| 10.     | 00                      | _            |  |  | 1  |   |   |   |  |  |  |   |   |  |   |  |   |   |  |   |  |  |  |   |  |  |  | - 1   |   |
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| lot a g | graph                   | of lo        | og v a                                       | aga<br>vide  | inst   | log<br>o sł   | gB  | on<br>v aı  | th<br>ny   | e g  | gric   | d o   | pp<br>ed  | osi<br>da  | ite.  |  |   |   |  |   |  |  |  |   |  |  |  |   |   |
|         |                         |              |  |  |  |   |   |   |  |  |  |   |   |  |   |  |   |   |  |   |  |  |  |   |  |  | (5   |   | Ŧ   |
|         |                         |              |  |  |  |   |   |   |  |  |  |   |   |  |   |  |   |   |  |   |  |  |  |   |  |  |  |   |   |
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|         |                         |              |  |  |  |   |   |   |  |  |  |   |   |  |   |  |   |   |  |   |  |  |  |   |  |  |  |   | E   |
|         |                         |              |  |  |  |   |   |   |  |  |  |   |   |  |   |  |   |   |  |   |  |  |  |   |  |  |  |   |   |
|         |                         |              |  |  |  |   |   |   |  |  |  |   |   |  |   |  |   |   |  |   |  |  |  |   |  |  |  |   | F   |
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(Total for Question 9 = 10 marks)

The Beaufort scale is used to describe wind intensity. On this scale the average wind speed v increases with the Beaufort scale value B.

The relationship between v and B is given by