## Question Paper

## Set 2

## Subject: Maths

Grade: IX



| Q. | Folder <br>  <br> Question <br> Code | Topic | Question with Answer <br> Options | Image <br> (If Any) | Correct Answer <br> (Option-A,B,C,D) |
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| 3 | $5 \_26$ <br> Mathemati <br> cs <br> 1654 | Linear <br> Equations In <br> Two <br> Variables | A 3 kg bag of rice lasts <br> exactly 30 days for Mrs. and <br> Mr. Pestonjee when both <br> consume equal amounts. If <br> Mr. Pestonjee cuts down his <br> rice intake by half on his <br> doctor's advice, how many <br> days would a 3 kg bag last <br> them? | B |  |



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| :--- | :---: | :--- | :---: | :---: | :---: | :---: |
| 5 | $5 \_27$ <br> Mathemati <br> cs <br> 8448 | Linear <br> Two <br> Variables | A shopkeeper decreases the <br> selling price of a ceiling fan <br> by $10 \%$ at the start of <br> winter. When winter is <br> over, he decides to raise the <br> price back to the original <br> selling price. By what <br> percent would he need to <br> increase the lowered price <br> in order to do this? | B |  |





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| :--- | :---: | :---: | :---: | :---: | :---: |
| 9 | 5_27 <br> Mathemati <br> cs <br> 8437 | Linear <br> Two <br> Variables | Mrs. Nair opts for a mobile <br> Vhone offer that charges a <br> monthly fee of Rs. 250 plus <br> a charge of Rs. 1.25 per <br> minute for local calls.She <br> fixes a budget of Rs. 400 per <br> month for her mobile phone <br> bill. At most how many <br> minutes can she use the <br> phone (local) each month <br> while staying within her <br> budget | C |  |




| $\begin{aligned} & \mathrm{Q} . \\ & \mathbf{N} \end{aligned}$ | Folder name \& Question Code | Topic | Question with Answer Options |  |  | Image (If Any) | Correct Answer (Option-A,B,C,D) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | 5_27 <br> Mathemati <br> CS <br> 8444 | Linear <br> Equations In <br> Two <br> Variables | While doing her Physics homework, Archana has to use the formula $1 / R=1 / R_{1}+$ $1 / R_{2}$. How could she rewrite this formula to get the correct value of $R_{2}$ when $R$ and $R_{1}$ are given? |  |  |  |  |  |
|  |  | Answer Options |  |  |  |  |  |  |
|  |  | Option A |  | Option B |  | ion C | Option D |  |
|  |  | $\mathrm{R}_{2}=\mathrm{R}-\mathrm{R}_{1}$ |  | $\mathrm{R}_{2}=1 /\left(\mathrm{R}-\mathrm{R}_{1}\right)$ | $\mathrm{R}_{2}=$ | (R-R1-RR ${ }_{1}$ ) | $\mathrm{R}_{2}=\mathrm{RR}_{1} /\left(\mathrm{R}_{1}-\mathrm{R}\right)$ |  |


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| 13 | $5 \_28$ <br> Mathemati <br> cs <br> 10099 | Linear <br> Equations In <br> Two <br> Variables | A painter is able to paint a <br> flat in 8 days. How many <br> days would it have taken to <br> paint the flat if he had two <br> more painters working with <br> him - one working at the <br> same speed as him, and <br> another working at double <br> that speed ? | D |  |



| $\begin{aligned} & \mathrm{Q} . \\ & \mathbf{N} \end{aligned}$ | Folder name \& Question Code | Topic | Question with Answer Options | Image <br> (If Any) | Correct Answer (Option-A,B,C,D) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 14 | 5_28 Mathemati cs 10101 | Linear <br> Equations In <br> Two <br> Variables | The ratio of the height of two plants X and Y is 2:1. If plant X grows at the rate of 2 metres per year, at what rate should plant $Y$ grow so that after 4 years they are of the same height? |  | D |


| Answer Options |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Option A | Option B | Option C | Option D |
| 1.5 metres per year | 2.25 metres <br> per year | 2.5 metres per <br> year | It will vary depending on <br> the height of Y. |


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| :--- | :---: | :--- | :---: | :---: | :---: |
| 15 | $5 \_28$ <br> Mathemati <br> cs <br> 10103 | Linear <br> Equations In <br> Two | The light signals at a traffic <br> Crossing (in a particular <br> direction) were timed in <br> such a way that the traffic <br> had the 'STOP' signal for s <br> seconds and the 'GO' signal | C |  |
| for g seconds. Rajat stopped |  |  |  |  |  |
| at the signal when the light |  |  |  |  |  |$\quad$|  |
| :--- |



