



**Sample Paper-I Answer Key  
(2026-27)**

**For Office  
Use Only**

<b>Class:</b>	XI Mathematics
<b>Time:</b>	03:00 Hrs.
<b>M.M:</b>	80

**Personal Information**

**Student's Name:-** \_\_\_\_\_ **Father's Name:-** \_\_\_\_\_

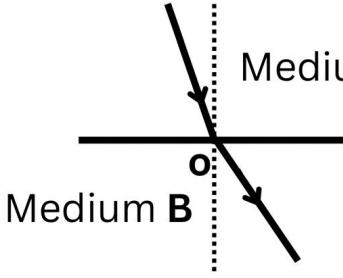
**City:-** \_\_\_\_\_ **Mobile No:-** \_\_\_\_\_ **Exam Date:-** / / 2026

**Studying in Class:-** \_\_\_\_\_ **Appearing for class:-** \_\_\_\_\_ **Board:-** \_\_\_\_\_

**Present School Name:-** \_\_\_\_\_ **Category :-** \_\_\_\_\_

<b>Physics (20)</b>	<b>Chemistry (15)</b>	<b>Mathematics (25)</b>	<b>English (10)</b>	<b>MAT (10)</b>	<b>Total (80)</b>	<b>Remark</b>

	<b>Physics (20)</b>	<b>M.M</b>
	<b>Choose the correct answer. (Q. 1 to 4)</b>	
1.	(c) A convex lens of focal length 2 m	1
2.	(b) correct reading for current I but incorrect reading for potential difference V	1
3.	(c) Momentum	1
4.	(a) different refractive index for different wavelength of each colour	1
	<b>Fill in the blank. (Q. 5 to 11)</b>	
5.	Retina	1
6.	Lens	1
7.	$^a \mu_b = 1.25$	1
8.	25 cm to infinity ( $\infty$ )	1
9.	No deflection (Neutrons are neutral particles)	1
10.	The direction of the force on the wire due to the magnet is upwards. (Out of the plane of paper)	1
11.	$R_{eq} = 8\Omega$	1
	<b>Do as directed (Q. 12 to 14)</b>	
12.	End B is the North pole, End A is the South pole.	1
13.		1

14.		1
15.	(c) Assertion (A) is true but reason (R) is false.	1
16.	(b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A)	1
17.	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).	1
18.	$H^1 = 2H$	1
19.	$\frac{1}{\sqrt{2}} = \frac{r_1}{r_2}$	1
20.	$H = 750 J$	1
<b>Chemistry (15)</b>		
21.	(c) The reaction of a metal with an acid.	1
22.	(a) $NaOH$	1
23.	(c) The outer surface of the beaker has become hot.	1
24.	(c) 2, 8	1
25.	(d) $CaO$	1
26.	(d) Both P and R are neutral salt solutions.	1
<b>Fill in the blank. (Q. 27 to 32)</b>		
27.	$NaHCO_3 + CH_3COOH \rightarrow CH_3COONa + H_2O + CO_2$	1
28.	$X - Na_2CO_3$ – Sodium Carbonate	1
29.	$Ni$ – Catalyst – Nickel catalyst	1
30.	Oxidation Reaction	1
31.	$  \begin{array}{cccccc}  & H & H & CH_3 & CH_3 \\  &   &   &   &   \\  2, 3 \text{ dimethyl Pentane } H & -C & -C & -C & -C & -C & -H \\  &   &   &   &   &   \\  & H & H & H & H & H  \end{array}  $	1
32.	Aqua regia – Royal water	1
33.	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).	1
34.	(d) Assertion (A) is false but reason (R) is true.	1
35.	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).	1

	<b>Mathematics (25)</b>	
	<b>Choose the correct answer. (Q. 36 to 40)</b>	
<b>36.</b>	(c) $\frac{3+\sqrt{5}}{2}, \frac{3-\sqrt{5}}{2}$	<b>1</b>
<b>37.</b>	(d) $10x - 14y = -4$	<b>1</b>
<b>38.</b>	(b) $\frac{x^2 - 1}{2x}$	<b>1</b>
<b>39.</b>	(a) $30^\circ$	<b>1</b>
<b>40.</b>	(a) 13	<b>1</b>
	<b>Fill in the blank. (Q. 41 to 47)</b>	
<b>41.</b>	$\sqrt{ab}$	<b>1</b>
<b>42.</b>	$cx^2 + bx + a$ <b>OR</b> $\frac{1}{C}(cx^2 + bx + a)$	<b>1</b>
<b>43.</b>	20 cm	<b>1</b>
<b>44.</b>	$100^\circ$	<b>1</b>
<b>45.</b>	500 revolutions	<b>1</b>
<b>46.</b>	17	<b>1</b>
<b>47.</b>	$P \leq 4$	<b>1</b>
<b>48.</b>	$12.96\text{ cm}^2$	<b>1</b>
<b>49.</b>	(a) $1.8 \times 1.4 \times 1.7$	<b>1</b>
<b>50.</b>	(d) (0, -9)	<b>1</b>
<b>51.</b>	(b) 6 units	<b>1</b>
	<b>Subjective Type Questions (Q. 52 to 56)</b>	
<b>52.</b>	$x = \frac{30}{11}$ metres <b>OR</b> 2.72	<b>1</b>
<b>53.</b>	so the no's are 40 and 48	<b>1</b>
<b>54.</b>	$\theta = 60^\circ$	<b>1</b>
<b>55.</b>	10.8 %	<b>1</b>
<b>56.</b>	$OP = 4$ cm	<b>1</b>
<b>57.</b>	$n \geq 11$	<b>1</b>
<b>58.</b>	$x = 6$	<b>1</b>
<b>59.</b>	$n = 7$	<b>1</b>
<b>60.</b>	$d = 2$	<b>1</b>
	<b>English (10)</b>	
<b>61.</b>	(a) Both A and R are true, and R is the correct explanation of A	<b>1</b>
<b>62.</b>	(c) False, because planned obsolescence is still widely practiced despite emerging regulations	<b>1</b>

<b>63.</b>	(c) Disposable plastics : Environmental degradation	<b>1</b>
<b>64.</b>	(c) They seek to empower consumers and reduce unnecessary product disposal	<b>1</b>
<b>Fill in the blanks. (Q. 65 to 67)</b>		
<b>65.</b>	<i>were</i>	<b>1</b>
<b>66.</b>	<i>had practised</i>	<b>1</b>
<b>67.</b>	<i>do we see</i>	<b>1</b>
<b>68.</b>		<b>3</b>
	<b>MAT (10)</b>	
	<b>Solve the question based on general intelligence. (Q. 69 to 78)</b>	
<b>69.</b>	(c) Grandson	<b>1</b>
<b>70.</b>	(a) Grandfather	<b>1</b>
<b>71.</b>	(a) CVT	<b>1</b>
<b>72.</b>	(b) 45	<b>1</b>
<b>73.</b>	(a) 5 m North	<b>1</b>
<b>74.</b>	(c) East	<b>1</b>
<b>75.</b>	(c) 36	<b>1</b>
<b>76.</b>	(c) 13	<b>1</b>
<b>77.</b>	(d) 4	<b>1</b>
<b>78.</b>	(b) Steps	<b>1</b>

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