

SECTION - I

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

[7]

- (i) The Arrhenius equation is _____.
- (a) $k = A e^{\frac{RT}{E_a}}$ (b) $A = k e^{\frac{-E_a}{RT}}$
- (c) $k = A e^{\frac{-RT}{E_a}}$ (d) $k = A e^{\frac{-E_a}{RT}}$
- (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. (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

Q. 2. Answer any THREE of the following :

[9]

- (i) Describe anomalous behaviour of oxygen as compared with other elements of group 16 with reference to –
- (a) Magnetic property (b) Oxidation state (c) Hydrides
- (ii) What is the value of $\Delta S_{\text{surr.}}$ for the following reaction at 298 K –
- $$6\text{CO}_{2(g)} + 6\text{H}_2\text{O}_{(l)} \longrightarrow \text{C}_6\text{H}_{12}\text{O}_{6(s)} + 6\text{O}_{2(g)}$$
- Given that : $\Delta G^\circ = 2879 \text{ kJ mol}^{-1}$, $\Delta S = -210 \text{ JK}^{-1} \text{ mol}^{-1}$.
- (iii) Sucrose decomposes in acid solution to give glucose and fructose according to the first order rate law. The half life of the reaction is 3 hours. Calculate fraction of sucrose which will remain after 8 hours.
- (iv) A solution containing 0.73 g of camphor (molar mass 152 g . mol⁻¹) in 36.8 g of acetone (boiling point 56.3°C) boils at 56.55°C. A solution of 0.564 g of unknown compound in the same weight of acetone boils at 56.46°C. Calculate the molar mass of the unknown compound.

Hsc 2014 October Question Paper

Tani Barlow



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Culture and Economy in the Age of Social Media Christian Fuchs, 2015-01-09 Understanding social media requires us to engage with the individual and collective meanings that diverse stakeholders and participants give to platforms. It also requires us to analyse how social media companies try to make profits, how and which labour creates this profit, who creates social media ideologies and the conditions under which such ideologies emerge. In short, understanding social media means coming to grips with the relationship between culture and the economy. In this thorough study, Christian Fuchs, one of the leading analysts of the Internet and social media, delves deeply into the subject by applying the approach of cultural materialism to social media, offering readers theoretical concepts, contemporary examples and proposed opportunities for political intervention. *Culture and Economy in the Age of Social Media* is the ultimate resource for anyone who wants to understand culture and the economy in an era populated by social media platforms such as Twitter, Facebook and Google in the West and Weibo, Renren and Baidu in the East. Updating the analysis of thinkers such as Raymond Williams, Karl Marx, Ferruccio Rossi Landi and Dallas W. Smythe for the 21st century, Fuchs presents a version of Marxist cultural theory and cultural materialism that allows us to critically understand social media's influence on culture and the economy.

Australian Music and Modernism, 1960-1975 Michael Hooper, 2019-10-31 Drawing on newly available archival material, key works and correspondence of the era, *Australian Music and Modernism* defines Australian Music as an idea that emerged through the lens of the modernist discourse of the 1960s and 70s. At the same time that the new Australian Music was distinctive of the nation, it was also thoroughly connected to practices from Europe and shaped by a new engagement with the music of Southeast Asia. This book examines the intersection of nationalism and modernism at this formative time. During the early stages of Australian Music, there was disagreement about what the idea itself ought to represent and indeed whether the idea ought to apply at all. Michael Hooper considers various perspectives offered by such composers as Peter Sculthorpe, Richard Meale and Nigel Butterley and analyzes some of the era's significant works to articulate a complex understanding of Australian Music at its inception.

[The Routledge Companion to Vsevolod Meyerhold](#) Jonathan Pitches, Stefan Aquilina, 2022-11-09 *The Routledge Companion to Vsevolod Meyerhold* brings together a wealth of scholarship on one of the foremost innovators in European theatre. It presents a detailed picture of the Russian director's work from when it first emerged on the modern stage to its multifarious present-day manifestations. By combining an historical focus with the latest contemporary research from an international range of perspectives and authors, this collection marks an important moment in Meyerhold studies as well as offering a new assessment of his relation to today's theatre-making. Its dynamic blend of research is presented in five sections: *Histories* enlarges on more conventional subjects like the grotesque and Biomechanics to overlooked topics such as Meyerhold's failed projects and his work in film; *Collaborations and Connections* extends understandings of Meyerhold's well-known collaborative capacities to consider new cultural influences.

and lesser known working relationships Sources engages with hitherto untapped material in Meyerhold's oeuvre by reproducing and contextualising previously untranslated primary sources on his work Practitioner Voices offer lively on the ground testimony of the contemporary impact of Meyerhold's practice Meyerhold in New Contexts maps the routes of his practice across continents and examines ways in which his work is being applied in a number of contemporary scenarios such as motion capture computer based 3D visualisations and the new normal of digital pedagogy This is a key resource for students and scholars of European Theatre acting theory and actor training as well as for those more broadly interested in the socio political impact of theatre

In the Event of Women Tani Barlow, 2021-09-20 In the Event of Women outlines the stakes of what Tani Barlow calls the event of women Focusing on the era of the late nineteenth century through the mid twentieth century's Cultural Revolution Barlow shows that an event is a politically inspired action to install a newly discovered truth in this case the mammal origins of human social evolution Highbrow and lowbrow social theory circulating in Chinese urban print media placed humanity's origin story in relation to commercial capital's modern advertising industry and the conclusion that women's liberation involved selling buying and advertising industrial commodities The political struggle over how the truth of women in China would be performed and understood Barlow shows means in part that an event of women was likely global because its truth is vested in biology and physiology In so doing she reveals the ways in which historical universals are effected in places where truth claims are not usually sought This book reconsiders Alain Badiou's concept of the event particularly the question of whose political moment marks newly discovered truths

The Great Class War 1914-1918 Jacques R. Pauwels, 2016-04-06 Historian Jacques Pauwels applies a critical revisionist lens to the First World War offering readers a fresh interpretation that challenges mainstream thinking As Pauwels sees it war offered benefits to everyone across class and national borders For European statesmen a large scale war could give their countries new colonial territories important to growing capitalist economies For the wealthy and ruling classes war served as an antidote to social revolution encouraging workers to exchange socialism's focus on international solidarity for nationalism's intense militarism And for the working classes themselves war provided an outlet for years of systemic militarization quite simply they were hardwired to pick up arms and to do so eagerly To Pauwels the assassination of Archduke Franz Ferdinand in June 1914 traditionally upheld by historians as the spark that lit the powder keg was not a sufficient cause for war but rather a pretext seized upon by European powers to unleash the kind of war they had desired But what Europe's elite did not expect or predict was some of the war's outcomes social revolution and Communist Party rule in Russia plus a wave of political and social democratic reforms in Western Europe that would have far reaching consequences Reflecting his broad research in the voluminous recent literature about the First World War by historians in the leading countries involved in the conflict Jacques Pauwels has produced an account that challenges readers to rethink their understanding of this key event of twentieth century world history

Darby's Comprehensive Review of Dental Hygiene - E-Book Christine M Blue, 2015-12-21

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Crook, Mike Esbester, 2016-04-26 For more than 200 years everyday life in Britain has been beset by a variety of dangers from the mundane to the life threatening Governing Risks in Modern Britain focuses on the steps taken to manage these dangers and to prevent accidents since approximately 1800 It brings together cutting edge research to help us understand the multiple and contested ways in which dangers have been governed It demonstrates that the category of risk broadly defined provides a new means of historicising some key developments in British society Chapters explore road safety and policing environmental and technological dangers and occupational health and safety The book thus brings together practices and ideas previously treated in isolation situating them in a common context of risk related debates dilemmas and difficulties Doing so it argues advances our understanding of how modern British society has been governed and helps to set our risk obsessed present in some much needed historical perspective

Science John Michels (Journalist), 2008 **10**

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