

Instructions and hints:

- Read both texts carefully before proceeding with their summary or translation.
- Write with medium sized clear calligraphy. It is recommended to first write a rough draft on a scratch paper.
- **No dictionary is allowed.** If you do not know the meaning of a word or expression, leave it untranslated and underlined. We are interested in what you know by yourself, not in the quality of your dictionary.
- Try to do your best to get your summary in 150 ± 50 words. Other lengths will be penalized.
- To prevent grammatical errors use simple and short sentences. If you end up with a very long sentence try to split it.
- Avoid literal translations (word for word). Try to understand the text and explain it in your own words.
- Notice that the mark obtained here weights 60% of your final mark.

1. (5 points) Summarize the following text in about 150 words.

^{¶1} *The spontaneous upwelling of a heated fluid can be understood only by untangling the intricate relations among temperature, viscosity, surface tension and other characteristics of the fluid.*

^{¶2} Convection should be familiar to anyone who has observed the roiling of a heated broth, felt the draft drawn up the flue of a fireplace or noticed the shimmering of air currents over a paved road on a sunny day. The same mechanism of convective flow is responsible for the great ocean currents and for the global circulation of the atmosphere; it gives rise to motions on a still larger scale in the sun's photosphere. Certain kinds of clouds are formed when warm, moist air ascends in a convective plume, and it is a disruption of normal convective transport that periodically leaves cities such as Los Angeles and Madrid smogbound under a temperature inversion. Other examples are less familiar or less easily observed. Convection has an important influence on the drying of paint films and on the dispersal of gases and particles in the lungs. Convection in the earth's mantle is apparently the motive force for the slow motion of the continents.

^{¶3} The most elementary kinds of convection would seem to have a simple explanation, which can be summed up in the expression "Heat rises." In the simplest cases convective flow begins when a fluid (either a gas or a liquid) is heated from below. In response to the heating the bottom layer of the fluid expands and thereby becomes less dense than the overlying layers. The warmer and lighter bottom layer then tends to rise and the cooler top layer tends to sink. This much at least was known by the 18th century. It may therefore come as a surprise that the formulation of a detailed and quantitative account of convection has proved a lasting challenge to the ingenuity of theorists. Indeed, even the simplest system undergoing vigorous convective motion cannot yet be given an exact mathematical description.

^{¶4} The nature of the theoretical difficulties can be suggested by considering again the case of a fluid layer heated from below. The force that drives the convective flow in such a fluid is the buoyancy of the heated layer, and the magnitude of this force is determined by the difference in temperature between the top and the bottom of the layer. The complexity of the matter becomes apparent when one recognizes that the temperature distribution is greatly altered by the convective flow itself, which carries heat from the bottom of the layer to the top. Thus the force that drives the flow is subject to modification by the flow.

^{¶5} Although exact solutions to the problems such as this one are still lacking, substantial progress

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Unveiling the Magic of Words: A Review of "**Jun2014 B1hp Mark Scheme**"

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