MODEL QUESTION PAPER

Physical Science

Part-A and B

Class: **X** Max.Marks:40 Time:1.35 hrs.

General Instructions:

- i. Read the question paper carefully and understand.
- ii. Answer the questions under Part-A in the answer sheet provided
- iii. Write the answer to the questions under Part-B in the space provided and attach it to the Part-A answer sheet.
- iv. Part-A contains 3sections
- v. Write the answers following the instructions given in the each section.

PART-A

Marks:30

Section – I

 $3 \times 2 = 6 \text{ Marks}$

Instructions:

- i. Answer any 3 of the following questions
- ii. Write the answers in 1-2 sentences.
- iii. Each question carries 2 marks
- 1. What happens if concave mirror is used as a rear view mirror?
- 2. In an experiment NaCl is reacts with H_2SO_4 and evolves HCl gas. What is the result when we test the evolved gas with wet litmus paper?
- 3. The electronic configuration of sodium is 1s²2s²2p⁶3s¹, and then writes the 4 quantum numbers of the first electron in K shell.
- 4. Mention the chemical equation of reaction between the Mg and O₂ and write its physical state of reactants and products.
- 5. A doctor suggested to use the +50 cm focal length lens to correct a person's eye defect, mention which type of defect he is suffering and mention type of lens doctor suggested.
- 6. Which material is used to make the filament of the bulb? Why?

Instructions:

- i. Answer any 2 of the following questions
- ii. Write the answers in 4-5 sentences.
- iii. Each question carries 4 marks
- Find the focus and position of the lens by drawing a ray diagram using the position of object A and the image A¹ in the given diagram.



- 8. What would happen if corrosion of metals is not prevented?
- 9. The elements belong to the modern periodic table the atomic numbers of the elements are 20, 26. Write the elements belong to which period and group.
- 10. Mention the day to day uses of the convex lenses.

Section – III

 $2 \times 8 = 16 \text{ Marks}$

Instructions:

- i. Answer any 2 of the following questions
- ii. Write the answers in 8 -12 sentences.
- iii. Each question carries 8 marks
- 11. Mention the precautions to be taken in the experiment to show that hydrogen gas is evolved when metals react with acids. Mention the experimental procedure.
- 12. In the following table nature of some solutions are given.

Model solution	NaOH	Saliva	Sea	HCl	NaCl	Pure water	Acitic acid	Blood
			water					
P ^H value	13	6	8	1	7	7	6	7.4

Answer the following questions.

- a) Write the acids and bases.
- b) In which of the above two material react to get neutralization reaction.
- c) Mention the strong acids and weak bases from the above table.
- d) Mention the nature of the product when NaOH reacts with acetic acid?
- 13. Mention the main features of the modern periodic table.
- 14. 10V battery is connected in a electric circuit. Between A and B points 20 Ω and 30 Ω resisters are connected to get least resistance in the circuit. Find the resultant resistance between A and B and find current in the circuit.

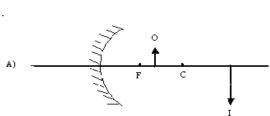
MODEL QUESTION PAPER

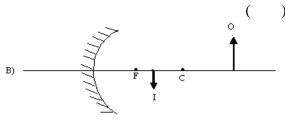
Physical Science

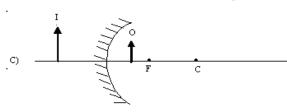
Part - B

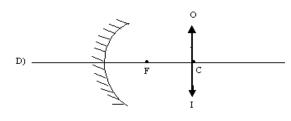
-	_lass: A 							Mari	KS:10			
Ins	structions:											
	i.	Answer all the questions										
	ii.	Choose the correct answer from the given options and write the corresponding letter (A/B/C/D) in the capital letters in the space provided										
	iii.	Each question carries 1 mark										
	iv.	Marks will not be given for over writing/ re-writing / erased answers.										
1.	The focal length of a symmetrical converging lens is equal to the radius of curvature.											
	Then the refr	active index	x is					()			
	A) 1		B) 1.5		C) 2		D) 3					
2.	After white washing of house, walls will appear to be brighter after 1 or 2 days. The white substance formed on the walls is											
						D) C	()				
	A) <i>Ca</i> (,	B) H_2C	,	C) ($Ca(OH)_2$	D) C	aCO ₃				
3.	When a honey bee stings and injected ethnoic acid, what is used to get relief											
								()			
	A) Calcium l	nydroxide	B) Lemo	on water	C) Co	ommon salt	D) So	da wate	er			
4.	If "-D" power lens is used for the correction of the eye defect, then the lens used is											
								()			
	A) Bi convex	k lens	I	B) Plano con	cave ler	ıs						
	C) Concave convex lens D) concave lens											
5.	3s, 3p, 4s, 3	3d of these,	more ener	rgy level orb	ital is			()			
	A) 3s	B) 4s		C) 3 <i>a</i>	l	D) 3 <i>p</i>						

6. An object is placed in front of the concave mirror then object distance, image distance and magnifications as per the sign conventions i.e. -u, +v, +m for the following one diagram is









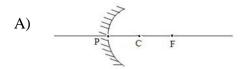
- 7. Number of orbitals present in the sub shell if n = 4

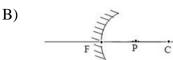
- A)16
- B) 9
- C) 4
- D) 10

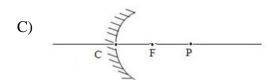
8. Correct ray diagram from the following is

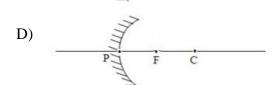
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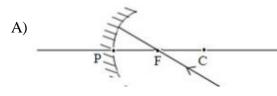


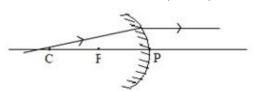


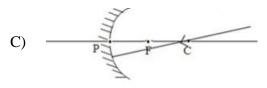


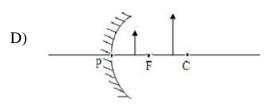
9. Correct ray diagram from the following is

()









- 10. Image formed when we read the paper by using magnifying glass is
- ()

A) Virtual image

B) real image

B)

- C) Image formed at infinity
- D) smaller than object.