

# University of Pretoria

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#### Department of Mechanical and Aeronautical Engineering

#### Fluid Mechanics MTV310

Semester Test 2 - 2023

Examiners: Prof KJ Craig

Full marks: 50

Time: 90min

#### Instructions:

- Closed book, 1x A4 page, with anything written or printed on both sides, allowed.
- Answer all questions.

#### Question 1 (15)

Answer the following multiple choice questions by indicating the correct combination, e.g., a) and b); or c); or a) and b) and c), i.e., MORE THAN ONE option may be correct. All the correct options have to be indicated to receive the mark. No marks for partially correct answers. Only indicate the number and answer in your script, e.g., iii) a) and c). Do not show steps or state reasoning.

- The following dimensionless group(s) is(are) associated with free-surface waves [2]
  - a) Froude number
  - b) Reynolds number
  - c) Strouhal number
- Dynamic similarity implies that [2]
  - a) forces scale
  - b) the local velocities of the flow over the model and prototype are not the same
  - c) kinematic and geometric similarity holds
- iii) The Moody chart [2]
  - a) can only used for liquids, not for gases
  - b) relates the friction factor to the Reynolds and efficiency numbers
  - c) is a plot of the Colebrook formula
- iv) In the Buckingham-Pi method of dimensional analysis [2]
  - a) the repeating variables have to contain all the dimensions present in the problem
  - the number of Pi-groups are equal to the number of repeating variables
  - experimental correlations are determined between variables
- v) The dynamic viscosity of a fluid [2]
  - a) has units of Pascal.seconds
  - b) has dimensions of Mass/(Length\*Time)
  - c) has dimensions of Length^2/Time

(continued...)

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#### **Table of Contents Up Mtv310 Past Papers**

- 1. Understanding the eBook Up Mtv310 Past Papers
  - The Rise of Digital Reading Up Mtv310 Past Papers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Up Mtv310 Past Papers
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - $\circ\,$  Features to Look for in an Up Mtv310 Past Papers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Up Mtv310 Past Papers
  - Personalized Recommendations

- Up Mtv310 Past Papers User Reviews and Ratings
- Up Mtv310 Past Papers and Bestseller Lists
- 5. Accessing Up Mtv310 Past Papers Free and Paid eBooks
  - Up Mtv310 Past Papers Public Domain eBooks
  - Up Mtv310 Past Papers eBook Subscription Services
  - Up Mtv310 Past Papers Budget-Friendly Options
- 6. Navigating Up Mtv310 Past Papers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Up Mtv310 Past Papers Compatibility with Devices
  - Up Mtv310 Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Up Mtv310 Past Papers
  - Highlighting and Note-Taking Up Mtv310 Past Papers
  - Interactive Elements Up Mtv310 Past Papers
- 8. Staying Engaged with Up Mtv310 Past Papers
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Up Mtv310 Past Papers
- 9. Balancing eBooks and Physical Books Up Mtv310 Past Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Up Mtv310 Past Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Up Mtv310 Past Papers
  - Setting Reading Goals Up Mtv310 Past Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Up Mtv310 Past Papers
  - Fact-Checking eBook Content of Up Mtv310 Past Papers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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