

Section A

[15 marks]

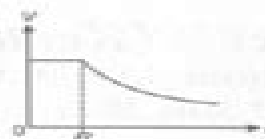
Answer all questions in this section.

- 1 Three charged particles which are arranged in a straight line as shown in the diagram below.



What is the electrostatic force acting on Q_2 due to the other two charges?

- A 12.5 N in the negative- x direction
 - B 12.5 N in the positive- x direction
 - C 27.5 N in the negative- x direction
 - D 27.5 N in the positive- x direction
- 2 The variation of the electric potential V with distance r from the centre of a charge conducting sphere of radius R is shown by the graph below.



Which graph shows the relationship between the electric field strength E with the distance r ?



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Roman Wölfel



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Geospatial Data Science Techniques and Applications Hassan A. Karimi, Bobak Karimi, 2017-10-24 Data science has recently gained much attention for a number of reasons and among them is Big Data Scientists from almost all disciplines including physics chemistry biology sociology among others and engineers from all fields including civil environmental chemical mechanical among others are faced with challenges posed by data volume variety and velocity or Big Data This book is designed to highlight the unique characteristics of geospatial data demonstrate the need to different approaches and techniques for obtaining new knowledge from raw geospatial data and present select state of the art geospatial data science techniques and how they are applied to various geoscience problems

Comparative Cognition Mary C. Olmstead, Valerie A. Kuhlmeier, 2015-01-15 Integrating developments from psychology ethology and neuroscience this is an undergraduate introduction to cognitive processes across species The authors merge classic studies and contemporary research to give students a full picture of the evolving field of comparative cognition Engaging students in the discipline from its roots in animal learning and evolutionary biology through to current research the chapters cover both controlled laboratory and comparative cross species studies in the natural environment This approach provides students with complementary ethological and neurobiological perspectives on cognition Feature boxes encourage active and engaged learning giving a deeper understanding of topics discussed in the main text These are supported by end of chapter questions to check understanding and encourage wider thinking around topics Online resources include solutions to questions in the book advanced material PowerPoint lecture slides and additional questions all available at www.cambridge.org/cognition

Pre-U Text STPM, 2010

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