

INSTRUMENTATION QUESTIONS & ANSWERS

INTRODUCTION:

It is the branch of engineering which deals with the measurement, monitoring, display etc. of the several of energy exchanges which take place during process operations. "In short instrumentation is the study of instrument."

INSTRUMENT:

Instrument is a device, which is used to measure, monitor, display etc. of a process variable.

1. What is the process Variable?

The process Variable is:

- Flow.
- Pressure.
- Temperature.
- Level.
- Quality i.e. % O_2 , CO_2 , pH etc.

2. Define all the process Variable and state their unit of measurement. ?

Flow: Defined as volume per unit of time at specified temperature and pressure Conditions, is generally measured by positive-displacement or rate meters.

Units: kg / hr, liter / min, gallon / min, m^3 / hr, Nm^3 / hr. (gases)

Pressure: Force acting per unit Area. $P = F/A$.

Units : bar, Pascal, kg / cm^2 , lb / in^2 .

Level: Different between two heights.

Units: Meters, mm, cm, percentage.

Temperature: It is the degree of hotness or coldness of a body.

Units : Degree Centigrade, Degree Fahrenheit, Degree Kelvin, Degree Rankine.

Quality: It deals with analysis. (PH, % CO_2 , % O_2 , Conductivity, Viscosity)

3. What are the primary elements used for flow measurement?

The primary elements used for flow measurement are:

- Orifice Plate.
- Venturi tube.
- Pitot tube.
- Annubars.
- Flow Nozzle.
- Weir & Flumes.

4. What are the different types of orifice plates and state their uses?

The different types of orifice plates are:

- Concentric.
- Segmental.
- Eccentric.
- Quadrant Edge.

Concentric:

The concentric orifice plate is used for ideal liquid as well as gases and steam service. This orifice plate beta ratio falls between of 0.15 to 0.75 for liquids and 0.20 to 0.70 for gases and steam. Best results

Instrumentation Questions And Answers

Gupta B.R.



Instrumentation Questions And Answers:

Standard Instrumentation Questions and Answers: Measuring systems Stephen Michael Elonka, Alonzo Ritter Parsons, 1962 **Standard Instrumentation Questions and Answers: Control systems** Stephen Michael Elonka, Alonzo Ritter Parsons, 1962 *Standard Instrumentation Questions and Answers* Stephen Michael Elonka, Alonzo Ritter Parsons, 1962 *ETO Oral Questions and Answers: 4th Edition* Steve Richards, 2022-06-22 NEW 4th edition For those about to sit their formal oral session with the MCA for the Electro Technical Officer Certificate of Competence CoC A set of questions and answers that will allow you to practice and exercise your knowledge prior to your interview Written by the former ETO senior lecturer from the Warsash Maritime Academy Additional questions and answers input from recent successful students A must for all budding ETO s Practice reading the questions writing and speaking your answer then look up the preferred answer Repeat many times until your interview **Standard Instrumentation Questions and Answers** Stephen Michael Elonka, Alonzo Ritter Parsons, 1962 Standard Instrumentation Questions and Answers for Production-processes Control Stephen Michael Elonka, Alonzo Ritter Parsons (joint author.), 1979 **Electrical and Electronic Measurement and Instrumentation, 4th Edition** Rajput R.K., 2015 This textbook has been written especially for the courses of B E B Tech for all Technical Universities of India It contains twenty two chapters in all Besides this an exhaustive set of Short Answer Question and a section on GATE and UPSC Examinations Questions with Answers Solutions have been added at the end to make this treatise comprehensive and complete book on this subject Electronic Measurement and Instrumentation Syed Akhtar Imam, Vibhav Kumar Sachan, 2023-01-10 Electronic Measurement Instrumentation caters to the needs of the undergraduate courses in the disciplines of Electronics Communication Engineering Electronics Instrumentation Engineering Electrical Electronics Engineering Instrumentation and Control Engineering and postgraduate students specializing in Electronics and Control Engineering It will also serve as reference material for working engineers *BIOMEDICAL INSTRUMENTATION AND MEASUREMENTS, Second Edition* ANANDA NATARAJAN, R., 2015-12-01 Designed as a text for the undergraduate students of instrumentation electrical electronics and biomedical engineering the second edition of the book covers the entire range of instruments and their measurement methods used in the medical field The functions of the biomedical instruments and measurement methods are presented keeping in mind those students who have minimum required knowledge of human physiology The purpose of this book is to review the principles of biomedical instrumentation and measurements employed in the hospital industry Primary emphasis is laid on the method rather than micro level mechanism This book serves two purposes One is to explain the mechanism and functional details of human body and the other is to explain how the biological signals of human body can be acquired and used in a successful manner New to the second edition The chapters of the book have been reorganized so that the students can understand the concepts in a systematic manner The chapter on Bioelectric Potentials and Transducers has been divided

into three new chapters on Transducers for Biomedical Applications Bioelectric Potential and Electrodes and some new sections are also included in these chapters A few sections have also been added to the chapter titled Electrical Safety of Medical Equipment and Patients Key features More than 180 illustrations throughout the book Short questions with answers at the end of each chapter Chapter end exercises to reinforce the understanding of the subject **BIOMEDICAL INSTRUMENTATION AND MEASUREMENTS** R. ANANDANATARAJAN,2011-08-08 Designed as a text for the undergraduate students of instrumentation electrical electronics and biomedical engineering it covers the entire range of instruments and their measurement methods used in the medical field The functions of the biomedical instruments and measurement methods are presented keeping in mind those students who have minimum required knowledge of human physiology The purpose of this book is to review the principles of biomedical instrumentation and measurements employed in the hospital industry Primary emphasis is laid on the method rather than micro level mechanism This book serves two purposes One is to explain the mechanism and functional details of human body and the other is to explain how the biological signals of human body can be acquired and used in a successful manner KEY FEATURES More than 180 illustrations throughout the book Short questions with answers at the end of each chapter Chapter end exercises to reinforce the understanding of the subject *NEC Q and A* Noel Williams,Jeffrey S. Sargent,2007 Beginners will find answers to practical on the job problems and experts will be able to explore the reasons behind NEC rules and the additional issues related to each question in this examination of frequently and not so frequently asked questions Based on questions posed to and answered by NFPA s Advisory Services engineers NEC Q A Questions and Answers on the National Electrical Code includes hundreds of NEC specific questions along with references to NEC Articles and Sections **Electronics and Instrumentation** Gupta B.R.,2008 Electronic Tubes Semiconductor Devices Diode Circuits Amplifier Circuits Oscillator Circuits Thyristor Circuits Ic And Operational Amplifiers Logic Circuits And Number Systems Electrical Instruments Electronic Instruments Transducers Appendices A Obje *Instrumentation for Civil Engineering Applications* Ashim Kanti Dey, Manita Das,2025-06-01 Technical questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry A Handbook of Examinations in Music Containing 600 Questions, with Answers, in Theory, Harmony, Counterpoint, Form,

Fugue, Acoustics, Musical History, Organ Construction, and Choir Training, Together with Miscellaneous Papers as Set by Various Examining Bodies Ernest Alfred Dicks, 1904 *Standard Instrumentation Questions and Answers* Stephen M.

Elonka, 1962 Instrumentation Systems Tasuku Senbon, Futoshi Hanabuchi, 2013-11-11 Instrumentation technology is vitally important today since it supports the automation of a wide range of manufacturing factories the chemical industry and electrical power generation facilities Engineers who are active in these and other fields need the technical information and support provided by this comprehensive text Modern instrumentation technology is a constantly changing kaleidoscope of technological progress that is keeping pace with the entire field of microelectronics This is necessary to keep up with the progress evident in the industries that it supports As a result the traditional technology of industrial instruments has evolved into one of comprehensive instrumentation systems for an entire factory or plant This state of the art book is a handy single source reference for information required by engineers in the instrumentation business **Technical questions and**

answers for job interview Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center, 2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 100 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **Speech and Voice Science Workbook, Fourth Edition** Alison Behrman, Donald Finan, 2021-08-18 Speech and Voice Science Workbook Fourth Edition is an excellent companion to the textbook Speech and Voice Science Fourth Edition Divided into chapters that correspond with Speech and Voice Science this workbook is designed to provide a valuable tool for students to expand their understanding of this challenging course subject The workbook is intended to be used for student review self study and exam preparation to highlight areas of confusion to learn new concepts to connect ideas and to spark new questions and thoughtful discussions There are four different types of sections that appear throughout the workbook Foundational Knowledge questions Conceptual Integration questions and Clinical Application questions and TRY IT Activities Each section is tailored to hone different skill sets and enhance comprehension of the topics as follows Foundational Knowledge questions assess students basic knowledge gained from the textbook and highlight areas they need to review Conceptual Integration questions prompt students to delve deeper into the material and interrelate diverse information for understanding Clinical Application questions explore the usefulness of the material provided in the textbook to answer the common student query How does speech and voice science relate to the field of communication sciences and disorders TRY IT activities are designed to promote experiential learning and allow students

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