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Subject : GENERAL SCIENCE (Paper - I) Time: 2 hrs.45min Max. Marks: 50

TABLE 1 WEIGHTAGE FOR ACADEMIC STANDARDS

SL.NO.	ACADEMIC STANDARD	WEIGHTAGE	MARKS
1	AS1	40%	20
2	AS2	10%	05
3	AS3	15%	7/8
4	AS4	15%	7/8
5	AS5	10%	05
6	AS6	10%	05
	(100%	50

TABLE 2 TYPE OF QUESTIONS

SL.NO.	TYPE OF QUESTION	MARKS	QUESTION NO.s	TOTAL MARKS
1	VERY VERY SHORT 1/2		1 - 12	06
2	VERY SHORT	1	13 - 20	8
3	SHORT	2	21 - 28	16
4	ESSAY	4	29 - 33	20
	TOTAL	33	50	

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GENERAL SCIENCE - PAPER - I (English Version)

Class: X Max.Marks: 50 Time: 2hrs.45min.

Instructions:

- 1. 15 minutes of time is allotted for reading the question paper in addition to 2.30 hours for writing the answers.
- 2. All the answers should be written in the separate answer booklet.
- 3. There are four sections in the question paper.
- 4. There is an internal choice in Section IV.
- 5. Write all the answers visibly & legibly

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 $12 \times \frac{1}{2} = 6 \text{ M}$

Note:

- 1. Answer all the questions.
- 2. Each question carries 1 mark
- 1. is defined as the degree of hotness or coldness.
- 2. Latent heat of vapourisation of water is

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- A) 500 cal/gm
- B) 540 cal/gm
- C) 80 K cal/gm
- D) 500 K cal/gm
- 3. Imagine and write which gas will be evolved generally when a metal reacts with an acid.
- 4. A: Aqueous sodium chloride is called brine solution

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B: Mg(OH), is alkali solution (Alkali)

K) Only A is true

L) Only B is true

M) Both A and B are true

- N) Both A and B false
- 5. Write any one use of a lens in our daily life?
- 6. Lens

Shape

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- 1. Biconvex lens
-) p)
- 2. Biconcave lens (





Match the above

- A) 1 p, 2 q
- B) 1 q, 2 p
- C) 1 q, 2 r
- D) 1 r, 2 p www.sakshieducation.com
- 7. Which is the coloured part that we see in our eye?

- 8. Which of the following is the Planck's constant.
 - A) $6.626 \times 10^{-34} JS$

B) $6.626 \times 10^{-34} \text{ J/S}$

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C) 6.626×10⁻²⁷ JS

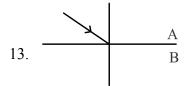
- D) 6.626×10⁻²⁷ J/S
- 9. When asked Swarup to give examples for Halogens, he stated as Flourine, Chlorine, Neon, Bromine. By observing the examples given by Swarup find and write which element is not a halogen among them.
- 10. According to octet rule 'Argon' demonstrates stability, assume and write how many electrons are there in it's outer most orbit.
- 11. What is the SI unit of "Potential difference".
- 12. Write name of any metal that is helpful in our daily life.

SECTION - II

 $8 \times 1 = 8 \text{ M}$

Note:

- 1. Answer all the questions.
- 2. Each question carries 1 mark.



A is less optically denser than B. Keeping in view of optical densities rewrite and complete the diagram in your answer sheet.

- 14. Write any two required materials to determine the focal length of a lens using UV method in laboratory?
- 15. What is least distance of distinct vision of a healthy human?
- 16. An electron in an atom has the following set of four quantum numbers.

n	l	\mathbf{m}_{l}	m _s
2	О	О	+1/2

On the basis of the above table.

Which orbital does the electron belong.

- 17. Give any one example for Dobereiner's Triads.
- 18. Write any other name of 'Ionic Bond'.
- 19. What do you call a character of Electric conductor that opposes the motion of electron.
- 20. Write any two highly reactive metals you know.

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Note:

- 1. Answer all the questions.
- 2. Each question carries 2 marks.
- 21. Assume and write why do we have sweat while doing work.
- 22. Let A, B, C materials have given red, yellow, red colours when react with methyl orange respectively.
 - 1) Among A, B, C which are acids, which are bases.
 - 2) What is the change in colour when phenolphthalein added to B.
- 23. Write any two required materials to do the activity to prove that 'the focal length of a lens depend on its surroundings and also write any one precaution to do this activity.
- 24. Doctor suggested to use 4D lens. What is the focal length of the lens?
- 25. Explain nl^x method briefly.
- 26. What is the bond angle of the following.
 - 1) Angle of HOH in water molecule
 - 2) Angle of HNH in Ammonia
- 27. Explain what happen to the value of resistance of a conductor if its cross sectional area is doubled and length is kept under constant.
- 28. Write any two questions to understand how the metals extracted from their ore?

SECTION - IV

 $5 \times 4 = 20 \text{ M}$

Note:

- 1. Write answer for all all the questions.
- 2. There is an internal choice for each question.
- 3. All questions carry equal marks.
- 4. Each question carries 4 marks.
- 29. Write the appropriate reasons for the following phenomenon.
 - a) Water melon brought out from a refrigerator retains its coolness for a longer time than other fruits.
 - b) Oceans behave like heat store houses for the earth.

(OR)

What is myopia? How can we rectify it?

30	Solution	A	В	С	D	Е	F	
	pH value	0	1	4	7	¹¹ wv	w.sakshie	ducation.com

By observing the above table answer the following in A, B, C, D, E, F solutions.

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- 1) Which is the strongest acid?
- 2) Which is the weak acid?
- 3) Which is the strongest base?
- 4) Which is neutral?

(OR)

Classify the following in to oxides, sulfides, sulfates separately.

Matter	Bauxite	Zinc Blend	Pyrolusite	Zincite	Heamatite	Cinnabar	Epsom salt	Galena
Formula	Al_2O_3 $2H_2O$	ZnS	MnO_2	ZnO	Fe ₂ O ₃	HgS	MgSO ₄ 7H ₂ O	PbS

31. Write the lab activity to obtain a relationship between angle of incidence and angle of refraction (Snell's law)

(OR)

Write the lab activity to show that the ratio V/I (Ohm's law) is a constant for a conductor.

- 32. How the following periodic properties of atom trend in groups and periods.
 - A) Ionisation Energy
 - B) Electronegativity
 - C) Atomic radius
 - D) Electron affinity

(OR)

- A, B and C are three elements with atomic numbers 6, 11 and 17 respectively then
- 1) Which of these can't form ionic bond? Why?
- 2) Which of these can't form covalent bond? Why?
- 33. An object is kept before a convex lens. Draw the ray diagrams to the following positions of object.
 - 1) At 2F₂
 - 2) Beyond 2F₂

(OR)

Draw a neat diagram of the filling order of atomic orbitals by electrons (Moeller's chart).

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