

BUDHA DAL PUBLIC SCHOOL PATIALA
First Term Examination (16 September 2024)
CLASS - VII
PAPER- SCIENCE (SET-A)

Time: 3 hr.

M.M. 80

General Instructions:

1. All questions are compulsory.
2. Attempt all questions section wise in the serial order neatly and leave one line after every answer.
3. Draw neat and labelled diagrams wherever required.

Section - A

Answer in one word or one sentence :

1 × 10 = 10

- Q1. Name the structure that carries water and minerals from the roots to the leaves of a plant.
- Q2. Name the process in which small pieces of food get mixed with saliva during chewing.
- Q3. Name the device used to measure temperature.
- Q4. Give one example of physical change.
- Q5. Write the formula for calculating speed.
- Q6. What is sewage?
- Q7. Define food chain.
- Q8. Name the cell organelle which contains chlorophyll.
- Q9. Name the organ that secretes bile juice.
- Q10. The microorganisms that convert dead plants and animals into humus are known as _____.

Section - B

Give short answers :

2 × 10 = 20

- Q11. What is the autotrophic mode of nutrition?
- Q12. Which part of alimentary canal is involved in
a) absorption of food b) killing of bacteria
- Q13. Why cooking utensils are made of metals?
- Q14. Why is explosion of crackers considered as a chemical change?
- Q15. Define amplitude of the pendulum.
- Q16. Name two inorganic impurities and two microbes present in sewage.
- Q17. How does forests maintain balance of gases in the atmosphere?
a) Which type of graph is obtained when you plot a distance-time graph 1+1
of a uniform motion?
- Q18. b) What is a reversible change?

A-1

1+1

Q19. a) Write any one function of tongue.

1+1

Q20. b) Name the enzyme that breaks down proteins in the stomach.
a) Name one common chemical used for disinfecting water?
b) Name any two infectious diseases caused by stagnant sewage.

3×10=30

(1+2)

($\frac{1}{2} \times 6 = 3$)

Section - C

Answer the following:

Q21. a) Give one example of total parasite plant.
b) Why are animals not able to make food like plants do?

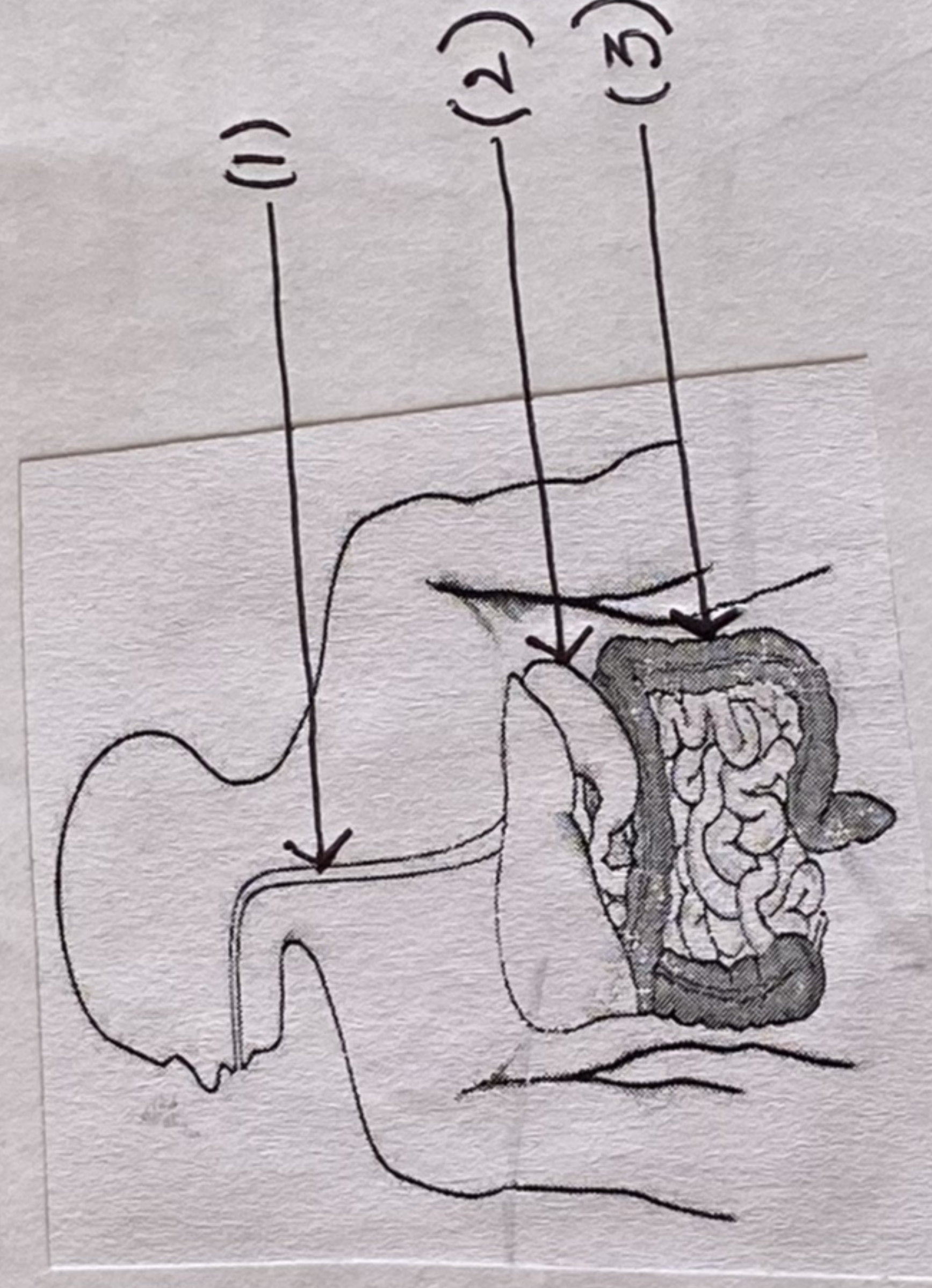
Q22. Classify the following into physical and chemical change :

- Burning of kerosene oil
- Melting of wax
- Rusting of iron
- Digestion of food
- Tearing of paper
- Germination of seed

Q23. The speed of a moving car is 72km/h. Calculate its speed in m/s.

(1+1+1)

Q24. Label the parts (1), (2) and (3)



Q25. a) Why is mercury used in thermometers? (2+1)

b) Which is the fastest mode of heat transfer; conduction, convection or radiation?

(1+2)

Q26. a) What is Eutrophication?

b) Why cooking oils and fats should not be thrown down the drain?

(3)

Q27. Write any three causes of deforestation.

Q28. Write any three differences between physical and chemical changes.

(3)

Q29. Explain how plants are dependent on animals? (give any 3 points)

(3)

Q30. a) Explain why one end of steel bridges is made to rest on rollers?

(2+1)

b) Give any two examples of insulators.

20

Section - D

Q31. 1. Which one of the following are cleansing agents of the environment? (1×5)

a) herbivores b) carnivores c) top carnivores d) scavengers

2. Which of these diseases is not caused by improper disposal of sewage

a) Cholera b) heart attack c) jaundice d) typhoid

A-2

3. In the following questions, two statements are given - one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to this question from the codes (a), (b), (c) and (d) as given below
- Assertion (A) :** The laboratory thermometer is used to measure the temperature of a human body.

Reason (R) : Temperature can be measured in $^{\circ}\text{C}$ or $^{\circ}\text{F}$

- Both A and R are true and R is the correct explanation of the assertion.
- Both A and B are true but R is not the correct explanation of assertion.
- A is true and R is false
- A is false but R is true

4. Write any one application of convection current.

5. Organisms A and B are good friends and live together. Organism A provides shelter, water and nutrients while organism B prepares and provides food. This association of organism is termed as

- saprophytes
- parasite
- autotrophs
- symbiosis

- Q32.** 1. Write any two differences between milk teeth and permanent teeth. (2+1+2)

2. Write any two effects of tooth decay.

3. Write two conditions necessary for rusting of iron.

- Q33.** 1. Differentiate between odometer and speedometer. (2+1+1)

2. In the following question, two statements are given - one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to this question from the codes (a), (b), (c) and (d) as given below

Assertion (A) : The motion of car with constant speed along a straight line is considered a non-uniform motion.

Reason (R) : An object moving along a straight line with constant speed is said to have a uniform motion.

- Both A and R are true and R is the correct explanation of the assertion.
- Both A and B are true but R is not the correct explanation of assertion.
- A is true and R is false
- A is false but R is true

3. What is land breeze?

(1×6)

Q34. Match the following:

1) stagnant sewage	a) leguminous plants
2) oil	b) jaundice
3) deforestation	c) saprotroph
4) rhizobium bacteria	d) organic waste
5) drosera	e) soil erosion
6) indian pipe	f) insectivorous plant