

board question paper: October 2014

Chemistry

Time: 3 Hours

Total Marks: 70

Note:

- i. All questions are compulsory.
- ii. Answers to both sections should be written in the same answer book.
- iii. Figure to the right hand side indicate full marks.
- iv. Draw neat, labelled diagrams and write balanced equations wherever necessary.
- v. Use of logarithmic table is allowed.
- vi. Answer to every new question must be started on a new page.

SECTION – I

Q.1. Select and write the most appropriate answer from the given alternatives for each sub-question:

[7]

- i. The Arrhenius equation is _____.
 (A) $K = Ae^{\frac{RT}{E_a}}$ (B) $A = Ke^{\frac{-E_a}{RT}}$
 (C) $K = A \cdot e^{\frac{-RT}{E_a}}$ (D) $A = K \cdot e^{\frac{E_a}{RT}}$
- ii. If the enthalpy of vaporisation of water at 100 °C is 186.5 J mol⁻¹, the entropy of vaporization will be _____.
 (A) 4.0 J K⁻¹ mol⁻¹ (B) 3.0 J K⁻¹ mol⁻¹
 (C) 1.5 J K⁻¹ mol⁻¹ (D) 0.5 J K⁻¹ mol⁻¹
- iii. The atomicity of sulphur in orthorhombic sulphur is _____.
 (A) 8 (B) 6
 (C) 4 (D) 2
- iv. The major binding force in diamond is _____.
 (A) covalent bond (B) ionic bond
 (C) metallic bond (D) co-ordinate covalent bond
- v. The boiling point of water at high altitude is low, because _____.
 (A) the temperature is low
 (B) the atmospheric pressure is low
 (C) the temperature is high
 (D) the atmospheric pressure is high
- vi. The molar conductivity of cation and anion of salt BA are 180 and 220 mhos respectively. The molar conductivity of salt BA at infinite dilution is _____.
 (A) 90 mhos cm² mol⁻¹ (B) 110 mhos cm² mol⁻¹
 (C) 200 mhos cm² mol⁻¹ (D) 400 mhos cm² mol⁻¹
- vii. What is the process in which concentrated ore is reduced to the corresponding metal by heating at high temperature with a reducing agent?
 (A) Polling (B) Pyrometallurgy
 (C) Hydrometallurgy (D) Calcination

14 October Paper Chemistry Hsc

Howard R. Huff, Erhard Sirtl



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Redirecting Science: Niels Bohr, Philanthropy, and the Rise of Nuclear Physics Finn Aaserud, 2019-08-17 How and why do complex scientific disciplines such as physics change emphasis from one sub discipline to another Do such transitions stem entirely from developments within the discipline itself or also from external factors This book addresses these questions by examining the transition from atomic to nuclear physics theoretically and experimentally at Niels Bohr's Institute for Theoretical Physics in Copenhagen in the 1930s On the basis of extensive archival research Finn Aaserud shows that the Copenhagen spirit the playful research atmosphere under Bohr's fatherly guidance that permeated the Institute thrived because of extra scientific circumstances that Bohr exploited to the fullest such as the need to help Jewish physicists out of Hitler's Germany and the changing funding policies of private foundations notably those of the Rockefeller Foundation which made it opportune to introduce research in experimental biology at the Institute A clear carefully developed and substantially convincing argument Aaserud gives a detailed and impressively documented account of the direction of Bohr's scientific interests Aaserud is to be congratulated for his original clear indeed didactic work of scholarship and enlightenment Paul Forman *Physics Today* A professional historian's study of the happenings at the Niels Bohr Institute in the decisive years 1930 to 1940 In particular the support of the Institute by Danish and other foundations mainly the Rockefeller Foundation are treated in great detail revealing many interesting aspects of these relationships The detailed accounts of Bohr's negotiations are a testimony to Bohr's uncanny ability to get what he wanted from the various foundations Aaserud's book is an invaluable source of information showing that Bohr was not only an inspiring physicist and philosopher but also a cunning negotiator who knew how to make use of his great reputation for the benefit of science Victor F Weisskopf *Science* Aaserud elucidates Bohr's skills not only as mentor and guiding hand behind the Copenhagen spirit but also as financial negotiator Neil Wasserman *Isis A Journal of the History of Science Society* This book teaches us that running such a truly elite institution required entrepreneurial skills as well as scientific genius Bohr had an abundance of both Jeremy Bernstein *Nature* *Redirecting Science* is the history of Bohr's institute during the 1930s when it experienced a drastic change in its research priorities from a laissez faire mode of work and lack of clearly defined research programme to a concerted research effort in nuclear physics and experimental biology Aaserud gives a highly interesting account of the interaction between physics and biology Aaserud's carefully documented work is an excellent example of how institutional history may transcend social and institutional limitations and integrate also conceptual history of science Helge Kragh *Centaurus* By showing that a new research programme at one of the most important scientific institutes in the world was triggered and pushed forward by social and financial considerations this book delivers yet another blow to the tired old idea that scientific knowledge is driven by its own internal inexorable logic It also throws valuable light on Bohr's activities and strategies as a fundraiser and institution builder John Krige *The British Journal for the History of Science* *Chemistry and Industry*, 1985

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1 a fungi called absorbs nutrients from the living cells of a host organism need a hint a saprophytic fungi b parasitic fungi c sporangium d septa 2 asexual

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web spore producing fungal reproductive structure haustorium specialized hypha of parasitic fungi that grows into a host s tissues and absorbs its nutrients hypha threadlike filament that makes up the basic structural unit of a multicellular fungus mycelium complex netlike mass made up of branching hyphae septum