# PART -A (PHYSICS)

1. In an electron microscope, the resolution that can be achieved is of the order of the wavelength of electrons used. To resolve a width of 7.5 × 10 12 m, the minimum electron energy required is close to:

(A) 500 keV

(B) 100 keV

(C) 1 keV

(D) 25 keV

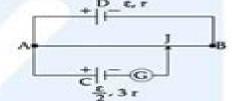
2. To mop-clean a floor, a cleaning machine presses a circular mop of radius R vertically down with a total force F and rotates it with a constant angular speed about its axis. If the force F is distributed uniformly over the mop and the floor is µ, the torque, applied by the machine on the mop is:

(A) uFR/3

(B) µFR/6

(C) uFR/2

- (D)  $\frac{2}{3}\mu FR$
- 3. A potentiometer wire AB having length L and resistance 12 r is joined to a cell D of emf s and internal resistance r. A cell C having emf s/2 and internal resistance 3r is connected. The length AJ at which the galvanometer as shown in figure shows no deflection is:



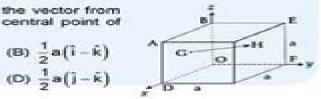
- (B)  $\frac{11}{24}$ L (D)  $\frac{5}{12}$ L
- A TV transmission tower has a height of 140 m and the height of the receiving antenna is 40 m. What is the maximum distance upto which signals can be broadcasted from this tower in LOS (Line of Sight) mode? (Given : radius of earth = 6.4 × 106 m).

(A) 65 km (C) 80 km (B) 48 km (ID) 40 km

5. In the cube of side 'a' shown in the figure, the vector from the central point of the face ABOD to the central point of the face BEFO will be:

(A)  $\frac{1}{2}a(\hat{k}-\hat{l})$ 

(C)  $\frac{1}{2}a(j-1)$ 



A uniform metallic wire has a resistance of 18  $\Omega$  and is bent into an equilateral triangle. 6. Then, the resistance between any two vertices of the triangle is:

(A) 4 Q

(B) 8 (2)

(C) 12 Ω

(D) 2 \O

# **January 2014 Phwjec Question Paper**

**Russell Deacon** 

### **January 2014 Phwjec Question Paper:**

2012 GCSE English results Great Britain: Parliament: House of Commons: Education Committee, 2013-06-11 The 2012 GCSE English results prompted significant controversy which ultimately resulted in an application for judicial review This report sets out the background to these events and identifies lessons to be learned The problems with GCSE English can be traced back to the 2007 09 development phase of the qualification in particular the turbulence which resulted from the shift away from a mostly linear to a modular system combined with a high proportion of controlled assessment and generous marking tolerances Exam board experts raised concerns at the time but these were not acted upon by the regulator the then interim Ofgual Further difficulties arose because of pressures from the school accountability system The problems experienced with GCSE English in 2012 highlighted serious weaknesses in the moderation of speaking and listening with consequences for grade awarding The current status of Ofgual as an independent regulator accountable to Parliament is the right one However the Coalition Government is bringing in wholesale changes to GCSEs and A levels to a tight timetable and at the same time Ofqual must have systems in place The Committee is also concerned that there is a rush towards separate exam systems for England Wales and Northern Ireland without careful reflection on what might be lost or consensus that this is the right thing to do My Revision Notes: WJEC GCSE Science Adrian Schmit, Jeremy Pollard, 2012-06-22 Written by experienced authors to cover the new WJEC GCSE Science specification in full this title provides all the ingredients for successful exam revision relevant and accesible notes examiner advice and questions and answers on each key topic This revision guide complements the WJEC GCSE Science students textbook This revision guide complements the WJEC GCSE Science students textbook Teaching Sociology Successfully Andrew Jones, 2017-07-06 Teaching Sociology Successfully is a comprehensive guide to teaching learning and delivering sociology not only with success but with confidence Carefully combing insightful anecdotes and practical ideas with key theoretical concepts on planning learning styles and assessment this book is an essential tool for both new and experienced teachers of sociology Each chapter focuses on a particular aspect of the teaching and learning process from preparing to teach the subject for the first time to measuring student progress over time in an approachable yet rigorous way This practical guide will help you to improve your knowledge of specifications and syllabuses at GCSE and AS A Level provide the best pedagogic approaches for teaching sociology think about learning styles skills and capacities in relation to teaching sociology gain practical ideas and activities for improving student s argumentation evaluation and essay writing skills apply strategies for teaching abstract sociological theories and concepts make the teaching of research methods engaging and interesting deal with practical issues such as planning and assessing learning encourage students independent learning and revision connect ICT social networking websites and the mass media to further students sociological knowledge tackle the thorny issues of politics and controversial topics Drawing on the author s own experiences Teaching Sociology Successfully helps readers to identify unpack and negotiate challenges common to

those teaching sociology Complete with a variety of pedagogical resources it provides tasks and further reading to support CPD and reflective practice This book will be an invaluable tool for students on PGCE social science training courses as well as School Direct candidates and undergraduates studying BEds in similar fields **Government and Politics of Wales** Russell Deacon, 2017-12-20 A new analysis of mind body unity based on the philosophy of Spinoza An Introduction to the Study of Education David Matheson, 2014-09-15 This fully updated fourth edition of An Introduction to the Study of Education provides a comprehensive and reflective introduction to the study of education inviting students to question what education is who it is for and what purpose it serves Taking the reader from the early years through to lifelong learning it examines all forms of education and learning This new edition includes ten completely new chapters and a step by step guide to essay writing There is also a companion website to accompany the book featuring additional chapters which can be visited at www routledge com cw matheson This fully updated fourth edition provides a full exploration of the historical sociological philosophical and psychological roots of education a clear focus on the individual levels of education preschool compulsory post compulsory and lifelong learning the latest debates within special educational needs an in depth examination of learning styles insights into the historical development of education and the role of and background to research in education a focus on current educational practice and diversity across the United Kingdom and Ireland Written in a clear and accessible style this is the essential core text for all beginning students on undergraduate and postgraduate courses in Education Studies and all those interested in education today where it came from and where it is going

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