

BLUE PRINT FOR MODEL PAPER

Subject : GENERAL SCIENCE (Paper - I)

Max. Marks: 50

Time : 2 hrs.45min

TABLE 1

WEIGHTAGE FOR ACADEMIC STANDARDS

SL.NO.	ACADEMIC STANDARD	WEIGHTAGE	MARKS
1	AS1	40%	20
2	AS2	10%	05
3	AS3	15%	07
4	AS4	15%	08
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	08
3	SHORT	2	21 - 28	16
4	ESSAY	4	29 - 33	20
TOTAL			33	50

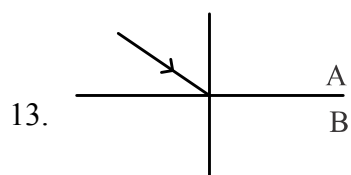
8. Which of the following is the Planck's constant.
- A) 6.626×10^{-34} JS
 B) 6.626×10^{-34} J/S
 C) 6.626×10^{-27} JS
 D) 6.626×10^{-27} J/S
9. When asked Swarup to give examples for Halogens, he stated as florin, chlorine, neon, bromine. By observing the examples given by Swarup find and write which element is not a halogen among them.
10. According octate rule 'Argan' 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 × 1 = 8 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 re write and complete the diagram in your answer sheet.

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

n	<i>l</i>	m_l	m_s
2	0	0	$+\frac{1}{2}$

On bases above table

To which orbital electron belongs.

17. Give any one example for dobereiner's Triods.
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.

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 material have given red, yellow, red colors 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 add to be.
23. Write any two required material to do the activity to say that ‘the focal length of a lens depends on it’s 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 what is nI^x method briefly.
26. What is the bond angle of the following.
 - 1) Angle of $\text{H}\hat{\text{O}}\text{H}$ in water molecule
 - 2) Angle of $\text{H}\hat{\text{N}}\text{H}$ in Ammonia
27. Explain what happend to the value of resistance of a conductor if it’s cross sectional area is doubled and length is kept under constant.
28. Write any two questions to under stand how the metals extracted from their ore ?

SECTION - IV**5 × 4 = 20 M****Note:**

1. Write answer for all all the questions.
2. There is an internal choice for each question.
3. All question comes equal marks.
4. Each question caries 4 marks.

29. Write the appropriate reasons for the following phenomenon.
 - a) Water melon brought out forme refrigerator retains its coolness for a longer time than any other fruits.
 - b) Oceans behave like heat store houses for the earth.

(OR)

What is myopia ? How do we can rectify it?

30	Solution	A	B	C	D	E	F
	pH value	0	1	4	7	11	14

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

- 1) Which is strongest Acid
- 2) Which is weak acid
- 3) Which is strong Base
- 4) Which is neutral

(OR)

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

Matter	Bauxite	Zinc Blend	Pyrolusite	Zincite	Hematite	Cinnabar	Epsom salt	Galena
Formula	Al_2O_3 $2H_2O$	Zns	MnO_2	ZnO	Fe_2O_3	HgS	$MgSO_4$ $7H_2O$	PbS

31. Write the lab activity to obtain a relations 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 conduct.

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

(OR)

A, B and C are there elements which 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. If an object kept before a convex lens then draw the ray diagrams to the following positions of object.
- 1) At $2F_2$
 - 2) Beyond $2F_2$

(OR)

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