

P7 SCIENCE REVISION QUESTIONS..

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For Marking guides.

1. Why is it dangerous to touch electrical appliances with wet hands?
2. How does the human heart work as a double pump?
3. Why is a balance diet more useful to a pregnant mother than a normal person?
4. Why is it difficult to hear sound in space?
5. How do plants without flowers reproduce?
6. Why do clothes dry faster on a windy day than on a calm day?
7. Why do blood vessels widen when a person is running?
8. Why is urine considered an excretory product but faeces is not?
9. How is a candle able to produce both light and heat energy at the same time?
10. How does friction affect movement on a muddy road?
11. What would happen if the small intestine was shorter than the large intestine?
12. Why is the lower part of a wind sock wider than the top?

13. Explain why metal spoons feel colder than wooden spoons in cold weather.
14. How do compound eyes help insects to escape danger?
15. How do changes in temperature affect plant growth?
16. Why do some diseases not spread from one person to another?
17. Why is a car battery not used to cook food yet it produces energy?
18. What would happen if all decomposers were removed from the environment?
19. Why is a plant with tap root system better at surviving dry seasons than one with fibrous roots?
20. How does the structure of a fish make it suitable for living in water?
21. Why is blood from the lungs richer in oxygen than blood from the brain?
22. What makes the nose an important part of the breathing system?
23. Why is it advisable to reduce salt intake in the diet?
24. Why are boiled eggs safer to eat than raw ones?
25. How does blood maintain body temperature?
26. Why is a child born with temporary immunity?
27. Why does the colour of leaves change when boiled in alcohol?
28. Why is heat energy not easily transferred through air by conduction?

29. Why does a balloon filled with warm air rise?
30. How do animals in deserts adapt to conserve water?
31. Why is carbon dioxide used in fire extinguishers?
32. What would happen if the diaphragm stopped working?
33. Why is water called a universal solvent?
34. Why do we feel thirsty after eating salty food?
35. How does body size affect the amount of energy needed?
36. Why do mirrors reflect light while wood does not?
37. What makes the left side of the heart thicker than the right?
38. Why should metals not be disposed in pit latrines?
39. How does the shape of bird wings help in flying?
40. Why is it not advisable to burn plastics?
41. Why is vaccination done in the upper arm and not the leg?
42. How does mucus in the nose protect the body?
43. Why do we add chlorine to drinking water?
44. Why does warm air rise while cold air sinks?
45. How does HIV affect the immune system?
46. Why do batteries stop working after long use?
47. Why do we sweat when temperatures are high?
48. Why is a wedge classified as a simple machine?

49. Why does soil from wetlands smell bad when dry?
50. Why do some animals hibernate in cold seasons?
51. How does the structure of a root hair cell suit its function?
52. Why does hot water cool faster in a metal cup than in a plastic one?
53. Why does an eclipse of the moon not happen every full moon?
54. Why is lightning more common during rainy seasons?
55. Why is milk stored in fridges during hot days?
56. How can two similar-sized stones fall at the same time, yet one is heavier?
57. Why are leaves broad and flat?
58. Why is saliva important in the digestion of food?
59. How does alcohol affect body coordination?
60. Why do seeds not germinate in dry soil?
61. Why should expired drugs not be consumed?
62. How does rust form on metals?
63. Why are cockroaches more active at night?
64. Why does fertilization not always lead to pregnancy?
65. How does a syringe act as a simple machine?
66. Why is it dangerous to dispose medical waste in open places?
67. Why are solar panels placed on rooftops?
68. Why is a fuse important in electrical circuits?
69. Why is it not safe to use polythene bags for food storage?

70. How can the sun be both a source of energy and a hazard

71.

- a) State three problems that can arise from poor waste disposal.
- b) How can these problems affect people living near dumping areas?
- c) Suggest two proper ways of managing waste in your school.

72.

- a) What is reproduction?
- b) Describe the process of fertilization in flowering plants.
- c) How does pollination differ from fertilization?

73.

- a) What is a machine?
- b) Give examples of three simple machines and how they are used.
- c) How can we calculate the mechanical advantage of a machine?

74.

- a) Name any three forms of energy.
- b) Describe how energy is transformed in a kerosene lamp.

c) Why should we avoid using non-renewable sources of energy?

75.

a) Define the term *soil erosion*.

b) Describe three types of soil erosion.

c) Suggest three methods of controlling soil erosion in your community.

76.

a) Explain the process of photosynthesis.

b) Give three conditions needed for photosynthesis.

c) How is the process of photosynthesis useful to both plants and animals?

77.

a) What is digestion?

b) Explain the difference between mechanical and chemical digestion.

c) Describe what happens to food in the stomach.

78.

a) What is a disease?

b) Describe three ways of controlling communicable diseases.

c) Why is personal hygiene important in disease prevention?

79.

- a) Define a balanced diet.
- b) List three classes of food nutrients and their functions.
- c) What health problems can arise from poor feeding?

80.

- a) Define sound and how it travels.
- b) Describe the structure of the human ear and its parts.
- c) What dangers can arise from listening to loud music?

81.

- a) What are the three states of matter?
- b) Explain how heat changes the state of matter using water as an example.
- c) Why does ice float on water?

82.

- a) Explain the importance of the kidney in the excretion process.
- b) Describe how the kidney filters blood.
- c) What may happen when kidneys stop working?

83.

- a) What is immunity?
- b) Explain the difference between natural and acquired immunity.

c) Why are babies vaccinated several times after birth?

84.

a) Describe how friction occurs.

b) Give two advantages and two disadvantages of friction.

c) Suggest two ways to reduce friction in machines.

85.

a) Describe the structure of a flowering plant.

b) Explain how each part contributes to reproduction.

c) Why are petals important in flowers?

86.

a) Define weather and climate.

b) List three weather instruments and their uses.

c) How does weather affect farming?

87.

a) What is respiration?

b) Describe the difference between aerobic and anaerobic respiration.

c) State the importance of respiration in animals.

88.

- a) Define pollution.
- b) Name and explain three types of pollution.
- c) Suggest ways of reducing pollution in urban areas.

89.

- a) Explain how HIV is spread.
- b) Give three methods of preventing its spread.
- c) How can stigma affect people living with HIV?

90.

- a) Define energy transformation.
- b) Describe how energy is transformed in a windmill.
- c) Why is it important to use clean sources of energy?

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P1-P7.

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