

hnc aircraft engineering graded unit past papers Printable PDF

Introduction to HNC Aircraft Engineering Graded Unit Past Papers

HNC aircraft engineering graded unit past papers serve as essential resources for students pursuing higher national certificates in aircraft engineering. These past papers provide invaluable opportunities for learners to familiarize themselves with the exam format, question styles, and key topics that are likely to appear in the assessments. They act as both a revision tool and a means to gauge one's understanding of core concepts within the aircraft engineering discipline. For students aiming to excel in their graded units, analyzing these past papers is a vital step in their preparation strategy, offering insights into the examiners' expectations and the standard required to achieve high grades.

Understanding the Purpose of Past Papers in Aircraft Engineering

Why Are Past Papers Important?

Past papers are a cornerstone of effective exam preparation for several reasons:

- **Familiarization with Exam Format:** They help students understand the structure of the exam, including the types of questions asked, time constraints, and marking schemes.
- **Assessment of Knowledge Gaps:** Reviewing past papers allows learners to identify areas where their understanding may be insufficient.
- **Practice Under Exam Conditions:** Regular practice with past papers simulates the actual exam environment, reducing anxiety and improving time management skills.
- **Preparation for Common Question Topics:** They highlight frequently tested topics, enabling focused revision.

Benefits of Using Past Papers for Graded Unit Success

In the context of HNC aircraft engineering, graded units often carry significant weight towards final certification. The benefits of leveraging past papers include:

- Developing exam techniques and answering strategies specific to aircraft engineering questions.

- Building confidence through repeated practice.
- Tracking progress over time to improve performance.
- Gaining insight into how marks are allocated for different questions.

Sources and Accessibility of HNC Aircraft Engineering Past Papers

Where to Find Past Papers?

Accessing authentic past papers is crucial for effective preparation. Common sources include:

- **College or University Libraries:** Many institutions archive past exam papers accessible to students.
- **Official Examination Boards:** Boards such as City & Guilds or SQA often publish past papers and specimen questions online.
- **Online Educational Platforms:** Several websites compile collections of past papers for various vocational courses.
- **Peer Networks and Study Groups:** Students often share resources, including past papers, through online forums or study groups.

Ensuring Authenticity and Relevance

When sourcing past papers, it is vital to verify their currency and relevance:

- Check the publication year to ensure they align with the current syllabus.
- Confirm the papers are from reputable exam boards or recognized institutions.
- Use the latest versions to stay updated with any syllabus changes.

How to Effectively Use Past Papers in Your Study Routine

Developing a Study Plan

Incorporate past papers into your study schedule systematically:

- Set specific goals, such as completing a certain number of past papers each week.
- Allocate time for reviewing answers and understanding mistakes.
- Combine past paper practice with theory revision for comprehensive preparation.

Practicing with Past Papers

To maximize benefits, follow these best practices:

- **Simulate Exam Conditions:** Attempt papers within the allocated time without aids or distractions.
- **Review Your Answers:** Compare responses with mark schemes or model answers.
- **Identify Trends and Repeated Questions:** Note topics that frequently appear and focus revision accordingly.
- **Seek Feedback:** Discuss challenging questions with instructors or peers for clarification.

Analyzing and Learning from Mistakes

Post-practice review is crucial:

- Highlight errors and understand why they occurred.
- Revisit relevant theory to reinforce understanding.
- Adjust study strategies based on weak areas identified.

Common Topics Covered in HNC Aircraft Engineering Past Papers

Fundamental Aircraft Systems

Questions often focus on:

- Aircraft structures and materials
- Powerplant systems
- Electrical and avionics systems
- Hydraulic and pneumatic systems

Maintenance Practices and Regulations

Topics include:

- Maintenance procedures and documentation
- Safety regulations and compliance
- Inspection techniques and non-destructive testing

Aerodynamics and Flight Principles

Questions may test understanding of:

- Lift, drag, and thrust
- Stability and control
- Aircraft performance calculations

Electrical and Instrumentation Systems

Typical questions cover:

- Electrical circuit analysis
- Instrument operation and troubleshooting
- Automation and avionics integration

Tips for Preparing for the Graded Unit Using Past Papers

Integrate Past Papers into Your Overall Study Strategy

Use past papers as part of a balanced revision plan:

- Combine with textbook study, practical exercises, and classroom learning.
- Prioritize weak areas identified through past paper practice.
- Set realistic targets and timelines for completing practice papers.

Utilize Mark Schemes Effectively

Understanding how marks are awarded helps in:

- Structuring complete and concise answers.
- Identifying key points to include in responses.
- Maximizing marks through strategic answer presentation.

Seek Support and Clarification

Don't hesitate to:

- Ask tutors for feedback on practice answers.
- Join study groups for collaborative learning.
- Attend revision workshops or tutorials focused on past paper questions.

Conclusion: Maximizing Your Success with Past Papers

In conclusion, **hnc aircraft engineering graded unit past papers** are a vital resource for students aiming to excel in their exams. They offer a window into the examiners' expectations and help develop essential skills such as time management, question analysis, and effective answering strategies. By systematically incorporating past papers into their study routine, learners can build confidence, identify areas for improvement, and refine their knowledge of aircraft systems, maintenance procedures, and engineering principles. Ultimately, diligent practice with past papers, combined with comprehensive theoretical understanding, paves the way for success in the graded units and future careers in aircraft engineering. Remember, consistency and strategic revision are key to turning these past papers into powerful tools for achieving your academic goals.

HNC Aircraft Engineering Graded Unit Past Papers: A Comprehensive Review and Guide

Preparing for the HNC Aircraft Engineering Graded Unit can be a daunting task for many students. One of the most effective ways to ensure success is through diligent practice using past papers. In this article, we explore the significance, structure, and strategies related to HNC Aircraft Engineering Graded Unit past papers, providing valuable insights for students aiming to excel.

Understanding the Importance of Past Papers in HNC Aircraft Engineering

Why Use Past Papers?

Past papers serve as an essential resource for students aiming to:

- Familiarize themselves with the exam format and question styles
- Identify recurring themes and topics
- Practice time management skills
- Gauge their knowledge and readiness
- Build confidence through mock examination scenarios

Benefits of Practicing Past Papers

- Enhanced Understanding: Repeated exposure to questions helps deepen comprehension of

core concepts.

- Exam Technique Development: Students learn how to structure answers effectively and allocate time appropriately.
- Self-Assessment: Recognizing areas of weakness allows targeted revision.
- Stress Reduction: Familiarity with the exam format reduces anxiety on the test day.

Structure and Content of HNC Aircraft Engineering Graded Unit Past Papers

Overview of the Graded Unit

The Graded Unit in HNC Aircraft Engineering is a comprehensive assessment that integrates theoretical knowledge with practical application. Typically, it involves:

- A written exam covering core modules
- Practical assessments or case study analyses
- Project reports or presentations

Common Topics Covered in Past Papers

Past papers often reflect the core modules of the HNC program, including:

- Aerodynamics and Aircraft Structures
- Aircraft Systems and Maintenance
- Propulsion Systems
- Electrical and Avionics Systems
- Health and Safety Regulations
- Maintenance Procedures and Documentation
- Engineering Mathematics and Physics

Question Formats

Past papers may include various question types such as:

- Multiple-choice questions (MCQs)
- Short answer questions
- Extended essays or explanations
- Practical problem-solving scenarios

- Diagram labeling or interpretation

Understanding these formats helps students prepare appropriately for each section.

Accessing and Using HNC Aircraft Engineering Past Papers Effectively

Sources of Past Papers

Students can access past papers from multiple sources:

- College or University archives
- Official SQA (Scottish Qualifications Authority) website
- Online forums and student communities
- Educational resource websites specializing in engineering exams

Strategies for Effective Practice

- Timing Practice: Simulate exam conditions by setting strict time limits.
- Question Analysis: Break down questions to understand what is being asked.
- Answer Structuring: Practice clear, concise, and logically organized responses.
- Review and Feedback: Mark your answers critically, possibly with tutor feedback, to identify errors and improve.
- Topic Focus: Prioritize revising areas where past papers indicate common difficulties.

Creating a Study Schedule with Past Papers

- Start early and dedicate regular sessions for past paper practice.
- Combine past papers with theory revision to reinforce learning.
- Use a checklist to track topics covered and identify gaps.

Deep Dive into Past Paper Content: Key Topics and Practice Tips

1. Aerodynamics and Aircraft Structures

- Common Questions: Forces acting on aircraft, wing design principles, stress analysis.
- Practice Tip: Use diagrams to illustrate answers; familiarize yourself with basic aerodynamic

principles.

2. Aircraft Systems and Maintenance

- Common Questions: System components, troubleshooting procedures, maintenance schedules.
- Practice Tip: Study system diagrams thoroughly; practice explaining maintenance procedures step-by-step.

3. Propulsion Systems

- Common Questions: Engine types, thrust calculations, troubleshooting engine issues.
- Practice Tip: Solve numerical problems involving thrust, fuel consumption, and efficiency calculations.

4. Electrical and Avionics Systems

- Common Questions: Wiring diagrams, circuit analysis, fault diagnosis.
- Practice Tip: Practice interpreting electrical diagrams and diagnosing faults based on given scenarios.

5. Health, Safety, and Regulations

- Common Questions: Safety procedures, regulatory compliance, risk assessments.
- Practice Tip: Familiarize yourself with HSE guidelines and airline safety protocols.

Preparing for the Practical Element Using Past Papers

While much of the Graded Unit involves written assessments, practical skills are equally critical.

Practical Skills Practice

- Review past practical scenarios and case studies.
- Practice maintenance tasks under supervision or simulated environments.
- Use past case studies to develop troubleshooting skills.

Case Study Analysis

- Analyze previous case studies from past papers.
- Practice identifying faults, proposing solutions, and documenting procedures.

Common Challenges and How to Overcome Them

- Difficulty Remembering Technical Details: Use flashcards and diagrams for visual memory.
- Time Pressure During Exams: Regular timed practice helps improve speed.
- Interpreting Complex Diagrams: Practice diagram labeling and interpretation exercises.
- Understanding Question Requirements: Focus on question keywords like "explain," "calculate," "describe," to tailor responses appropriately.

Additional Resources and Support

- Study Guides and Textbooks: Supplement past papers with recommended reading.
- Tutorial Videos: Visual explanations of complex topics.
- Peer Study Groups: Share insights, quiz each other, and clarify doubts.
- Tutoring and Mentoring: Seek guidance from instructors for difficult areas.

Conclusion: Maximizing Your Success with Past Papers

The HNC Aircraft Engineering Graded Unit past papers are invaluable tools for exam preparation. They offer a window into the examiners' expectations, help in mastering exam techniques, and build confidence. To maximize their benefit:

- Incorporate them into a structured study plan
- Regularly practice under exam conditions
- Review and learn from mistakes
- Stay consistent and disciplined

Remember, success in the HNC Aircraft Engineering Graded Unit is not just about memorization but understanding and applying knowledge effectively. Past papers are your stepping stones toward achieving that mastery, leading to better grades and a solid foundation for your aerospace career.

In summary, whether you're a first-time candidate or retaking the exam, diligent practice with past papers tailored to the HNC Aircraft Engineering Graded Unit is essential. Combine this with comprehensive revision, practical skills development, and strategic exam techniques, and you'll be well on your way to acing your assessment.

QuestionAnswer Where can I find past papers for the HNC Aircraft Engineering Graded Unit? You can find past papers for the HNC Aircraft Engineering Graded Unit on the official college or university websites, the Scottish Qualifications Authority (SQA) website, or through dedicated student resource platforms and forums. How do past papers help in preparing for the HNC Aircraft Engineering Graded Unit? Past papers help by familiarizing students with the exam format, question styles, and common topics, thereby improving time management and confidence during the actual exam. Are there model answers or marking schemes available for HNC Aircraft Engineering past papers? Yes, some colleges and online platforms provide model answers or marking schemes to help students understand how to approach questions and improve their answers. Which topics are most frequently covered in the HNC Aircraft Engineering Graded Unit past papers? Common topics include aerodynamics, aircraft systems, maintenance procedures, safety protocols, and regulations related to aircraft engineering. Can I access HNC Aircraft Engineering graded unit past papers for free? Many past papers are available for free through college resources, online forums, or the SQA website, but some may require student login credentials or subscriptions. How should I best utilize past papers when studying for the HNC Aircraft Engineering Graded Unit? Use past papers to practice answering questions under exam conditions, identify weak areas, review marking schemes, and consolidate your understanding of key concepts. Are there any online platforms that offer practice exams for the HNC Aircraft Engineering Graded Unit? Yes, several online educational platforms and forums offer practice questions and mock exams tailored to the HNC Aircraft Engineering syllabus and graded unit requirements. What is the best way to review and learn from HNC Aircraft Engineering past papers? Review your answers against model solutions, understand any mistakes, revise relevant topics, and regularly practice using these papers to build confidence and improve performance.

Related keywords: HNC aircraft engineering, graded unit past papers, aviation engineering exams, aircraft maintenance questions, HNC engineering revision, aviation engineering practice papers, aviation technology assessments, aircraft systems past exams, engineering graded unit resources, HNC aviation coursework

Kom Unit 2

Understanding Kom Unit 2: An In-Depth Exploration

kom unit 2 is a term that often appears in various contexts, ranging from educational curricula to specific organizational units within different sectors. To fully grasp its significance, it is essential to analyze its origins, applications, and the core components that define it. Whether you are a student, a professional, or an enthusiast seeking comprehensive knowledge, this article aims to provide a detailed overview of Kom Unit 2, shedding light on its multifaceted nature.

Origins and Definition of Kom Unit 2

Historical Background

The term "Kom" can originate from different languages and disciplines, but in many contexts, it is associated with organizational or military terminology. The designation "Unit 2" suggests a subdivision within a larger structure, often representing a specific department, module, or functional segment.

Historically, the concept of dividing entities into units or modules has been prevalent across various fields to improve specialization, efficiency, and clarity. Kom Unit 2 may stem from such organizational strategies, tailored to meet the needs of particular industries or educational frameworks.

What Is Kom Unit 2?

At its core, Kom Unit 2 refers to the second segment or module within a broader system called "Kom." Depending on the setting, "Kom" could stand for:

- A course module in an academic program
- A specific operational unit within an organization
- A part of a technical system or software

In most contexts, Kom Unit 2 signifies a structured component designed to build upon foundational knowledge or functions established in Unit 1, offering advanced concepts, skills, or responsibilities.

Application Areas of Kom Unit 2

Educational Contexts

Within academic curricula, especially in technical and vocational training, Kom Unit 2 often forms part of a modular learning program. For example:

- **Technical Courses:** It might cover advanced topics like system design, programming, or engineering principles.
- **Language Learning:** It could involve intermediate grammar, vocabulary expansion, and conversational skills.
- **Professional Development:** Focused on practical applications and real-world scenarios.

In such settings, successfully completing Kom Unit 2 indicates progression to more complex topics, preparing learners for further modules or certification.

Organizational and Military Usage

In organizational or military terminology, Kom Unit 2 could refer to:

- A specific team or squad responsible for particular operational tasks
- A subdivision within a command structure
- A specialized task force focusing on a defined mission

Understanding its role within the larger framework is crucial for effective coordination and operational success.

Technical and Software Systems

In technical systems, especially in software or hardware configurations, Kom Unit 2 might denote:

- A particular module or component within a system architecture
- A version or iteration of a software package
- A functional segment responsible for specific operations, such as data processing or communication

Developers and engineers rely on this segmentation for troubleshooting, upgrades, and system optimization.

Core Components of Kom Unit 2

Key Features and Characteristics

While the specifics can vary considerably based on the context, some common features of Kom Unit 2 include:

- **Progressive Complexity:** It builds upon foundational knowledge from Unit 1, introducing more advanced concepts.
- **Specialized Content:** Focused on particular skills or topics relevant to the field.
- **Structured Learning or Operation:** Organized into modules, lessons, or tasks to facilitate systematic progress.

- **Assessment Criteria:** Includes evaluations to measure understanding or performance.
- **Integration with Other Units:** Designed to connect seamlessly with previous and subsequent modules or units.

Skills and Knowledge Acquired

Depending on the domain, students or professionals engaging with Kom Unit 2 can expect to develop:

- Deepened understanding of core principles
- Practical skills applicable to real-world scenarios
- Problem-solving abilities
- Technical proficiency in specific tools or systems
- Critical thinking and analytical skills

Importance of Kom Unit 2

Advancement in Learning and Career

Completing Kom Unit 2 often signifies a significant step forward in a learning journey or career path. It prepares individuals for:

- Handling more complex tasks
- Assuming greater responsibilities
- Specializing in niche areas
- Preparing for certification exams or professional accreditation

Operational Efficiency and Effectiveness

Within organizations, the proper functioning of Kom Unit 2 ensures:

- Enhanced productivity
- Better coordination among units
- Improved quality of outputs
- Streamlined workflows

Challenges and Considerations in Implementing Kom Unit 2

Potential Challenges

Implementing or mastering Kom Unit 2 can involve obstacles such as:

- Complexity of content or tasks
- Resource limitations
- Lack of adequate training or support
- Resistance to change within organizations
- Technological barriers

Strategies for Successful Deployment

To overcome these challenges, consider:

- Providing comprehensive training programs
- Ensuring clear communication of objectives and expectations
- Allocating sufficient resources and infrastructure
- Encouraging feedback and continuous improvement
- Integrating support systems for learners or operators

Future Outlook of Kom Unit 2

Emerging Trends

With advancements in technology and education, Kom Unit 2 is expected to evolve in several ways:

- Incorporation of digital tools and e-learning platforms
- Increased emphasis on practical, hands-on experiences
- Integration of artificial intelligence and automation
- Customization of modules to cater to individual needs
- Enhanced assessment and feedback mechanisms

Potential Developments

Future developments might include:

- More seamless integration with other units and systems

- Adaptive learning pathways
- Greater focus on interdisciplinary skills
- Expansion into new fields and industries

Conclusion

In summary, **Kom Unit 2** represents a pivotal stage within various frameworks, whether educational, organizational, or technical. Its significance lies in fostering deeper understanding, enhancing skills, and supporting progression. As industries and educational paradigms continue to evolve, so too will the role and structure of Kom Unit 2, adapting to meet emerging challenges and opportunities. For individuals and organizations alike, mastering this unit can serve as a foundation for sustained growth and success in their respective domains.

Kom Unit 2 is a pivotal component in understanding the broader framework of the Kom series, offering a nuanced look into the core principles, practical applications, and strategic implications of the second module. Whether you're a newcomer seeking foundational insights or an experienced professional aiming to deepen your knowledge, this comprehensive guide will walk you through everything you need to know about Kom Unit 2, from its key features to its real-world relevance.

Introduction to Kom Unit 2

Kom Unit 2 builds upon the foundational concepts introduced in the initial module, delving into more advanced topics that are critical for mastery. It emphasizes not just theoretical understanding but also practical application, making it essential for anyone looking to leverage Kom's full potential in their workflows or strategic planning.

In essence, Kom Unit 2 serves as a bridge between introductory knowledge and expert-level proficiency, equipping users with the tools and insights necessary to navigate complex scenarios efficiently.

Overview of Key Concepts in Kom Unit 2

Expanded Functionality and Features

While Kom Unit 1 focused on basic setup and introductory features, Kom Unit 2 explores advanced functionalities, including:

- Enhanced customization options
- Deeper integration capabilities with other tools
- Advanced data analysis techniques

- Automation of complex workflows

Core Principles Reinforced

The module emphasizes several core principles:

- Flexibility: Adapting Kom to diverse environments
- Scalability: Managing increasing data volume and complexity
- Efficiency: Streamlining processes to save time and resources
- Security: Ensuring data integrity and privacy

Deep Dive into Kom Unit 2 Components

- Advanced Data Management

Kom Unit 2 introduces sophisticated methods for handling data, such as:

- Multi-layered data filtering
- Real-time data synchronization
- Data validation and cleansing tools
- Hierarchical data structures

These features enable users to manage larger datasets more effectively, ensuring accuracy and consistency.

- Customization and Personalization

This unit emphasizes the importance of tailoring the platform to specific needs:

- Custom dashboards and reports
 - User-specific workflows
 - Personalized notifications and alerts
 - Modular plugin integrations
-
- Integration and Automation

Seamless integration with other tools is a highlight:

- API connections with third-party applications
- Automating repetitive tasks with scripting
- Trigger-based workflows
- Cross-platform data sharing

Automation reduces manual effort and minimizes errors, leading to more reliable outputs.

- Security and Compliance

Given the increasing importance of data security:

- Role-based access controls
- Encryption protocols
- Audit trails and activity logs
- Compliance with industry standards (GDPR, HIPAA, etc.)

Practical Applications of Kom Unit 2

Business and Enterprise Use Cases

- Data-Driven Decision Making: Leveraging advanced analytics to inform strategic choices.
- Process Automation: Streamlining operations such as inventory management, customer relations, or financial reporting.
- Custom Reporting: Creating tailored reports for stakeholders, enabling better insights.
- Security Protocols: Ensuring sensitive data remains protected across workflows.

Educational and Research Applications

- Managing large datasets for research projects
- Automating data collection and analysis
- Developing custom tools for specific research needs

Industry-Specific Implementations

- Healthcare: Managing patient data securely
- Finance: Automating transaction processing
- Retail: Enhancing inventory and sales analytics

Best Practices for Maximizing the Benefits of Kom Unit 2

- Planning and Requirement Gathering

Before diving into implementation, clearly define:

- Business objectives
 - Data sources and types
 - Integration points
 - Security requirements
-
- Step-by-Step Deployment
-
- Start with pilot projects
 - Gradually scale functionalities
 - Collect user feedback for continuous improvement
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- Training and Support
-
- Provide comprehensive training sessions
 - Develop detailed documentation
 - Establish support channels for troubleshooting
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- Continuous Monitoring and Optimization
-
- Regularly review workflows and data quality
 - Update automation scripts as needed
 - Stay informed about new features and updates

Challenges and Solutions in Implementing Kom Unit 2

While Kom Unit 2 offers powerful capabilities, implementation can pose challenges:

Common Challenges

- Data integration complexities
- Resistance to change from staff
- Managing security and compliance
- Ensuring system scalability

Solutions and Recommendations

- Conduct thorough planning and testing
- Engage stakeholders early
- Invest in training and change management
- Use scalable infrastructure and modular design

Future Outlook for Kom Unit 2

The evolution of Kom Unit 2 is poised to continue, with upcoming features focusing on:

- Artificial Intelligence integration for predictive analytics
- Enhanced user interfaces for easier interaction
- Broader automation capabilities
- Improved security protocols

As organizations increasingly rely on data-driven strategies, mastering Kom Unit 2 will become even more critical for competitive advantage.

Final Thoughts

Kom Unit 2 represents a significant step forward in harnessing the full potential of the Kom platform. Its focus on advanced features, customization, integration, and security makes it an indispensable tool for modern organizations seeking efficiency and strategic insight. By understanding its core components, applications, and best practices, users can unlock new levels of productivity and innovation.

Whether you're looking to optimize existing workflows or develop new capabilities, investing time in mastering Kom Unit 2 will pay dividends in operational excellence and data empowerment.

QuestionAnswer What are the main topics covered in KOM Unit 2? KOM Unit 2 typically covers advanced communication concepts, including digital communication systems, signal processing, and network protocols relevant to modern telecommunications. How can I prepare effectively for the KOM Unit 2 exam? Focus on understanding key principles of digital communication, practice solving problem sets, review past exams, and ensure you grasp the theoretical concepts alongside practical applications. What are common challenges students face in KOM Unit 2? Students often struggle with complex signal processing topics, understanding network architectures, and applying theoretical knowledge to real-world scenarios. Regular practice and seeking clarification help overcome these hurdles. Are there any recommended resources for studying KOM Unit 2? Yes, textbooks on digital communication systems, online lecture videos, academic papers, and university-provided lecture notes are valuable resources to deepen your understanding of KOM Unit 2 topics. How does KOM Unit 2 relate to current industry trends? KOM Unit 2's focus on advanced communication and network technologies aligns with current industry developments like 5G, IoT, and AI-driven communication systems, making it highly relevant for future careers. What practical skills will I gain from KOM Unit 2? Students will develop skills in analyzing communication systems, designing signal processing algorithms, and understanding network protocols, which are essential for careers in telecom and data communication fields. Is prior knowledge in basic communication theory necessary for KOM Unit 2? Yes, a solid understanding of foundational communication concepts from previous units is essential to grasp the advanced topics covered in KOM Unit 2 effectively.

Related keywords: kom unit 2, kom unit 2 syllabus, kom unit 2 syllabus 2023, kom unit 2 exam, kom unit 2 past papers, kom unit 2 notes, kom unit 2 preparation, kom unit 2 guide, kom unit 2 questions, kom unit 2 marks

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