

SAMPLE PAPER - 1

Time : 3½ Hrs.

MM : 100

GENERAL INSTRUCTIONS

- I. Question paper comprises of three sections, A, B and C you are to attempt all the three sections.
- II. All questions are compulsory.
- III. All questions of section A, section B and section C are to be attempted separately.
- IV. Question numbers 1 to 3 in section A are one mark each, to be answered in one word or one sentence.
- V. Question numbers 4 to 7 are two marks each, to be answered in about 30 words.
- VI. Question numbers 8 to 19 are three marks each, to be answered in about 50 words.
- VII. Question numbers 20 to 24 are five marks each, to be answered in about 70 words.
- VIII. Question numbers 25 to 42 in section B are MCQs based on practical skills. Each question is a one mark question.
- IX. Question numbers 43 and 44 in section C are OTBA based questions. Each question is of five marks. The open text material for these questions has been provided on pages (A-1-A-8).

SECTION - A

1. What did Rutherford's alpha-particle scattering experiment prove?
2. What do you mean by bilaterally symmetrical body?
3. What do you understand by the term upthrust?
4. What are the roles of algal and fungal partners in lichens?
5. Name any two ways through which infectious diseases spread.
6. What is sound and how is it produced?
7. Certain force acting on a 20 kg mass changes its velocity from 5 ms^{-1} to 2 ms^{-1} . Calculate the work done by the force.
8. (a) An element 'A' has mass number 24 and contain 12 neutrons. What is the valency of 'A'?
- (b) The atomic number of uranium is 92. How many electrons are there in the neutral atom? How many electrons and protons are there in U^{+2} ion?
9. How many grams of potassium will have the same number of atoms as 6 grams of sodium? (Atomic mass of Na = 23; K = 39)
10. (a) The mass of one atom of an element 'A' is $2.65 \times 10^{-23} \text{g}$. Calculate its atomic mass and name the element.
- (b) How many molecules of water of crystallisation are present in 24.95 mg of hydrated copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)?
11. In case of any infection our body temperature rises or we suffer from fever. Why?
12. Why are bryophytes called 'amphibians of the plant world'?
13. A, B and C are living organisms. Identify the group to which they belong to on the basis of the following features :
 - (a) A is unicellular, microscopic, eukaryotic, and shows locomotion with the help of pseudopodia.
 - (b) B is unicellular, microscopic, prokaryotic, and has cell wall.
 - (c) C is multicellular, filamentous, eukaryotic, autotrophic and aquatic.
14. Does sound follow the same laws of reflection as light does? Explain?
15. Why does an object float or sink when placed on the surface of water?

Sample Paper For Class 9 Sa2 Science

Xiaolong Qi



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Safety Science Abstracts Journal, 1980 *Proceedings of International Conference on Systems Science and Engineering (ICSSE '88)* : 25-28 July 1988, Beijing, China Weimin Cheng, 1989 Some 170 papers of the July 1988 meeting survey advances in the main areas of systems science and engineering Areas covered include theoretical and methodical developments applications to population telecommunication transportation and water resource systems optimization multicriteria decision making game theory decision analysis management information and decision support systems Printed in China on acidic paper directly from authors typescripts many of which strain legibility Four papers are printed after the author index while not appearing in the table of contents Sloppy production for a 200 book No subject index Annotation copyrighted by Book News Inc Portland OR *Stochastic Spatial Processes* Petre Tautu, 2006-11-14 Proceedings of a Conference held in Heidelberg September 10-14 1984 **Stochastic Spatial Processes** Petre Tăutu, 1986 **Fundamental Aspects of Quantum Theory** Vittorio Gorini, Alberto Frigerio, 2012-12-06 This book collects the contributions to the NATO Advanced Research Workshop on Fundamental Aspects of Quantum Theory held at the Centro di Cultura Scientifica Alessandro Volta Villa Olma Carro Italy 2-7 September 1985 The meeting was dedicated to the memory of the late professor Piero Caldirola a prominent member of the Physics Department of the University of Milan and a native of Como The aim of the workshop has been to present several recent experimental results and theoretical developments concerning the various facets of quantum physics The breadth of scope of the meeting was in accordance with Professor Caldirola's vast scientific interests and fostered communication among experimental physicists theoretical and mathematical physicists and mathematicians working in different but related fields Indeed lecturers endeavoured to make their contributions understandable to people acquainted with the problem but not necessarily familiar with the technical details and these efforts were successful as indicated by the frequent private discussions which took place among participants belonging to different breeds and brands The meeting was made up of six one-day sessions each of them addressing to a specific aspect of quantum theory 1 General Problems and Crucial Experiments with emphasis on single particle interference effects of neutrons and of photons and on the measurement problem 2 Quantization and Stochastic Processes including stochastic quantization of gauge fields stochastic description of supersymmetric fields quantum stochastic calculus and stochastic mechanics **IUTAM Symposium on Theoretical, Computational and Modelling Aspects of Inelastic Media** B. Daya Reddy, 2008-09-24 This work comprises papers based on some of the talks presented at the IUTAM Symposium of the same name held in Cape Town January 14-18 2008 This volume treats cutting edge issues in modelling the behaviour of various classes of inelastic media and associated algorithms for carrying out computational simulations A key feature of the contributions are works directed at modelling behaviour at the meso and micro scales and at bridging the micro-macro scales *EUDISED R & D Bulletin* Council of Europe, 1979 Contains research project reports arranged by subject with descriptors from the EUDISED Multilingual

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