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| **Part B****Constructed-Response Questions 11 to 25** Show all the work and units needed to solve the problem.  You will be given no marks if you provide the right answer without showing your work.  However, you will be given part marks for work that is partially correct.  **Significant figures will be evaluated in question 25 only.** |

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| 11.    An anesthetic agent is a type of medicine used to control pain during surgery.    Nitrous oxide,, has been used since the 1840’s as a mild anesthetic in dental surgery. Side effects of  includes nausea, headaches and vomiting.    Today a mixture of 30 %  and 70 % oxygen gas,, is used on patients. The  and  gases are stored in tanks and administered in exact doses by a machine.    The patient wears a mask with two tubes. One tube administers the gaseous mixture, while the vacuum tube removes the exhaled gas. The exhaled gas mixture includes.    **Anesthesia Apparatus** |