Mark schemes

Q1.

С

 $\frac{R}{2}$

[1]

Q2.

В

10⁴ m

[1]

Q3.

D

The work done moving from **Q** to **R** and moving from **Q** to **S** is the same.

[1]

Q4.

В

$$\left(\frac{M}{R}\right)^{\frac{1}{2}}$$

[1]

Q5.

В

$$\sqrt{\frac{GM}{(R+h)}}$$

[1]

Q6.

D

Signals from the satellite can be sent to at any point on the Earth's surface during one orbit.

[1]

Q7.

D

[1]

Q8.
B
C
11
Q10.
C
11
Q11.
D
11