

(3 Hours)

Total Marks: 80

N.B.:

- 1) Question No. 1 is compulsory.
- 2) Attempt any three questions out of remaining five questions.
- 3) Assume suitable data if required.

**Q1 Solve any 4**

[Each 5 Marks]

- i) Explain with neat sketch the Finite Element methods.
- ii) What is Boundary Condition? Explain its type in brief?
- iii) Derive the shape function for One Dimensional Linear Element in Natural Coordinates.
- iv) What are the sources of Errors in FEA?
- v) Explain in brief Jacobian Matrix in FEA.
- vi) Write in brief about Consistent and Lumped mass matrix.

**Q2 a) Solve the following differential equation using Galerkin Method.**

[12]

$$\frac{d^2u}{dx^2} + 5 = 0 ; \quad \text{For } 0 < x < 1$$

Boundary Conditions are  $x = 0$  and  $u = 0$  and at  $x = 1$  :  $\frac{du}{dx} + u = 0$

Find  $u(0.2) = ?$

b) What is Convergence in FEA? Explain its types in brief.

[04]

c) Explain the Principle of minimum total potential with suitable example.

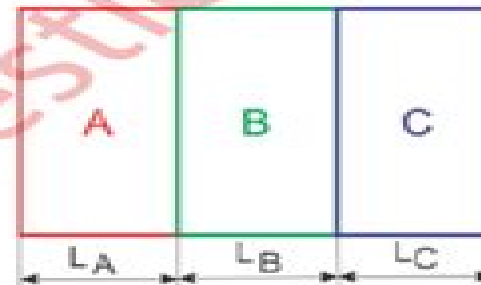
[04]

**Q3 a) Find the temperature at interfaces and heat transfer per unit area through the wall.**

[10]

$$T_L = 110^\circ\text{C},$$

$$h_L = 155 \text{ W/m}^2\text{C}$$



$$T_R = 35^\circ\text{C},$$

$$h_R = 25 \text{ W/m}^2\text{C},$$

$$L_A = 50 \text{ mm},$$

$$L_B = 50 \text{ mm},$$

$$L_C = 50 \text{ mm},$$

$$K_A = K_B = K_C = 45 \text{ W/m}^2\text{C}$$

Where  $K$ - denotes thermal conductivity,  $h$ - denotes heat transfer coefficient and  $T$ -temperature.  
 Where  $f$  is the weight of the bar. Consider one end of the bar to be fixed and other end free.

# Mechanical Sample Paper 3 Semester G Scheme

**Linda Pastero**



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**Proceedings of the 10th International Conference on Civil Engineering** Guangliang Feng, 2024-07-19 This open access book is a compilation of selected papers from the 10th International Conference on Civil Engineering ICCE2023 The work focuses on novel research findings on seismic technology of civil engineering structures High tech construction materials digitalization of civil engineering urban underground space development The contents make valuable contributions to academic researchers and engineers

**Carbonates** Linda Pastoro, 2019-03-21 A multidisciplinary collection of papers dealing with many aspects of the wide world of carbonates from a geological interpretation to their environmental exploitation and biological application keeping an eye on the fundamentals of crystal growth

**Engineering Abstracts**, 1911

**Tribology of Ceramics and Composites** Bikramjit Basu, Mitjan Kalin, 2011-10-07 This book helps students and practicing scientists alike understand that a comprehensive knowledge about the friction and wear properties of advanced materials is essential to further design and development of new materials With important introductory chapters on the fundamentals processing and applications of tribology the book then examines in detail the nature and properties of materials the friction and wear of structural ceramics bioceramics biocomposites and nanoceramics as well as lightweight composites and the friction and wear of ceramics in a cryogenic environment

**The Mechanical World**, 1907

**Energy, Waste and the Environment** R. Gieré, Peter Stille, 2004 This book provides incentives for further development of sustainable fuel cycles through a novel and interdisciplinary approach to an Earth science related topic The main focus is on geochemical concepts in immobilizing isolating or neutralizing waste derived from energy production and consumption The book also addresses the issue of using some types of energy derived waste as alternative raw materials Moreover it highlights research on how certain wastes can be used for energy production an increasingly important aspect of modern integrated waste management strategies The main objectives are to a identify the most serious environmental problems related to various types of power generation and associated waste accumulation b present strategies based on natural analogue materials for the immobilization of toxic and radioactive waste components through mineralogical barriers c discuss modern procedures for reuse of waste or certain waste components and d review the importance of geochemical modelling in describing and predicting the interaction between waste and the environment

**Applied Mechanics Reviews**, 1998

**Abstract Bulletin of the Institute of Paper Chemistry**, 1988

**Proceedings of Innovative Research and Industrial Dialogue 2016**, 2017-06-07 The Innovative Research and Industrial Dialogue 2016 IRID 16 organized by Advanced Manufacturing Centre AMC of the Faculty of Manufacturing Engineering of UTeM which is held in Main Campus Universiti Teknikal Malaysia Melaka on 20 December 2016 The open access e proceeding contains a compilation of 96 selected manuscripts from this Research event

**Engineering Record, Building Record and Sanitary Engineer**, 1894

**Chemical Engineer** Richard Kidder Meade, Harry McCormack, Laurance T. Clark, Alexander G. Sclater, Lloyd Lamborn, 1913

**High Technology: Research and**

*Applications* Anna Bogdan, Nikita V. Martyushev, 2014-09-24 Selected peer reviewed papers from the International Conference for Young Scientists High Technology Research and Applications 2014 HTRA 2014 March 26 28 2014 Tomsk Russia    **Manual Training Magazine** Charles Alpheus Bennett, William Thomas Bawden, 1928    **Energy Research Abstracts** ,1984    **Industrial Arts Magazine** ,1928    **Paper** ,1999    Scientific and Technical Aerospace Reports ,1995-05    **THERMEC 2021** Mihail Ionescu, Christof Sommitsch, Cecilia Poletti, Ernst Kozeschnik, Tara Chandra, 2021-01-05 International Conference on Processing Manufacturing of Advanced Materials Processing Fabrication Properties Applications Selected peer reviewed papers from the International Conference on Processing Manufacturing of Advanced Materials Processing Fabrication Properties Applications THERMEC 2021 May 10 14 2021 Vienna Austria    **Journal of Education** ,1881    Frontiers in Silk Science and Technology Nicola Maria Pugno, Antonella Motta, David Kaplan, 2021-07-27

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b pressure test procedures when you pressure test the bop system you must conduct a low pressure test and a high pressure test for each bop component excluding test rams and non sealing shear rams you must begin each test by conducting the low pressure test then transition to the high pressure test

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there are two elements to the pre job well site pressure test 1 wireline valve wlv pressure function test the tests should be performed on the test stump prior to rigging up and involves testing the pressure integrity of the wlv and the individual closed ram assemblies and the ram assembly functionality under pressure

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the purpose of bop stack function and pressure testing is to verify the hydraulic integrity of all the components of the bop stack at their rated working pressure in this article we will discuss the function test and pressure test procedure using cup tester

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all elmar wireline pressure control equipment is certified to be manufactured following api6a specifications to inhibitors for the pressure test the pressure test procedure for each assembly is stated on each assembly drawing equipment is stripped down rebuilt with new elastomers including bop ram outer seals and quick

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aug 12 2015 section 6 2 3 2 2 a advises what the minimum nominal i d for choke lines by pressure rating only for pressure rated systems 10k and above is a 3 in nominal i d choke line required for 4 inch and 7 inch through bore bop equipment no 4 inch up to but not including 7 1 16 inch bore equipment is not addressed in api 53 or api 16a 53

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pressure all bop equipment tests must include a low pressure test of 250 psi before proceeding to the full pressure test test pressure held and recorded for a minimum of five minutes after full pressure has been established represents a satisfactory pressure test ensure rotary bushings are locked if left in place where h2s is present all

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7 31 body pressure test procedure 1 locate the test plug and test cap on to their appropriate ends 2 bleed off all air within the assembly 3 ensure all external surfaces are dry 4 pressure test to test pressure for 3 minutes 5 reduce pressure to zero and repeat test for 15 minutes minimum no leakage acceptable 7 32 bop manifold test

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feb 14 2011 1 prior to supping the well or the first time that bop is installed on the well 2 after repairing or disconnecting of any pressure sealing elements of bop 3 as per mms you can use bop for 21 days 3 weeks before you need to test it

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apr 17 2023 bop test plan bop testing consists of several pressure tests with different valve line ups in order to test all the components of the bop system careful planning is required to ensure all components are tested and in a minimum number of pressure tests in order to ensure efficient execution of drilling operations

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dec 27 2021 bop testing procedures operators must periodically pressure test and function test bop stack components which decreases efficiency of drilling operations bop pressure tests are performed at regular intervals typically ranging from 14 to 30 days as set by local regulatory bodies

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a wireline bop must always be installed between the wellhead and wireline lubricators this bop is a piece of pressure control equipment that can close around the wire and seal off the well pressure below it this enables the pressure to be bleed off above it allowing work or repairs to be carried out on equipment above the bop without pulling

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jun 23 2021 the wireline intervention pressure control wipc system enables the wireline crew to focus on downhole operations without worrying about surface well integrity the system meets api spec 16b and nace mr0175 simplifying compliance with operator requirements

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this unit is a pressure test system intended for pressure testing 5 000 10 000 and 15 000 psi rated pressure control equipment to maximum working pressure before performing intervention work the unit is intended for use in atex zone 1 hazardous environments and complies to norsok regulations

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the scope of irp 13 is to define recommended practices for the selection implementation and maintenance of pressure control equipment for land based wireline operations in canada this includes all types of wireline i e slickline braided line and coated line

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