

# Specifications for Calculators to be used in the Physics Aptitude Test (PAT)

Candidates are responsible for making sure that their calculators meet the PAT specification listed below:

<p><b>Calculators must be:</b></p> <ul style="list-style-type: none"> <li>❖ of a size suitable for use on the desk;</li> <li>❖ either battery or solar powered;</li> <li>❖ free of lids, cases and covers which have printed instructions or formulas;</li> <li>❖ non-graphical.</li> </ul>	<p><b>Calculators must not:</b></p> <ul style="list-style-type: none"> <li>• be designed or adapted to offer any of these facilities: - <ul style="list-style-type: none"> <li>❖ language translators;</li> <li>❖ symbolic or numerical algebraic manipulation;</li> <li>❖ symbolic or numerical differentiation or integration;</li> <li>❖ able to solve inequalities;</li> <li>❖ able to solve simultaneous equations;</li> <li>❖ able to plot graphs;</li> <li>❖ communication with other machines or the internet;</li> </ul> </li> <li>• be borrowed from another candidate during an examination for any reason;*</li> <li>• have retrievable information stored in them - this includes: <ul style="list-style-type: none"> <li>❖ databanks;</li> <li>❖ dictionaries;</li> <li>❖ mathematical formulas;</li> <li>❖ text;</li> </ul> </li> </ul>
<p><b>The candidate is responsible for the following:</b></p> <ul style="list-style-type: none"> <li>❖ the calculator's power supply;</li> <li>❖ the calculator's working condition;</li> <li>❖ Clearing anything stored in the calculator.</li> </ul>	

**Advice:**\* An invigilator may give a candidate a replacement calculator which conforms to the specifications allowed for the PAT.

**Examples** of calculators which meet the specifications of the PAT are:

- ❖ Casio fx83GTplus and fx85GTplus;
- ❖ Sharp ELW531B;
- ❖ Aurora AX-595TV.

**Examples** of calculators which do **NOT** meet the specifications of the PAT are:

- ❖ Casio CLASSWIZ (e.g. fx-991EX, fx-991ESPLUS and fx-570EX);
- ❖ Canon F-789SGA;
- ❖ Sharp EL-9950.