
C.	Micropyle	Allows for the passage of water and air
D.	Radicle	Develops into shoot

10. The diagram below shows a model of a breathing system



Which one of the above labelled parts PQR and S represents the diaphragm?

- A. P
B. Q
C. R
D. S
11. Which one of the following shows the correct channel of blood flow in the human heart?
- A. Pulmonary artery → Pulmonary vein → Aorta → Venacava.
B. Venacava → Pulmonary artery → Pulmonary vein → Aorta
C. Aorta → Pulmonary vein → Venacava → Pulmonary artery.
D. Pulmonary vein → Pulmonary artery → Aorta → Venacava

12. Which one of the following immunisable diseases is administered by giving an oral drop?

- A. Polio
B. Measles
C. Tetanus
D. Whooping cough

13. Persistent cough, sweating at night, fever and loss of weight are signs and symptoms of one of the following diseases. Which one?

- A. Malaria
B. Cholera
C. Typhoid
D. Tuberculosis

14. Which one of the following shows a pair of storage pests only?

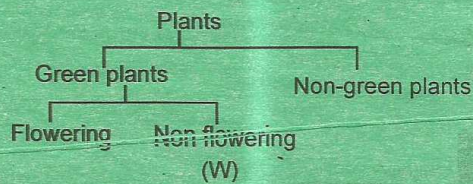
- A. Rats and aphids
B. Cutworms and stalk borers
C. White ants and weevils
D. Moles and weaver birds

15. Which one of the following methods of food preservation preserves food by removing water?

- A. Drying
B. Smoking
C. Using low temperature
D. Freezing

16. The main function of red blood cells in the human body is to
- fight germs
 - clot blood
 - transport oxygen
 - carry food

17. The illustration below shows a classification table on plants

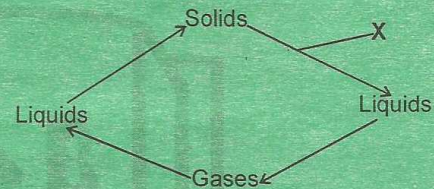


Which one of the following plants will belong to the group of plants shown by letter (W) above?

- Maize
 - Acacia
 - Sisal
 - Fern
18. Which one of the following is NOT a characteristic of all mammals?
- Are warm blooded.
 - Body covered by hair or fur.
 - Give birth to a live young one.
 - Feed young one on milk

19. A group of girls in standard four took fresh garden soil and put it in a glass containing clear water to carry out an experiment. If they were investigating the presence of air in the soil, what mistake did they make?
- Using soil from the garden.
 - Using fresh soil.
 - Putting water first in the glass instead of soil first.
 - Using a glass instead of using a tin

20. The illustration below shows how matter can change from one state to another.



What process takes place at the point labelled X?

- Condensation
 - Melting
 - Freezing
 - Evaporation
21. Which one of the following substances have definite mass?
- Solids only
 - Liquids only
 - Gases only
 - Solids, liquids and gases
22. Radiation is a method of heat transfer in
- solids only.
 - liquids only.
 - gases only.
 - gases and liquids

23. The following are characteristics of soils

- (i) *Sticks when wet*
- (ii) *Large air spaces*
- (iii) *Good for modelling*
- (iv) *Good for farming*

Which of the above characteristics best describe the soil that can be obtained from a river bed?

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

24. Which one of the following is NOT an oil crop?

- A. Cotton seeds
- B. Cocoa
- C. Coconut
- D. Cashewnuts

25. Which one of the following is NOT a recreational use of water?

- A. Surfing
- B. Swimming
- C. Fishing
- D. Ferrying

26. Which farm produce do farmers get from cattle and goats?

- A. Dairy milk
- B. Mutton
- C. Beef
- D. Mohair

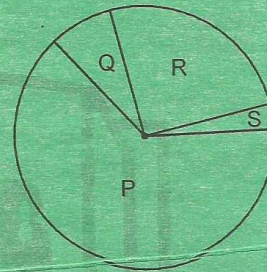
27. A child suffering from kwashiorkor should be fed on foods rich in

- A. vitamins
- B. proteins
- C. carbohydrates
- D. balanced diet

28. Which one of the following shows the correct order of HIV and AIDS stages on an individual?

- A. Asymptomatic → window → full blown → symptomatic.
- B. Full blown → asymptomatic → window → symptomatic
- C. Window → asymptomatic → symptomatic → full blown
- D. Window → symptomatic → asymptomatic → full blown

29. Use the chart below to answer question 29.



Which one among the labelled parts PQR and S represents part of the air used by seeds during germination?

- A. P
- B. Q
- C. R
- D. S

30. Which one of the following types of erosion is a form of a landslide?

- A. Sheet
- B. Rill
- C. Splash
- D. Gulley

31. Clothes on a clothes line will take the shortest time to dry when the weather is

- A. Calm and cold
- B. Windy and hot
- C. Cold and windy
- D. Calm and hot

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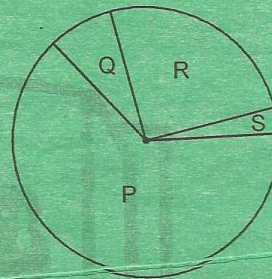
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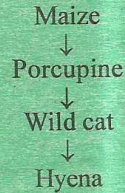
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- C. Cold and windy
- D. Calm and hot

32. Study the feeding relationship below
NOTE: The arrow points to the eater.



From the list of feeders shown above, which animal can be classified as a secondary consumer?

- A. Porcupine
- B. Wild cat
- C. Hyena
- D. None

33. Four groups in a standard six class were set out an experiment on bending of light. Each group then carried a different experiment as explained below;

Rhino group: Immersed a ruler in a glass of clear water in a slanting position.

Simba group: Put water in a basin next to the window, put a mirror in the water to reflect light onto the wall.

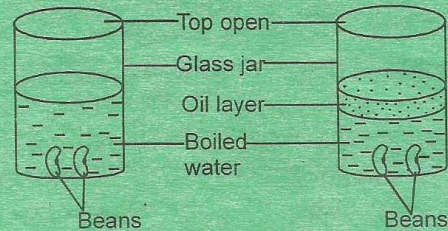
Jumbo group: Put a small cup in a basin of water.

Tiger group: Put water in a tin and allowed it to come out in jets.

Which group did NOT carry out an investigation on refraction of light?

- A. Rhino group
- B. Simba group
- C. Jumbo group
- D. Tiger group

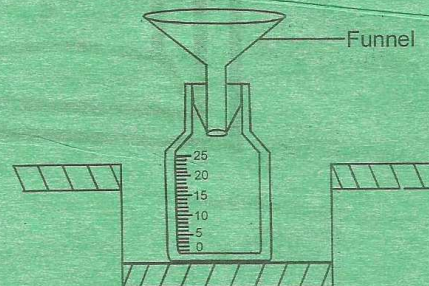
34. Below is an experiment set up by standard six pupils to investigate the conditions necessary for seed germination.



Which condition was being investigated in the experiment?

- A. Air
- B. Water
- C. Soil
- D. Oil

35. The diagram below shows a raingauge ready for use.



The MAIN reason as to why the instrument is dug into the ground is to

- A. avoid evaporation
- B. make it firm
- C. prevent soil from splashing into the contents.
- D. withstand harsh outdoor weather conditions

36. Which one of the following parts of a bean seed allows water and air to enter the seed during germination?

- A. Plumule
- B. Hilum
- C. Micropyle
- D. Testa

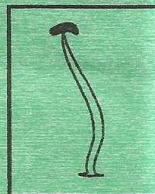
37. The following are factors that affect sinking and floating of a material **EXCEPT ONE**. Which one?

- A. Material
- B. Weight
- C. Shape
- D. Size

38. In which part of the digestive system does the digestion of starch take place?

- A. Stomach
- B. Mouth
- C. Small intestines
- D. Large intestines

39. Which one of the following is the **BEST** name given to the part of the flower shown below?

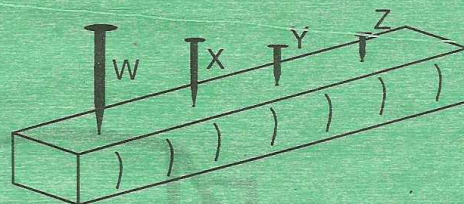


- A. Pistil
- B. Stamen
- C. Calyx
- D. Anther

40. Three of the following immunisable diseases can be controlled by administering a DPT vaccine. Which one **CANNOT**?

- A. Diphtheria
- B. Whooping cough
- C. Tetanus
- D. Polio

41. Which one of the following nails will produce the highest sound when struck with a metal rod?



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

42. Which one of the following types of teeth is **INCORRECTLY** matched with its function?

Cutting and biting	Crushing and grinding
A.	B.
Holding and biting	Chewing and grinding
C.	D.

43. Materials which **CANNOT** allow light to pass through them and one cannot see through them are said to be
- A. Opaque
 - B. Transparent
 - C. Insulators
 - D. Translucent
44. When investigating capillarity in soils, one should **NOT** have
- A. same amount of soils.
 - B. same type of soils.
 - C. same amount of cotton wool.
 - D. same size of test tubes.
45. The degree of hotness or coldness of a given area is its
- A. Altitude
 - B. Weather
 - C. Climate
 - D. Temperature
46. One of the following is a social effect of drug abuse. Which one?
- A. Poor judgement
 - B. Slurred speech
 - C. Truancy
 - D. Mental instability
47. Which one of the following show a list of major components of the environment only?
- A. Air, water, light and soil.
 - B. Sound, light, heat and food.
 - C. Air, soil, water and plants.
 - D. Plants, animals, air and buildings.
48. Which one of the following is a storage pest?
- A. Aphid
 - B. Weevils
 - C. Cutworm
 - D. Weaver bird
49. Which one of the following practices can be carried on the farm to control both internal and external parasites on livestock?
- A. Deworming
 - B. Rotational grazing
 - C. Spraying
 - D. Dipping
50. The unit measure for force is
- A. grams
 - B. newtons
 - C. joules
 - D. kilograms