



SCHOLASTIC COUNCIL FOR ACADEMIC EXCELLENCE

The All India Scholastic Quest Olympiads

Time: 45 minutes

Scholastic Science Olympiad – Class 5

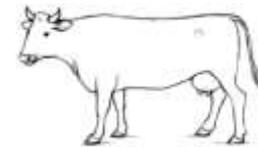
Total Marks: 40

Paper code: S-5401/17

(Total 4 pages)

- Which of the following is a high fat food item?**
a) Butter b) Fruits c) Wheat bread d) Fish
- Balanced diet is _____**
a) a diet in which we take more carbohydrates since they give us energy.
b) a diet in which all nutrients are present in adequate proportions is called a balanced diet.
c) a diet in which all nutrients like carbohydrates, proteins, fats, roughage are present in equal amounts.
d) none of these
- Potato : carbohydrates :: _____ : proteins**
a) sugar b) cheese c) fish d) vegetables
- Cooked food is kept in the refrigerator because _____**
a) Food lasts longer in the refrigerator
b) Cold food tastes better
c) In the refrigerator the nutrients in food increase
d) keeping food in a refrigerator reduces fats in the food
- Which of the following is NOT a part of the human digestive system?**
a) liver b) trachea c) large intestine d) stomach
- The digestive juice called 'saliva' mixes with the food in the _____**
a) mouth b) stomach c) small intestine d) large intestine
- Which of the following joints is an example of a hinge joint?**
a) the elbow b) the shoulder c) the wrist d) the neck
- The juice secreted by the liver is called _____**
a) bile b) ptyalin c) saliva d) amylase
- Which minerals are necessary for strong bones?**
a) calcium b) phosphorus c) iron d) Both a) and b)
- Ravi had a fall while playing in the garden. The doctor suspects that he might have a fractured arm. How will the doctor confirm whether there is a fractured bone in his arm?**
a) by looking at the shape of his arm, the doctor can estimate whether he has a fracture
b) in case of a fracture the hand will lose all sensation
c) an x-ray report will have to be obtained which will show the fracture
d) by measuring Ravi's temperature using a thermometer

11. A junction where two bones meet is called a _____
 a) ligament b) cartilage c) joint d) connection
12. Which of the following diseases may be caused due to eating stale or unhygienic food?
 a) diarrhoea b) malaria c) rickets d) tuberculosis
13. Sagarika was sick and was advised rest. The doctor told her not to attend school for a few days as the disease may spread to other children. From the options given below guess the disease that Sagarika had.
 a) Polio b) Common cold c) Asthma d) diabetes
14. Which nutrient do we get when we expose our skin to sunlight?
 a) vitamin A b) amino acids c) vitamin D d) vitamin B
15. Which useful products are given by the animal shown in the figure?
 a) milk, leather, wool b) leather, dung, fur
 c) milk, leather, dung d) milk, dung, ivory



16. The instrument shown in the figure on the right is _____
 a) a thermometer used to measure body temperature
 b) a barometer used to pressure blood pressure
 c) a thermometer used to measure rate of heart beats
 d) a stethoscope used to study breathing of the patient



17. Identify the animal from the options below which lives near wetlands, rivers, lakes, ponds and swampy areas.
 a) buffalo b) rhinoceros c) tiger d) crocodile
18. Which of the following statement is false?
 a) birds do not have teeth b) birds can walk on two feet
 c) all birds can fly with their wings d) none of these
19. _____ may be applied to minor burns and cuts to prevent further infection.
 a) Antiseptic cream b) Pesticides c) Disinfectant d) Ice
20. In summer potted plants have to be watered more frequently. This is because _____
 a) in summer plants lose a lot of water by transpiration
 b) water cools the soil and the roots maintain a good anchorage in the soil
 c) in summer if lot of water is given to the plants they yield lot of fruits
 d) none of these
21. An elderly man is walking on the road in the afternoon carrying a heavy bag. It is summer and the temperature is around 40°C. The man is sweating profusely and seems to be in discomfort. The man suddenly collapses on the ground. What could be the cause of his sudden collapse?
 a) snake bite b) heart attack c) sunstroke d) either b) or c)
22. Which of the following plants has a very long and sturdy stem?
 a) pumpkin b) coconut c) rose d) potato

23. **Mangroves are _____**
 a) shrubs or small trees that grow in coastal regions and in salt water
 b) flowering plants which grow in mountainous regions and bloom in summer
 c) plants which provide us with food grains
 d) decorative plants that people grow in pots and keep in their living rooms
24. **Which one of these is a natural change?**
 a) burning of paper b) rusting of iron c) boiling of water d) spilling tea on your clothes
25. **Which of the following is an example of a reversible change?**
 a) water freezes to ice b) cutting down of trees c) ripening of mango d) an air balloon bursts
26. **Which of these is a physical change?**
 a) tearing a paper into small pieces b) a cut apple after some time turns brown
 c) milk turns into curds d) baking a cake
27. **Which one of the following is a fast change?**
 a) Rusting of iron b) Rotting of food c) Catching a disease d) bursting of crackers
28. **What is done with the old newspapers that we sell to the old scrap merchant (raddiwala)?**
 a) they are burnt as fuel b) the old paper is recycled to make new paper
 c) old paper is used to make fancy articles d) used for making biogas
29. **What happens to the water vapour that evaporates from seas, lakes and rivers?**
 a) the water vapour that evaporates immediately falls down in the form of rain
 b) the water vapour that evaporates rises in the air and forms clouds at some height above the ground
 c) all the evaporating water vapour condenses on leaves of plants in the form of dew
 d) the evaporating water vapour turns into snow which then accumulates on mountain tops
30. **Air pollution affects the functioning of the _____**
 a) digestive system b) respiratory system c) excretory system d) circulatory system
31. **The air quality in villages is much better than that in cities. Factors responsible for this are:**
 A) there are a lot of trees in villages B) there is more rainfall in villages
 C) there are almost no factories in villages D) there are fewer automobiles in villages
 E) cities have lot of tall buildings F) presence of tar roads in cities
- a) A, C, D b) A, B, C, D c) C, D, F d) A, B, E, F
32. **Identify the plant shown in the photograph alongside:**
- a) rose b) jasmine
 c) fern d) lotus
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33. **A volcano which had erupted thousands of years ago but will never erupt again is called a _____**
 a) dormant volcano b) extinct volcano c) sleeping volcano d) silent volcano
34. **The epicentre of an earthquake is _____**
 a) a point on the surface of the earth b) a point in the interior of the earth
 c) a point above the focus of the earthquake d) Both a) and c)

35. **When an earthquake happens you are safe if:**
a) you are with your parents at home
b) you are in school attending class
c) you are in a large open playground
d) you are on the beach
36. **What is ground water?**
a) water in lakes, ponds and rivers
b) water which flows on the ground and is finally drained into the sea
c) rain water which collects under the ground in layers of rock
d) water which is impure due to the dissolved soil
37. **An insectivorous plant is one which traps insects and used them as food. Which of these is an insectivorous plant?**
a) Venus flytrap b) chrysanthemum c) giant ant-eater d) mimosa
38. **How does the grasshopper manage to save itself from birds and other predators?**
a) it can run very fast and can save itself from any danger
b) its colour and shape is such that it is difficult to spot a grasshopper in grass or on green leaves
c) it has a very poisonous sting which it uses to save itself from bigger animals
d) it makes small holes in the ground and saves itself by entering the hole
39. **Reptiles are animals which crawl on their bellies and have skins covered by hard, dry scales. Which of the following is not a reptile?**
a) rhinoceros b) crocodile c) tortoise d) lizard
40. **Which of the following is an aquatic (living in water) animal?**
a) tiger b) pig c) bears d) dolphin

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