

SECTION – B

7	An element 'X' has a valency 3: (a) Write the formula of its bromide. (b) Write the formula of its carbonate.	2
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SECTION – C

8	(a) Give the chemical formulae of the following compounds and compute the ratio by mass of the combining elements in each one of them. (i) Hydrogen chloride (ii) Carbon dioxide (b) Give an example of a triatomic molecule.	3
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SECTION-D

9	(a) A light and a heavy object have the same momentum. What is the ratio of their kinetic energies? Which one has a larger kinetic energy? (b) A ball is dropped from a height of 10 m. If the energy of the ball reduces by 40% after striking the ground, how much high can the ball bounce back? ($g = 10 \text{ m/s}^2$)	5
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SECTION – E

10.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Test</th> <th style="text-align: center;">Patient's value</th> <th style="text-align: center;">Normal value</th> </tr> </thead> <tbody> <tr> <td>RBC count(cells/mmc)</td> <td style="text-align: center;">2.8</td> <td style="text-align: center;">3.8-5.2</td> </tr> <tr> <td>Haemoglobin(g/dl)</td> <td style="text-align: center;">7.5</td> <td style="text-align: center;">12-16</td> </tr> <tr> <td>Platelet count(number/mmc)</td> <td style="text-align: center;">285</td> <td style="text-align: center;">150-400</td> </tr> </tbody> </table> <p>The table given above is the blood test result of an anaemic patient.</p> <p>a) The time taken for clotting of blood in this person is normal. Why? b) In the above blood test result , the number of RBCs and the amount of haemoglobin is less. How are these two related? c) Which component of blood is considered as "Soldiers of our body"? Why?</p> <p style="text-align: center;">OR</p> <p>c) State any four functions of blood.</p> <p style="text-align: center;">*****THE END*****</p>	Test	Patient's value	Normal value	RBC count(cells/mmc)	2.8	3.8-5.2	Haemoglobin(g/dl)	7.5	12-16	Platelet count(number/mmc)	285	150-400	4
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