| | Sample Paper-I Answer Key (2026-27) | For Office Use Only |
|---|---|---|
| **MACRO VISION ACADEMY BURHANPUR** | **Class:** X | |
| | **Time:** 03:00 Hrs. | |
| | **M.M:** 80 | |

**Personal Information**

Student's Name:-_____ Father's Name:-_____

City:-_____ Mobile No:-_____ Exam Date:-    /    /2026
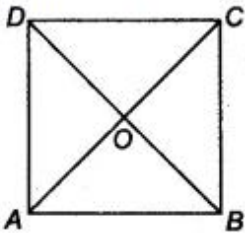
Studying in Class:- _____ Appearing for class:-_____ Board:- _____

Present School Name:-_____ Category:-_____

| Physics (10) | Chemistry (10) | Biology (10) | Mathematics (25) | Hindi (05) | English (10) | MAT (10) | Total (80) | Remark |
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| | | | | | | | | |

| | **Physics (10)** | MM |
|---|---|---|
| | **Choose the correct answer. (Q. 1 and 2)** | |
| **1.** | (a) Accelerated | 1 |
| **2.** | (c) Force and velocity | 1 |
| **3.** | Echo (Reflection of sound) | 1 |
| **4.** | D = 680 m | 1 |
| **5.** | KS-Represent uniform deceleration | 1 |
| **6.** | (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A). | 1 |
| **7.** | (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A). | 1 |
| **8.** | Longitudinal wave (Mechanical wave) | 1 |
| | **Fill in the blank. (Q. 9 and 10)** | |
| **9.** | Uniform acceleration | 1 |
| **10.** | W = 208333.33 J | 1 |
| | **Chemistry (10)** | |
| | **Choose the correct answer. (Q. 11 and 12)** | |
| **11.** | (d) 2 and 3 | 1 |
| **12.** | (d) A$l$Cl$_3$ | 1 |
| **13.** | Na$_2$CO$_3$ and Al$_2$(SO$_4$)$_3$ | 1 |

| 14. | Atomic no – 16        : K, L, M, N          Ele. Confi. $1S^2, 2S^2, 2P^6, 3S^2, 3P^4$ <br> Element – Sulphure : 2, 8, 6 | 1 |
|---|---|---|
| 15. | Picture (2) | 1 |
| 16. | (d) Assertion (A) is false but reason (R) is true. | 1 |
| 17. | (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A). | 1 |
| 18. | Mass neither be created not be destroyed in any chemical Reaction. <br> It is given by Antoine Lavoisier | 1 |
| | **Fill in the blank. (Q. 19 and 20)** | |
| 19. | Compound | 1 |
| 20. | Carbon – 12, C – 12 | 1 |
| | **Biology (10)** | |
| | **Choose the correct answer. (Q. 21 and 22)** | |
| 21. | (b) To provide strength to roots so that it can combat abiotic stresses | 1 |
| 22. | (c) They are non-striated, multinucleated and branched muscles. | 1 |
| 23. | A: Ribosomes <br> B: Mitochondria | 1 |
| 24. | Prokaryotic and Eukaryotic cells | 1 |
| 25. | Intercropping / Crop production management | 1 |
| 26. | (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A). | 1 |
| 27. | (c) Assertion (A) is true but reason (R) is false | 1 |
| 28. | Because they possess a rigid, outer cell wall made of cellulose, which provide structural support and protection. | 1 |
| | **Fill in the blank. (Q. 29 to 30)** | |
| 29. | Endoplasmic Reticulum | 1 |
| 30. | Xylem, Phloem | 1 |
| | **Maths (25)** | |
| | **Choose the correct answer. (Q. 31 to 35)** | |
| 31. | (a) $x$ is a rational number because $x$ can be written in the form $\frac{p}{q}$ by solving the equation $10x = 6 + x$. | 1 |
| 32. | (d) 497 | 1 |
| 33. | (c) No, but replacing 5 in the given equation with 8 will result in the equation having (4, 3) as one of its solutions. | 1 |
| 34. | (b) (i), (ii) and (iii) | 1 |
| 35. | (c) $100°$ | 1 |

| | | | |
|---|---|---|---|
| | **Fill in the Blank. (Q. 36 to 42)** | | |
| **36.** | Diameter | | **1** |
| **37.** | 1 | | **1** |
| **38.** | 336 cm² | | **1** |
| **39.** | $30 - 11\sqrt{10}$ | | **1** |
| **40.** | $x = 35°$ | | **1** |
| **41.** | $x = -7$ | | **1** |
| **42.** | $Area = \dfrac{\sqrt{3}}{3}x^2$ | | **1** |
| **43.** | (c) 1000 | | **1** |
| **44.** | $x - 10y = 0$ | | **1** |
| **45.** | (b) $\dfrac{17}{38}$ | | **1** |
| **46.** | $\dfrac{1}{40}$ | | **1** |
| | **Subjective Type Questions (Q. 47 to 51)** | | |
| **47.** | 130° | | **1** |
| **48.** | 5.59 cm **OR** $2.5\sqrt{5}\,cm$ | | **1** |
| **49.** | 1:8 | | **1** |
| **50.** | $x^4 + \dfrac{1}{x^4} = 527$ | | **1** |
| **51.** | **Given:** A square ABCD whose diagonals AC and BD intersect at O.<br><br><br><br>Prove that,<br><br>AC = BD<br><br>**Proof:** In A ABC and A BAD, we have<br><br>AB = BA (Common)<br><br>BC= AD (Sides of a square)<br><br>∠ABC = ∠BAD = 90°<br><br>∴ ΔABC ≅ ΔBAD (By SAS rule)<br><br>AC = BD<br><br>(Corresponding Parts of Congruent Triangle) | | **1** |
| **52.** | $3054\,cm^3$ **OR** $3054.857$ **OR** $972\pi cm^3$ **OR** $3055\,cm^3$ | | **1** |

| 53. | 216 | 1 |
|---|---|---|
| 54. | $9\pi\,cm^2$ **OR** $28.26\,cm^2$ | 1 |
| 55. | $18x^2\pi\,cm^2$ | 1 |
| | **Hindi (05)** | |
| 56. | विद्यार्थी द्वारा अपने शब्दों में लिखा जाए। | 3 |
| 57. | (क) चारों बेटों के नाम बताओ। <br> (ख) वह छत से गिर पड़ा। | 2 |
| | **English (10)** | |
| 58. | (d) It is a misleading concept that harms efficiency. | 1 |
| 59. | (b) Have difficulty organizing thoughts and filtering information. | 1 |
| 60. | (d) Critical but balanced. | 1 |
| 61. | (c) South Asia and Sub-Saharan Africa | 1 |
| 62. | (b) Ensuring equitable quality education for all | 1 |
| 63. | (d) Socio-economic factors | 1 |
| 64. | | 4 |
| | **MAT (10)** | |
| | **Solve the question based on general intelligence. (Q. 65 to 74)** | |
| 65. | (a) NCLAGJ | 1 |
| 66. | (b) QMCPV | 1 |
| 67. | (c) 38 | 1 |
| 68. | (b) 162 | 1 |
| 69. | (c) Grandmother | 1 |
| 70. | (b) Nephew | 1 |
| 71. | (a) 6 km North | 1 |
| 72. | (a) 24 km East | 1 |
| 73. | (b) 2 | 1 |
| 74. | (b) Echo | 1 |

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