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FOR AP CLASS 10 PREPARATION

AP SSC Model Paper 2027 Physical Science - Model Paper 2 (English Medium)

EXAM	YEAR	TYPE	SUBJECT
AP Class 10	2027	Sample Paper	Physical Science

BLUE PRINT & MODEL PAPERS OF SSC PUBLIC EXAMINATIONS FOR THE ACADEMIC YEAR 2026-27
BY THE DIRECTOR OF GOVERNMENT EXAMINATIONS (SSC BOARD), A.P.

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SSC PUBLIC EXAMATINATIONS 2026 - 27

GENERAL SCIENCE - PAPER-I

PHYSICAL SCIENCE (MODEL PAPER - 2)

(ENGLISH VERSION)

Time : 2 Hours **Max. Marks : 50**

Instructions :

1. Question paper consists of 4 sections and 17 Questions.
2. Internal Choice is there only for Q.No. 12 in Section-III and for all the Questions in Section-IV.
3. In the duration of 2 hours, 15 minutes of time is allotted to read the Question paper.
4. All answers should be written in the answer booklet only.
5. Answer should be written neatly and legibly.

SECTION-I

Note : 1) Answer all the Questions.
2) Each question carries 1 mark. **(8 × 1 = 8 M)**

1. Ramu and Latha prepared papads together. Latha chose a normal container, while Ramu preferred an airtight container to store the papads. Keeping rancidity in mind, whose choice should they accept?
2. A student wants to test whether a given solution is acidic or not. Suggest one safe and simple test.
3. During a Swachh Seva Camp, a group of students is assigned the task of making the school drinking water safe. Which action best demonstrates sensitivity towards the health of others?
   A) Mixing bleaching powder to disinfect the drinking water.
   B) Adding washing soda to the drinking water.
   C) Storing bleaching powder packets near tank.
   D) Decorating the water tank with posters.
4. A student believes that all metal oxides are basic in nature. Upon observing that aluminium oxide reacts with both acids and bases. What conclusion must be drawn by him about the nature of metal oxides?
5. Ethane with the molecular formula C_2H_6 has — Covalent bonds
   A) 6 B) 7 C) 8 D) 9
6. Observe the following statements.
   Vani : Speed of light in Diamond is more than air
   Rani : Speed of light in Air is more than Diamond
   Whose statement is correct?

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7. Write the atmospheric phenomenon which explains advance sunrise and delayed sunset?
8. Why the electric bulbs are filled with nitrogen and argon gases?

SECTION-II

Note : 1) Answer all the Questions.
2) Each question carries 2 marks. **(3 × 2 = 6 M)**

9. Name any two allotropes of carbon ?
10. "Light travels with the same speed in any medium." Ramana made this statement during a discussion. Formulate two probing questions that would guide him to realize his misconception?
11. A student while performing an experiment needs to regulate the current in a circuit without changing the battery. suggest a suitable method to achieve this and justify your answer.

SECTION-III

Note : 1) Answer all the Questions.
2) Each question carries 4 marks. **(3 × 4 = 12 M)**

12. Draw any one of the following diagrams:

A) Draw a neat ray diagram for the formation of image when the object is kept in front of aconvex lens in the following positions:

i) At $2F_1$ ii) between F_1 and $2F_1$

(OR)

B) Draw a neat diagram to show the reaction of zinc granules with dilute sulphuric acid.

13. A) In a school laboratory ,'Group A' argues that adding water to acid to dilute concentrated acid, while another group 'Group B' argues that adding acid to water is correct method. Whose argument is correct? Why?

B) Arun said that hydrochloric acid turns the colour of the blue litmus. Is this statement Correct under all conditions? Justify your answer.

14. Vivek wants to create a virtual and erect image by using following lenses or mirrors.

Lens/Mirror	Object to be placed at
Concave mirror	
Convex mirror	
Concave lens	
Convex lens	

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SECTION-IV

Note : 1) Answer all the Questions.

2) Each question carries 8 marks.

3) Each question has an internal choice. **(3 × 8 = 24 M)**

15. A) Suma can see the distant objects clearly but cannot see the nearby objects distinctly. With which vision defect she is suffering from? How can rectify this defect? Explain with the help of suitable diagrams?

(or)

B) Derive the equation $R_s = R_1 + R_2 + R_3$

16. A) Explain four types of chemical reactions with an example each.

(OR)

B) Explain the mechanism of cleaning action of soap ?

17. A) Write an activity to show that a current carrying conductor experience a force when it is placed in magnetic field?

(or)

B) Write an activity to show that metals or good conductors of heat.