

DELHI PUBLIC SCHOOL, JAMMU
REVISION SHEET FOR FINAL EXAM
(Session 2019-20)

Class : VII

Subject : Science

General instructions:

1. The question paper consists of three sections A, B and C. The sections are to be attempted separately. All questions are compulsory.
2. All questions in Section A are one mark question comprising VSA type, paragraph based questions, assertion-reason type questions and MCQs.
3. All questions in section B are three marks, short answer type questions. These are to be answered in 50 – 60 words each
4. All questions in section C are five marks, long answer type questions. These are to be answered in 80 – 90 words each.

SECTION – A

Q1. Define the term vegetative propagation.

Q2. Define frequency of the pendulum.

Q3. Name two chemicals used to disinfect water.

Q4. Give the formula to calculate absorption percentage.

Q5. Write male and female reproductive part of flower.

Q6. List any two substances which pollute the soil.

Q7. Answer question number 7(a) to 7 (c) on the basis of your understanding of the following paragraph and the related studied concept:

It is not safe to taste every substance to find out if it is acidic or basic. There are some special substances that have different colours in acidic or basic medium. These substances are known as indicators. The indicators change their colour when added to solution containing an acidic or basic substance.

- a) What is an indicator?
- b) State types of indicator with example.
- c) A solution change the colour of turmeric indicator from yellow to red. The solution is
 - a) Basic
 - b) Acidic
 - c) Neutral
 - d) Either acidic or neutral

Q8. Answer question number 8(a) to 8(c) on the basis of your understanding of the following paragraph and the related studied concept:

It is an activity of planning, developing, distribution and managing the optimum use of water resources. Water supply pipes leaking and a lot of water gushing out of the pipes are the wastage of water. It is the responsibilities of the civic authorities to prevent such wastage of precious water. It can also be checked at individual level. All of us knowingly or unknowingly waste water; we should also take care of it.

- a) What is 'it' in the beginning of paragraph referring to?
- b) Write any two ways of proper management of water.
- c) _____ was a traditional way of collecting rain water.

Q9. **Assertion (A):** anaerobic Respiration produces lesser energy the aerobic respiration.

Reason (R): Muscle cells in humans produce lactic acid during strenuous exercise.

Q10. **Assertion (A):** Galileo Galilei observed that oscillation of chandelier slowed down but the time period remained the same.

Reason (R): A pendulum of a given length always takes the same time to complete one oscillation.

Q11. **Assertion (A):** Rapid rotation of Newton's colour disc tells us that mixing of seven colours of the spectrum can give us white light.

Reason (R): Disc painted with six colours of prism is called Newton's disc.

For question no. 9 to 11, there are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes provided below:

- a) Both A and R are true and R is correct explanation of the assertion.
- b) Both A and R are true but R is not the correct explanation of the assertion.
- c) A is true but R is false.
- d) A is false but R is true.

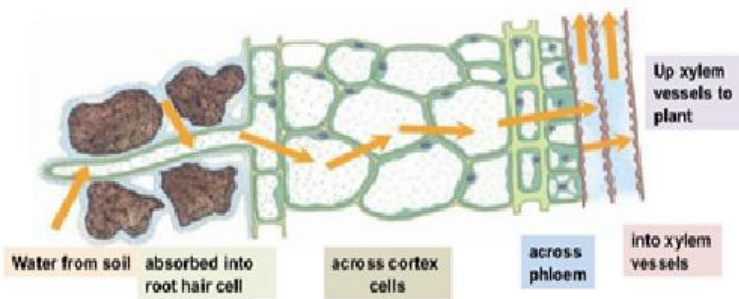
- Q12. How will you convert the speed given in km/h to m/s?
 a) By multiplying with 5/16 b) By multiplying with 6/5
 c) By multiplying with 18/5 d) By multiplying with 5/18
- Q13. Humus helps in making the soil
 a) thick b) hard
 c) porous d) dead
- Q14. The muscular tube through which stored urine is passed through the body is called
 a) kidney b) ureter
 c) urethra d) urinary bladder
- Q15. A spore producing plant is
 a) rose b) potato
 c) ginger d) bread mould
- Q16. The air that we breathe passes to the tiny sac called
 a) bronchi b) bronchioles
 c) alveoli d) pharynx

SECTION – B

- Q17. a) What is weathering?
 b) 100 ml of water was taken in a measuring cylinder and added to 50 gm of soil sample. The soil absorbed some water and 80 ml of water percolated through it in the measuring cylinder. Calculate the absorption rate of water by the soil.

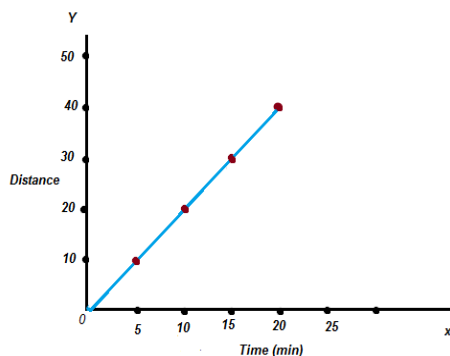
Or

- a) What is meant by soil profile?
 b) 80 ml of water was taken in a measuring cylinder and added to 40 gm soil sample. . The soil absorbed some water and 60 ml of water percolated through it in the measuring cylinder. Calculate the absorption rate of water by the soil.
- Q18. Observe the diagram carefully and answer the following questions:



- a) What is depicted in the diagram?
 b) How is transpiration and translocation different from each other?
 c) How does water and mineral move from cell to cell in the roots?

- Q19. Observe the diagram carefully and answer the following questions:



- a) What will be the distance travelled by the object in 20 seconds?
 b) What type of motion is described in the given figure?
 c) What is the average speed of the object?

- Q20. What is a neutralization reaction? Explain the same with an example.
- Q21. Explain any three reasons of lowering of water table in cities.
- Q22. Deforestation can be considered as reason for depletion of water table. Comment.
- Q23. a) State one measure to avoid overloading in an electric circuit.
b) Mention the name given to the situation in which the live wires come in contact accidentally.
c) Describe the role of a safety device in the above situation.
- Q24. A car moves at a speed of 60 km/h for 30 minutes and then at a speed of 80 km/h for the next 30 minutes. Calculate the total distance covered by the car.
- Q25. Write three differences between combustion and respiration.
- Q26. What is sludge? Explain how it is treated?

SECTION – C

- Q27. a) Draw a well labelled diagram of Human Respiratory system
b) Explain the mechanism of respiration in humans.
- or
- a) Draw a well labelled diagram of human heart?
b) Explain in detail the exchange gases at alveolus.
- Q28. Write in detail five uses of electromagnet.
- Q29. Describe the steps involved in getting clarified water from wastewater.
- Q30. Draw and explain the mechanism of blood circulation in human heart.
- Q31. a) What is meant by dispersal of seed?
b) Discuss briefly the features of fruits and seeds dispersed by wind and water
- Q32. a) Define the term focal length and Principal focus of spherical lenses.
b) Draw ray diagram of the following:
i. Object placed between C and F of concave Mirror.
ii. Object placed at 2F₁ of a convex lens.