# 香港考試及評核局 HONG KONG EXAMINATIONS AND ASSESSMENT AUTHORITY <br> 香港中學文憑考試 <br> HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION 

練習卷
PRACTICE PAPER
組合科學（物理）
COMBINED SCIENCE（PHYSICS）

## 評卷參考 <br> MARKING SCHEME

## （2012年2月25日修訂稿）

（updated as at 25 Feb 2012）

本評卷參考乃香港考試及評核局專爲本科練 習卷而編寫，供教師和學生參考之用。學生不應將評卷參考視爲標準答案，硬背死記，活剥生吞。這種學習態度，既無助學生改善學習，學懂應對及解難，亦有違考試着重理解能力與運用技巧之旨。

This marking scheme has been prepared by the Hong Kong Examinations and Assessment Authority for teachers＇and students＇reference．This marking scheme should NOT be regarded as a set of model answers．Our examinations emphasise the testing of understanding，the practical application of knowledge and the use of processing skills．Hence the use of model answers，or anything else which encourages rote memorisation，will not help students to improve their learning nor develop their abilities in addressing and solving problems．


| 1 | D |
| :--- | :--- |
| 2 | A |
| 3 | C |
| 4 | C |
| 5 | C |
| 6 | B |
| 7 | D |
| 8 | B |
| 9 | A |
| 10 | B |
| 11 | A |
| 12 | D |
| 13 | A |
| 14 | C |
| 15 | B |
| 16 | D |
| 17 | C |
| 18 | D |
| 19 | D |
| 20 | B |
| 21 | B |
| 22 | A |
| 23 | C |
| 24 | A |

## Section B Marking Scheme

## General Notes for Teachers on Marking

1. This marking scheme has been updated, with revisions made after the scrutiny of actual samples performance in the practice papers. Teachers are strongly advised to conduct their own internal standart procedures before applying the marking schemes. After standardisation, teachers should adhere to the mat scheme to ensure a uniform standard of marking within the school.
2. The marking scheme may not exhaust all possible answers for each question. Teachers should exercise their professional discretion and judgment in accepting alternative answers that are not in the marking scheme but are correct and well reasoned.
3. In the marking scheme, marks are classified as follows :
' M ' marks - awarded for knowing a correct method of solution and attempting to apply it. (Candidates are not expected to write down the formula/method explicitly, marks could be awarded once candidates' work indicated that the particular formula/method had been used.)
' A ' marks - awarded for the accuracy of the answer. (For non-numerical answers, the answers need not be in exact wording as those in the marking scheme.)

In a question consisting of several related parts, ' $M$ ' marks should be awarded to steps or methods correctly deduced from erroneous answers obtained in earlier parts. However, 'A' marks for the corresponding numerical answer should NOT be awarded.
4. In questions involving numerical computations, if a candidate's answer clearly indicated that a wrong method had been used (e.g. the application of a wrong formula), the ' A ' marks should not be awarded even if the candidate had accidentally arrived at the correct numerical answer. In case of doubt, the benefit should be given in the candidate's favour.
5. If the unit had been stated wrongly in the final numerical answer of a question, or if it had been omitted completely, no 'A' marks should be awarded to the final answer. However, candidates should not be penalised twice in the whole paper for the same error in that unit.
6. In questions asking for a specified number of reasons or examples etc. to be given and a candidate gave more than that is required, the surplus answers should not be marked. For example, in a question asking for two examples, if three had been given by a candidate, then only the first two answers should be marked.
7. Markers could exercise their judgment to split the ' 2 A ' or ' 2 M ' marks (if any), i.e. to award 1 mark only, if the answer is partially correct.




| 7. Solution |  |
| ---: | :--- |
| (a) $\quad P$ | $=\frac{E}{t}$ |
|  | $=\frac{2400}{120}$ |
|  | $=20 \mathrm{~W}$ |
| (b) $\quad P$ | $=V I$ |
| 20 | $=12 \times I$ |
| $I$ | $=1.67 \mathrm{~A}$ |$\quad$



