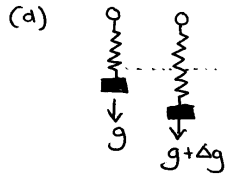


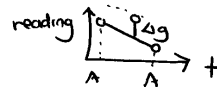
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2002

- Q1 (a) From notes
 (b) From notes
 (c) see 2001 exam



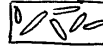
→ make relative measurements at a location 'A' where absolute value is pre-surveyed
 → Find Δg between this location and all other points;



Q2(a) see Figure

(b) $\rho_{min} = 5 \text{ g/cm}^3 ; m = 1$

$\rho_{max} = 250 \text{ g/cm}^3 ; m = 2$



fluid in cracks;
 "interconnected"



fluid in spheres;
 "not connected"

Brine: ionic conductor

Rock: no charge carriers; $\rho \uparrow$

(c) see 2001 exam

Q3 (a) From notes

(b) See figure

(c) notes ; $\sim \ln T$

(d) see 2001 exam;

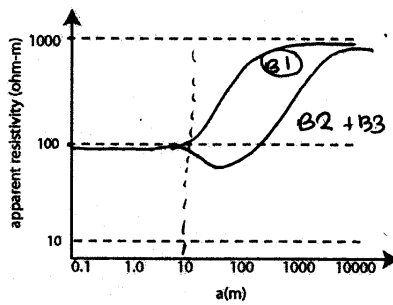
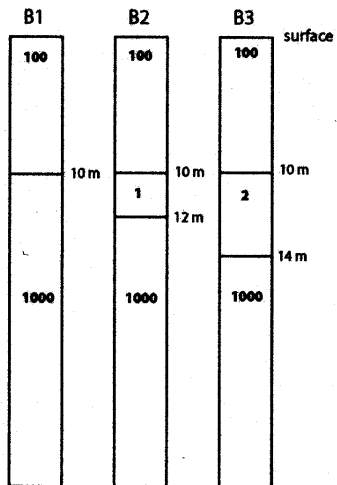
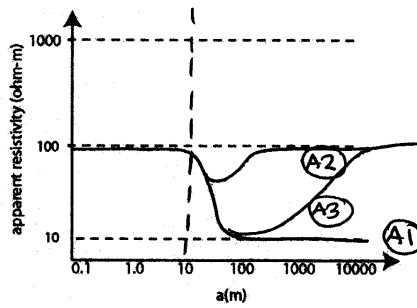
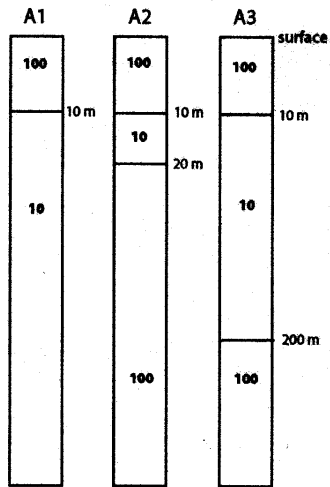
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Figure 1

Question 2a

All resistivity values are in ohm.m

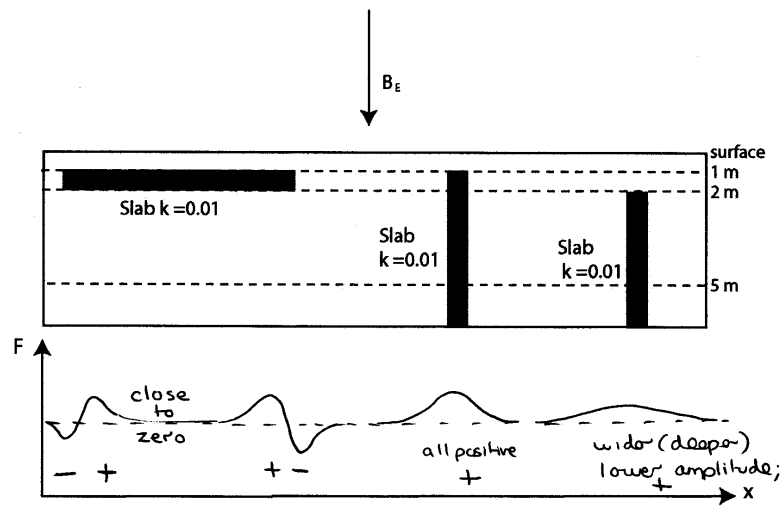
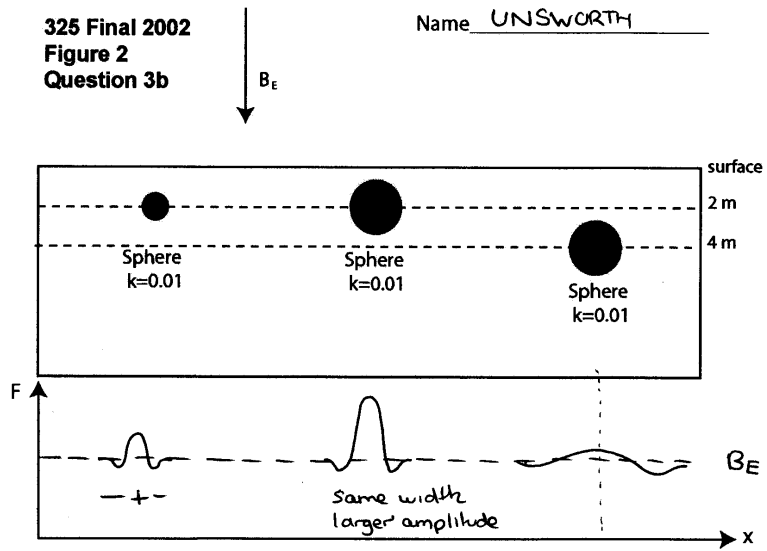
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B2 + B3 : same
conductance
=> same curves;

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 Figure 2
 Question 3b

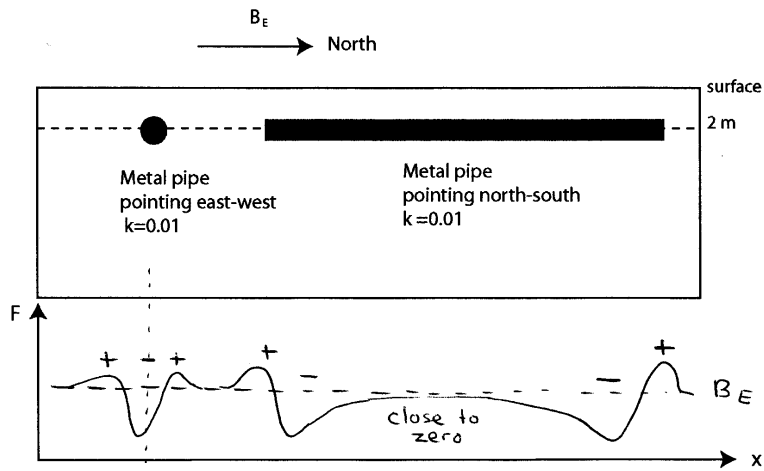
Name UNSWORTH



CONSIDER ONLY INDUCED MAGNETIZATION

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Figure 2 (continued)
Question 3b

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CONSIDER ONLY INDUCED MAGNETIZATION