

QUESTION 1: MULTIPLE-CHOICE QUESTIONS

Various options are provided as possible answers to the following questions. Each question has only **ONE** correct answer. Write only the letter (A–D) next to the question number (1.1–1.10) in the **ANSWER BOOK**.

- 1.1 Consider the following vector diagram:



The vector which represents the resultant of the other two, is ...

- A AB.
B AC.
C CB.
D BA. (2)
- 1.2 Two forces of magnitudes 11 N and 5 N respectively, act simultaneously on an object. Which **ONE** of the following **CANNOT** be the resultant of the two forces?
A 5 N
B 7 N
C 9 N
D 16 N (2)
- 1.3 A ball is dropped onto a concrete floor and bounces off the floor to the same height from which it was dropped. Which **ONE** of the following laws best explains why the ball experiences an upward force?
A Newton's first law of motion
B Newton's second law of motion
C Newton's third law of motion
D Newton's law of universal gravitation (2)

Physical Science Exemplar Paper 1 2013

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