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|--------|---|------------------|-------------|
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Section A

1 (a) region of space area / volume where a mass experiences a force B1
B1 [2]

(b) (i) force proportional to product of two masses
force inversely proportional to the square of their separation
either reference to point masses or separation \gg 'size' of masses M1
M1
A1 [3]

(ii) field strength $= GM / x^2$ or field strength $\propto 1 / x^2$
ratio $= (7.78 \times 10^8)^2 / (1.5 \times 10^8)^2$
 $= 27$ C1
C1
A1 [3]

(c) (i) either centripetal force $= mR\omega^2$ and $\omega = 2\pi / T$
or centripetal force $= mv^2 / R$ and $v = 2\pi R / T$
gravitational force provides the centripetal force
either $GMr / R^2 = mR\omega^2$ or $GMr / R^2 = mv^2 / R$
 $M = 4\pi^2 R^3 / GT^2$
(allow working to be given in terms of acceleration) B1
B1
M1
A0 [3]

(ii) $M = \{4\pi^2 \times (1.5 \times 10^{11})^3\} / \{6.67 \times 10^{-11} \times (3.16 \times 10^7)^2\}$
 $= 2.0 \times 10^{30} \text{ kg}$ C1
A1 [2]

2 (a) obeys the equation $pV = \text{constant} \times T$ or $pV = nRT$
 p , V and T explained
at all values of p , V and T /fixed mass/ n is constant M1
A1
A1 [3]

(b) (i) $3.4 \times 10^2 \times 2.5 \times 10^3 \times 10^{-6} = n \times 8.31 \times 300$
 $n = 0.34 \text{ mol}$ M1
A0 [1]

(ii) for total mass/amount of gas
 $3.9 \times 10^2 \times (2.5 + 1.6) \times 10^3 \times 10^{-6} = (0.34 + 0.20) \times 8.31 \times T$
 $T = 360 \text{ K}$ C1
A1 [2]

(c) when tap opened
gas passed (from cylinder B) to cylinder A
work done on gas in cylinder A (and no heating)
so internal energy and hence temperature increase B1
M1
A1 [3]

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**American Society of Civil Engineers.
Engineering Mechanics Division**

4024 S13 Ms 12 Max Papers:

Journal of the Engineering Mechanics Division American Society of Civil Engineers. Engineering Mechanics Division, 1965

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