

Approved Scientific Calculators for Examinations

CANON F720	CASIO fx-350MS	RSB FB 350MS
CANON F720i	CASIO fx-350TL	SHARP EL-509R
CASIO fx-82AU	CASIO fx-570AD	SHARP EL-509V
CASIO fx-82AU PLUS	CASIO fx-580	SHARP EL-520VA
CASIO fx-82MS	CASIO fx-901	SHARP EL-520WG
CASIO fx-82NASER	CASIO fx-911W	SHARP EL-W531HA
CASIO fx-82TL	CASIO fx-911Z	SHARP EL-531LH
CASIO fx-83WA	CASIO fx-992S	SHARP EL-531RH
CASIO fx-85MS	CITIZEN SR-135	SHARP EL-531VH
CASIO fx-85WA	CITIZEN SR-260	SHARP EL-531WH
CASIO fx-95MS	HEWLETT-PACKARD HP-8S	TEXET Albert ² (TX 890)
CASIO fx-100AU	HEWLETT-PACKARD HP-10S	TEXET Albert ³ (TX 895)
CASIO fx-100S	OFFICE ONE 720	TEXET Albert ⁵ (TX 842)
CASIO fx-115WA	OFFICE ONE 3000	

General requirements

All calculators must be silent (except in approved cases for blind candidates), hand-held, and battery- or solar-powered.

Instruction booklets or cards (eg reference cards) on the operation of calculators are not permitted in the examination centre. Candidates are expected to familiarise themselves with the calculator's operation beforehand.

Features of approved calculators

In addition to the features of a basic (four operation) calculator, a scientific calculator may include some or all of the following:

- fraction keys (for fraction arithmetic)
- a percentage key
- a π key
- memory access keys
- an EXP key and a sign change (+/-) key
- square (x^2) and square root ($\sqrt{\quad}$) keys
- logarithm and exponential keys (base 10 and base e)
- a power key (a^x , x^y or similar)
- trigonometrical function keys with an INVERSE key for the inverse functions
- a capacity to work in both degree and radian mode
- a reciprocal key ($1/x$)
- permutation and/or combination keys (${}^n P_r$, ${}^n C_r$)
- cube and/or cube root keys
- parentheses keys
- statistical operations such as mean and standard deviation
- metric or currency conversion.

Features that are not permitted

Calculators with the following features will not be approved:

- programmable (any calculator that can have a sequence of operations stored and then executed automatically is considered programmable and hence not allowed)
- capable of storing alphanumeric data input by a user (this does not exclude calculators with memories that are used to store intermediate numerical results obtained during calculations and required later)
- capable of storing, manipulating or graphing functions entered in symbolic form (this includes calculators with a graphic display capacity)
- capable of performing 'hard-wired' numerical routines for operations such as differentiation and definite integration, and the solution of equations
- capable of performing 'hard-wired' symbolic manipulations such as addition of algebraic expressions, binomial expansion and symbolic differentiation.

Scientific Calculator

