

Question	Answer	Marks
1(a)(i)	(gravitational) force is (directly) proportional to product of masses	B1
	force (between point masses) is inversely proportional to the square of their separation	B1
1(a)(ii)	$g = F/m$	C1
	$F = GMm/r^2$ and so $g = [GMm/r^2]/m = GM/r^2$	A1
1(b)(i)	$g = (6.67 \times 10^{-11} \times 7.35 \times 10^{22})/(1.74 \times 10^6)^2 = 1.62 \text{ N kg}^{-1}$	A1
1(b)(ii)	fields (due to Earth and the Moon) have equal magnitudes	B1
	fields (due to Earth and the Moon) are in opposite directions	B1
1(b)(iii)	distance of X from Earth = $(3.84 \times 10^8 - x)$	C1
	$(G \times) 7.35 \times 10^{22}/x^2 = (G \times) 5.98 \times 10^{24}/(3.84 \times 10^8 - x)^2$	C1
	$x = 3.8 \times 10^7 \text{ m}$	A1

Question	Answer	Marks
2(a)(i)	(vertically) downwards	B1
2(a)(ii)	magnetic force (on sphere) is perpendicular to its velocity	B1
	magnetic force perpendicular to velocity is the centripetal force or magnetic force perpendicular to velocity causes centripetal acceleration or acceleration perpendicular to velocity is centripetal (acceleration) or magnetic force does not change the speed of the sphere or magnetic force has constant magnitude	B1
2(b)	$mg = Bq$	C1
	$E = (1.6 \times 10^{-19} \times 9.81)/(0.27 \times 10^{-9})$ $= 5.8 \text{ N C}^{-1}$	A1
2(c)	centripetal force = magnetic force or $Bqv = mv^2/r$	B1
	$B = mv/rq$	C1
	$= (1.6 \times 10^{-19} \times 0.78)/(0.27 \times 10^{-9} \times 3.4) = 0.14 \text{ T}$	A1

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**G.H. Spence,J. Redfern,R.
Aguilera,T.G. Bevan,J.W. Cosgrove,
G.D. Couples,J.-M. Daniel**

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