INDIAN SCHOOL MUSCAT

| NAME OF THE <br> EXAMINATION | FIRST PERIODIC TEST | CLASS: XI |
| :--- | :--- | :--- |
| DATE OF EXAMINATION | $13-09-2022$ | SUBJECT: APPLIED <br> MATHEMATICS |
| TYPE: DESCRIPTIVE | MARKING SCHEME |  |


| SET | Q.NO | VALUE POINTS |  |  |  |  | MARK |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 1 | 2. 6990 |  |  |  |  | 1 |
|  | 2 | 5/6 |  |  |  |  | 1 |
|  | 3 | 4.5 cm |  |  |  |  | 1 |
|  | 4 | 38 |  |  |  |  | 1 |
|  | 5 | $18 \mathrm{~km} / \mathrm{hr}$ |  |  |  |  | 1 |
|  | 6 | $2^{0}+2+2^{3}+2^{5}+2^{6}=107$ |  |  |  |  | 2 |
|  | 7 | $\begin{aligned} \mathrm{A} & =\left(30^{\circ} \times H\right)-\left(\frac{11}{2} \times t\right) \\ & =\left(30^{\circ} \times 7\right)-\left(\frac{11}{2} \times 20\right) \\ & =100^{\circ} \end{aligned}$ |  |  |  |  | $1$ <br> 1 |
|  | 8 | Work done by A in one day $=1 / 10$ <br> Work done by B in one day $=1 / 5$ <br> Work done together in a day $=3 / 10$ <br> Time taken to complete the work together $=10 / 3$ days |  |  |  |  | $\begin{array}{\|l\|} \hline 1 / 2 \\ 1 / 2 \\ 1 / 2 \\ 1 / 2 \end{array}$ |
|  | 9 | Diya Priya Shiva Kavya Riya(i) Priya and Kavya(ii) one |  |  |  |  | $\begin{aligned} & \hline 1 \\ & 1 \\ & 1 \end{aligned}$ |
|  | 10 | $\begin{aligned} x & =(1.06)^{4} \\ \log x & =4 \times \log (1.06) \\ & =4 \times 0.0253 \\ & =0.1012 \\ x & =\operatorname{antilog}(0.1012) \\ & =1.263 \end{aligned}$ |  |  |  |  | $\begin{array}{\|l\|} \hline 1 \\ 1 / 2 \\ 1 / 2 \\ 1 / 2 \\ 1 / 2 \end{array}$ |
|  | 11 | 4 th June 2002 => Tuesday |  |  |  |  | 3 |
| B | 1 | 12 |  |  |  |  | 1 |
|  | 2 | 38 |  |  |  |  | 1 |
|  | 3 | $25 \mathrm{~m} / \mathrm{s}$ |  |  |  |  | 1 |
|  | 4 | 3 units |  |  |  |  | 1 |
|  | 5 | 2.6021 |  |  |  |  | 1 |
|  | 6 | Work done by A in one day $=1 / 20$ |  |  |  |  | 1/2 |



