aglasem.com

FOR AP CLASS 10 PREPARATION

AP SSC Model Paper 2027 Physical Science - Model Paper 1 (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.

19E

GENERAL SCIENCE PAPER-I EXAMINATION BLUEPRINT

Question-wise Chapter Distribution (Questions 1 to 17)

Q.NO	Chapter/Topic	Ability
1	Chemical Reactions and equations	Sensitivity
2	Acids, Bases and Salts	Creativity
3	Acids, Bases and Salts	Sensitivity
4	Metals and non-metals	Sensitivity
5	Carbon and it's Compounds	Awareness
6	Light--Reflection and Refraction	Sensitivity
7	The Human Eye and the Colourful World	Awareness
8	Electricity	Creativity
9	Carbon and it's Compounds	Creativity
10	Light--Reflection and Refraction	Sensitivity
11	Electricity	Creativity
12 A	Light--Reflection and Refraction	Awareness
12 B	Acids, Bases and Salts	Awareness
13	Acids, Bases and Salts	Sensitivity
14	Light--Reflection and Refraction	Creativity
15 A	The Human Eye and the Colourful World	Awareness

19E

15 B	**Electricity**	**Awareness**
16 A	**Chemical Reactions and equations**	**Awareness**
16 B	**Carbon and it's Compounds**	**Awareness**
17 A	**Magnetic Effects of Electric Current**	**Awareness**
17 B	**Metals and non-metals**	**Awareness**

Note: This blue print is for this model paper only

Design (PHYSICAL SCIENCE)

Question Paper/Test
Subject: General science-1
Unit/Paper: 19T/E
Class: X
Time: 2 hrs
Marks: 50

Weightage to Objective

Objective	AWARENESS (60%)			SENSITIVITY (20%)			CREATIVITY (20%)				
	Knowledge	Understanding of Construct	Understanding of Process	Conflict Resolution	Open mindedness	Collaboration	Generate innovative ideas	Flexibility	Fluency	Exploration	Combing Ideas / Concepts
% of Marks	60%			20%			20%				
Marks	30			10			10				

Weightage to Form of Question

Forms of Questions	E/LA (8M)	SA (4M)	VSA (2M)	O (MCQ) - 1 Mark Qns	Total
No. of Questions	**3**	**3**	**3**	**8**	**17**
Marks Allotted	**24**	**12**	**6**	**8**	**50**
Estimated Time (min)	**60**	**30**	**15**	**15**	**120 (Including 15 min for Reading)**

Weightage to Chapter

S. No.	Unit/Sub-Units	BREAKUP OF MARKS	MARKS
1	Chemical Reactions and Equations	**8+1**	**9**
2	Acids Bases and Salts	**4+4+1+1**	**10**
3	Metals and non metals	**8+1**	**9**
4	Carbon and it's compounds	**8+2+1**	**11**
5	Light-Reflection and Refraction	**4+4+2+1**	**11**
6	The Human Eye and Colourful world	**8+1**	**9**
7	Electricity	**8+2+1**	**11**
8	Magnetic effects of electric current	**8**	**8**
Total		50M + 28M(CHOICE)	

Estimated Difficulty Level		
	Difficult	**15 % Marks**
	Average	**45 % Marks**
	Easy	**40 % Marks**

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

19E

SSC PUBLIC EXAMATINATIONS 2026 - 27

GENERAL SCIENCE - PAPER-I

PHYSICAL SCIENCE (MODEL PAPER - 1)

(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. A group of students is preparing fried snacks for distribution in a school exhibition. Different suggestions are given to prevent rancidity of fried snacks. Which suggestion should the group agree upon after discussion ?
   A) Keep the snacks under sunlight.
   B) Pack the snacks in airtight packets.
   C) Store the snacks in an open container.
   D) Sprinkle water on the snacks before packing.
2. A student finds that the pH of a solution is 3. Suggest one way to neutralize it.
3. While preparing a dilute sulphuric acid solution, a group of students decides to follow the correct laboratory procedure. Which action should they perform together ?
   A) Add water slowly to concentrated acid.
   B) Add concentrated acid slowly to water.
   C) Mix acid and water at the same time.
   D) Heat the acid before dilution.
4. Ramesh said that all metals are solids at room temperature. How would you gently guide him to reconsider his belief by asking a question ?
5. 5 - 8% solution of acetic acid is called _____.
6. Pavan: Concave mirror will be used as rearview mirror.
   Kiran: Convex mirror will be used as rearview mirror.
7. Which constituent colour of white light undergoes the maximum deviation when passing through glass prism ?

19E

A) Violet B) Red C) Green D) Yellow

8. Why alloys are commonly used in electrical heating devices ?

SECTION-II

Note : 1) Answer all the Questions.

2) Each question carries 2 marks. **(3 × 2 = 6 M)**

9. Name all possible structural isomers of C_4H_{10}.
10. Meenu stated that convex lens always forms real images, how would you guide her to correct misconception by asking two simple questions ?
11. Design a circuit consisting of a battery, two resistors, a plug key and an ammeter all are connected in series.

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 placed in front of a concave mirror in the following positions :

i) At C ii) between F and C

(OR)

B) Draw a neat diagram to show the chlor-alkali process.

13. Rohan said washing soda will be used to bake a cake and baking soda to soften hard tap water. His sister Sowmya disagrees with him.
    1. In this context, who is correct ?
    2. Write the formula of baking soda ?
    3. Write any two uses of substance that rohan chose to bake cake.
14. An object is placed beyond 2F of convex lens where object should be moved to get following images.

i) real and enlarged images ii) real and same size image

iii) virtual and enlarged image iv) Highly diminshed and point sized image.

19E

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) What is myopia ? How can you rectify it ? Explain it with suitable diagrams ?

(OR)

B) Define the following.

1) Electric current 2) Potential difference

3) Ohm's law 4) Electric power

16. A) Balance the following chemical equations.

1. $Mg + O_2 \rightarrow MgO$
2. $Fe + H_2O \rightarrow Fe_3O_4 + H_2$
3. $CH_4 + O_2 \rightarrow CO_2 + H_2O$
4. $NaOH + H_2SO_4 \rightarrow Na_2SO_4 + H_2O$

(OR)

B) Complete the following table.

No. of carbons in Hydro carbon	Alkane	Alkene	Alkyne
3	C_3H_8		
4		C_4H_8	
5			C_5H_8
6		C_6H_{12}	

17. A) Explain the procedure to show that compass needle is deflected on passing electric current through a metallic conductor. (Oersted's experiment)

(or)

B) Explain an activity to show that high reactive metals displaces low reactive metals from their compounds.