1   Fig. 2.1 shows the extension-load graph for a spring.
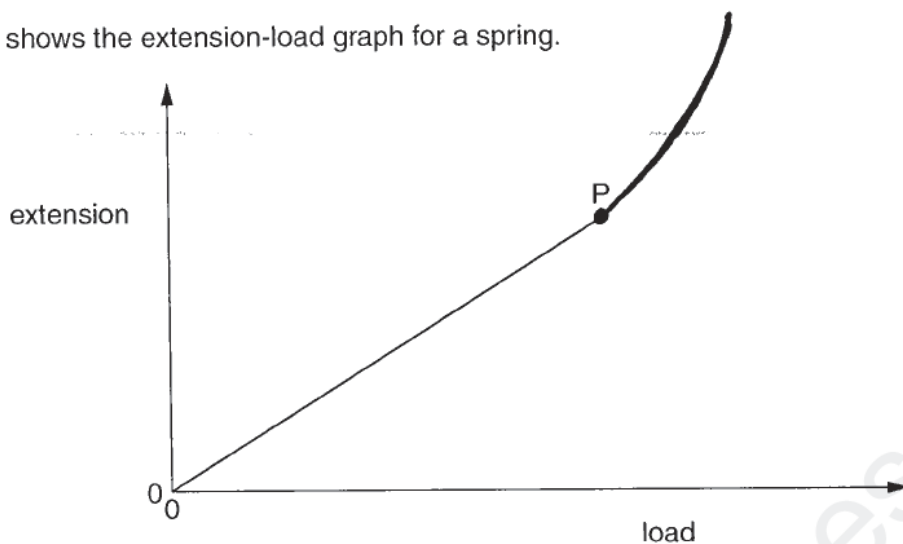

Fig. 2.1

Point P is the limit of proportionality.

(a) **(i)** Name the law obeyed by the spring from the origin to P.

Hooke's law

(ii) Describe two features **of the graph** which show that the law is obeyed.

Straight line graph passing through the orign

(b) On Fig. 2.1, sketch a possible continuation of the graph when the spring is loaded beyond the limit of proportionality.