SAMPLE PAPER TEST 02 FOR BOARD EXAM 2023

SUBJECT: SCIENCE CLASS: X

MAX. MARKS: 80 DURATION: 3 HRS

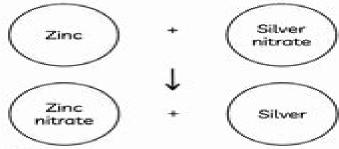
General Instruction:

- 1. This Question Paper has 5 Sections A-E.
- 2. Section A has 20 MCQs carrying 1 mark each.
- Section B has 5 questions carrying 02 marks each.
- Section C has 6 questions carrying 03 marks each.
- 5. Section D has 4 questions carrying 05 marks each.
- 6. Section E has 3 case based integrated units of assessment (04 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
- 7. All Questions are compulsory. However, an internal choice in 2 Qs of 5 marks, 2 Qs of 3 marks and 2 Questions of 2 marks has been provided. An internal choice has been provided in the 2marks questions of Section E
- 8. Draw neat figures wherever required. Take $\pi = 22/7$ wherever required if not stated.

SECTION - A

Questions 1 to 20 carry 1 mark each.

1. Which of the following a balanced equation for the following chemical reaction:



- (a) $Zn + Ag(NO_3)_2 \rightarrow Zn(NO_3)_2 + 2Ag$
- (b) $2Zn + 2AgNO_3 \rightarrow Zn(NO_3)_2 + 2Ag$
- (c) $Zn + 2AgNO_3 \rightarrow Zn(NO_3)_2 + 2Ag$
- (d) $Zn + AgNO_3 \rightarrow Zn(NO_3)_2 + Ag$
- 2. Which of the following will turn phenolphthalein pink?
 - (a) NaOH(aq) (b) HCl(aq) (c) CH3COOH(aq) (d) H2O
- 3. While studying the saponification reaction, what do you observe when you mix an equal amount of colourless vegetable oil and 20% aqueous solution of NaOH in a beaker?
 - (a) The colour of the mixture has become dark brown.
 - (b) A brisk effervescence is taking place in the beaker.
 - (c) The outer surface of the beaker has become hot.
 - (d) The outer surface of the beaker has become cold.
- 4. Why do we store silver chloride in dark-coloured bottles?
 - (a) To prevent precipitation of silver chloride
 - (b) To prevent decomposition of silver chloride
 - (c) To promote decomposition of silver chloride
 - (d) All of these

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Technology Carlos Guedes Soares, Y. Garbatov, S. Sutulo, T.A. Santos, 2012-11-26 Maritime Engineering and Technology includes the papers from the 1st International Conference on Maritime Technology and Engineering MARTECH 2011 Lisbon Portugal 10 12 May 2011 MARTECH 2011 was held to commemorate 100 years of the Instituto Superior Tico IST in Lisbon and the contributions in the present volume reflect the **Advanced Web and Network Technologies, and Applications** Yoshiharu Ishikawa, Jing He, Guandong Xu, Yong Shi, Guangyan Huang, Chaoyi Pang, Oing Zhang, Guoren Wang, 2008-11-05 This book constitutes the thoroughly refereed joint post workshop proceedings of three international workshops held in conjunction with the 10th Asia Pacific Web Conference APWeb 2008 in Shenyang China in April 2008 see LNCS 4976 The 15 revised full papers presented together with 4 invited papers and 4 keynote lectures were carefully reviewed and selected from numerous submissions Topics addressed by the workshops are business intelligence and data mining BIDM 2008 health data management IWHDM 2008 and data engineering and Web technology research DeWeb 2008 The papers focus on issues such as Web searching Web services database data mining bioinformatics and business intelligence Encyclopedia of Quantitative Risk Analysis and Assessment, 2008-09-02 Leading the way in this field the Encyclopedia of Quantitative Risk Analysis and Assessment is the first publication to offer a modern comprehensive and in depth resource to the huge variety of disciplines involved A truly international work its coverage ranges across risk issues pertinent to life scientists engineers policy makers healthcare professionals the finance industry the military and practising statisticians Drawing on the expertise of world renowned authors and editors in this field this title provides up to date material on drug safety investment theory public policy applications transportation safety public perception of risk epidemiological risk national defence and security critical infrastructure and program management This major publication is easily accessible for all those involved in the field of risk assessment and analysis For ease of use it is available in print and online **Advances in Heavy Tailed Risk** Modeling Gareth W. Peters, Pavel V. Shevchenko, 2015-05-21 ADVANCES IN HEAVY TAILED RISK MODELING A cutting edge guide for the theories applications and statistical methodologies essential to heavy tailed risk modeling Focusing on the quantitative aspects of heavy tailed loss processes in operational risk and relevant insurance analytics Advances in Heavy Tailed Risk Modeling A Handbook of Operational Risk presents comprehensive coverage of the latest research on the theories and applications in risk measurement and modeling techniques Featuring a unique balance of mathematical and statistical perspectives the handbook begins by introducing the motivation for heavy tailed risk processes A companion with Fundamental Aspects of Operational Risk and Insurance Analytics A Handbook of Operational Risk the handbook provides a complete framework for all aspects of operational risk management and includes Clear coverage on advanced topics such as splice loss models extreme value theory heavy tailed closed form loss distribution approach models flexible heavy tailed risk models risk measures and higher order asymptotic approximations of risk measures for capital estimation An exploration of the characterization and estimation of risk and insurance modeling which includes sub exponential models alpha stable

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Processing, and Systems Qilian Liang, Wei Wang, Xin Liu, Zhenyu Na, Baoju Zhang, 2023-05-11 This book brings together papers presented at the 2022 International Conference on Communications Signal Processing and Systems online July 23 24 2022 which provides a venue to disseminate the latest developments and to discuss the interactions and links between these multidisciplinary fields Spanning topics ranging from communications signal processing and systems this book is aimed at undergraduate and graduate students in Electrical Engineering Computer Science and Mathematics researchers and engineers from academia and industry as well as government employees such as NSF DOD and DOE Road Research Technical Paper, 1968

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