



HANSRAJ PUBLIC SCHOOL
SECTOR-6, PANCHKULA
Class: IX Subject: SCIENCE
Periodic Assessment -III (2025-26)

Date: 29.11.2025

Duration: 1 hour 30 min.

Roll No: 15

Max Marks: 40

General Instructions:

- (i) This question paper consists of 20 questions in 3 sections. Section A is Biology (questions 1 to 8), Section B is Chemistry (questions 9 to 14) and Section C is Physics (questions 15 to 20).
- (ii) All questions are compulsory.

SECTION – A (BIOLOGY)

I. Multiple Choice Questions

1. Which of the following species of honeybee is an Italian species? (1)
A) *Apis dorsata* B) *Apis cerana* C) *Apis mellifera* D) *Apis florea*
2. Which of the following is not used in organic farming? (1)
A) Mixed cropping B) Bio fertiliser
C) Chemical pesticides D) Organic manure
3. Which of the following is not a marine fish? (1)
A) Sardine B) Tuna C) Mackerel D) Carp
4. Which of the following are Indian cattle? (1)
a. *Bos indicus* b. *Bos domestica*
c. *Bos bubalis* d. *Bos vulgaris*
A) a and c B) a and b C) b and c D) c and d
5. The following question consists of two statements – Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below: (1)
A) Both A and R are true, and R is the correct explanation of A.
B) Both A and R are true, and R is not the correct explanation of A.
C) A is true but R is false.
D) A is false but R is true.

Assertion (A): Bombay duck is a marine fish.

Reason (R): It is caught from sea using fishing nets from fishing boats.

6. Distinguish between fertilisers and manure. (2)
7. Compare mixed cropping with intercropping. Write one advantage of each of these techniques. (3)
8. a) How do you differentiate between capture fishing, mariculture and aquaculture. (3+2)
b) Write one advantage and one disadvantage of composite fish culture.

SECTION – B (CHEMISTRY)

9. Latin name for gold is (1)
A. aurum B. kalium C. natrium D. ferrum
10. Which of the following statements is not true about an atom. (1)
A. Atoms are not able to exist independently.
B. Atoms are the basic units from which molecules and ions are formed.
C. Atoms are always neutral in nature.
D. Atoms aggregate in large numbers to form the matter that we can see, feel or touch

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- B. Both Assertion and Reason are true, and R is not the correct explanation of A.
- C. Assertion is true but Reason is false.
- D. Assertion is false but Reason is true.

11. Assertion : Ions are always positively charged. (1)

Reason : Ions are formed by losing or gaining electrons.

12. Give the names of the elements present in the following compounds. (2)

Quick lime. and Baking powder.

13. Write down the formulae of Aluminium sulphate and Sodium sulphide. (2)

14. (a) When 3.0g of carbon is burnt in 8.00 g of oxygen, 11.00 g of carbon dioxide is produced. What mass of carbon dioxide will be formed when 3.00g of carbon is burnt in 50.00 g of oxygen? Justify your response .

(b) Define the law of chemical combination which will govern your answer?

(c) Define the atomic mass unit. (2+1.5+1.5)

SECTION – C (PHYSICS)

15. Which of the following is true of two objects of different masses falling freely near the surface of the moon? (1)

- A. They both have different accelerations.
- B. They have the same velocities at any instant
- C. They experience forces of the same magnitude
- D. They change their inertia

16. Which of the following statements is true of the value of acceleration due to gravity? (1)

- A. The value is the same on the equator and poles \times
- B. The value is least on poles
- C. The value is almost negligible on the equator \times
- D. The value increases from pole to equator \checkmark

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

17. Assertion (A): The acceleration due to gravity decreases with altitude.

Reason (R): The acceleration due to gravity is inversely proportional to the square of the distance from the center of the Earth. (1)

18. What is the importance of the universal law of gravitation?(four points) (2)

19. A stone is allowed to fall from the top of a tower 100 m high and at the same time another stone is projected vertically upwards from the ground with a velocity of 25 m/s. Calculate when and where the two stones will meet. (3)

20. A) State the universal law of gravitation. Write its expression.

B) The volume of a 500 g sealed packet is 350 cm^3 . Will the packet float or sink in water if the density of water is 1 g cm^{-3} ? What will be the mass of the water displaced by this packet? (3+2)