

# UNIT 1 INVESTMENT ENVIRONMENT

## MOCK EXAM ONE CFA UK

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#### Unit 1 Investment Environment Mock Exam: CFA UK

##### Question 1:

Identify the three main categories of economic resources.

##### Answer:

1. Land (natural resources)
2. Labor (human resources)
3. Capital (produced resources)

##### Question 2:

Explain the concept of market efficiency and its implications for investors.

##### Answer:

Market efficiency refers to the degree to which security prices reflect all available information. In an efficient market, investors cannot consistently outperform the market by buying and selling stocks based on publicly available information. This has implications for investment decision-making, as investors should focus on asset allocation and diversification rather than trying to time the market.

##### Question 3:

Describe the role of the Federal Reserve (Fed) in regulating the US economy.

**Answer:**

The Fed is the central bank of the United States. It plays a crucial role in regulating the economy by setting interest rates, controlling the money supply, and supervising financial institutions. The Fed's primary objective is to maintain price stability and maximum employment.

**Question 4:**

Explain the relationship between inflation and interest rates.

**Answer:**

Inflation is a measure of the increase in the general price level over time. Interest rates are the cost of borrowing money. When inflation is high, investors demand higher interest rates to compensate for the loss in purchasing power due to inflation. As a result, central banks typically raise interest rates to combat inflation.

**Question 5:**

Discuss the ethical responsibilities of investment professionals.

**Answer:**

Investment professionals have a fiduciary duty to their clients. This requires them to act in the best interests of their clients, put their clients' interests before their own, and avoid conflicts of interest. Ethical responsibilities also include adhering to the codes of conduct and regulations set by regulatory bodies, such as the CFA Institute Code of Ethics and Standards of Professional Conduct.

**How to design a raft foundation?** The raft design will normally need a hardcore sub-base to level the ground. This stone should be mechanically compacted. You must ensure steel reinforcement is lapped at least 450mm (for both mesh and mild steel bars) and provided with 40mm concrete cover.

**Do I need a structural engineer for a raft foundation?** Raft foundations are shallow foundations, and are therefore not suitable for every building project. The advice of a building surveyor or structural engineer should always be sought before

committing to a project.

### **What is the construction methodology for raft foundation?**

#### **What are the possible method adopted for designing of raft foundation?**

Explanation: Ordinarily, rafts are designed as reinforced concrete flat slabs using heavy beams. Explanation: The weight of the raft is not considered in the structural design because it is assumed to be carried by directly by the subsoil.

**How thick should a raft foundation be?** Raft foundations (sometimes referred to as raft footings or mat foundations) are formed by reinforced concrete slabs of a uniform thickness (typically 150 mm to 300 mm) that cover a wide area, often the entire footprint of a building.

**What are the three types of raft foundation?** However, the main ones are: Solid slab raft foundation. Slab-beam type raft foundation. Cellular raft foundation.

**What are the disadvantages of a raft foundation?** Raft foundations are not suitable for every project, as they also have some drawbacks that need to be weighed against the benefits. For example, they can increase the stress on the soil, as they transfer a large load over a wide area. This can cause problems if the soil is weak, compressible, or prone to consolidation.

**Do raft foundations require deeper excavation?** Raft foundations are a popular choice because they tend to be quick and inexpensive to build. Compared to other types of foundations, they don't require deep excavations to be made, and they use fewer materials as the foundation is combined with the ground slab.

**What are the minimum requirements for raft foundation?** These include a minimum depth of 50cm and an excavation depth of 2.5m. Rebar coverage must be 50mm. The design specifications for the construction of Raft foundations are as follows: 1.

### **What is the construction sequence of raft foundation?**

**What is the difference between raft footing and raft foundation?** A mat foundation, also known as a Raft foundation, is a large, continuous slab that covers the entire area beneath a structure, distributing the load evenly to the soil. In

contrast, spread footings, commonly referred to as Isolated footings, consist of individual bases supporting columns or walls.

**Is there a code for raft foundation?** IS 2950-1: Code of practice for design and construction of raft foundations, Part 1: Design.

**How to build a raft foundation step by step?**

**What is the main reinforcement in raft foundation?** In a raft foundation, the reinforcement is laid out in both directions, i.e., along the shorter span and along the longer span, to provide the necessary strength and stability to the foundation. Typically, the reinforcement along the shorter span is laid out first, followed by the reinforcement along the longer span.

**How to calculate bearing capacity of raft foundation?**

**Are raft foundations cheaper than strip foundations?** Raft foundations will generally require a substantial amount of additional formwork and steel reinforcement over and above a standard strip foundation making them more expensive.

**Do raft foundations need piles?** The addition of piles to a raft increases the effective size of a foundation and can help resist horizontal loads. This can improve the performance of the foundation in reducing the amount of settlement and differential settlement, as well as improving the ultimate load capacity.

**What grade of concrete is used for raft footings?** Standard Grade of Concrete for Foundation: ? Pile Caps, Footings and Raft Foundation: C40 to C50 (40 to 50 N/sq.mm) MPa.

**How expensive are raft foundations?**

**Is a raft foundation shallow or deep?** Raft foundations are a type of shallow foundation. They are typically formed by reinforced concrete slabs that cover a wide area, often the entire footprint of a building.

**Which soil is suitable for raft foundation?** Raft foundation is preferred when the clayey soil is compact and hard. Even strap foundation can also be used. Soft clayey

sand is prone to expansion and shrinkage. They have a low bearing capacity and are unsuitable for footing and strap foundation.

**How do you strengthen a raft foundation?** It may be strengthened by increased thickness of concrete in areas of heavy loading, such as under columns, or by a system of main and secondary beams. Simple solid raft foundations may be easily and quickly constructed, provided that a suitable stratum exists fairly close to the finished site level — say within 3 m.

**Which is better raft foundation or ground bearing slab?** Slab on grade pours are on well compacted, water flow suitable subgrade and typically hold only a light structure. Raft foundations are typically excavated sites, whereby the entire perimeter, sides, and base are poured seamlessly together to form a raft that a heavier structure can rest on.

**Is a floating foundation the same as a raft foundation?** For a floating raft foundation – or simply "floating foundation" – the foundation has a volume such that, if that volume filled with soil, it would be equal in weight to the total weight of the structure.

**What is the minimum depth of a raft foundation?** These include a minimum depth of 50cm and an excavation depth of 2.5m. Rebar coverage must be 50mm. The design specifications for the construction of Raft foundations are as follows: 1.

**How to design pile raft foundation?** The traditional design approach for piled-raft foundation is to adjusting diameter, length and number of piles to carry the vertical component of the total load transferred by the superstructure with adequate safety. The load carrying capacity or the contact between raft & soil is neglected.

**What is the construction sequence of raft foundation?**

**What is the spacing for raft foundation?** Raft Building Foundations are constructed with typical slab depths between 4'-12" (10-30 cm). Column widths are commonly 8'-12" (20-30 cm) with column spacings from 9'-10'-24'-6" (3-7.5 m).

**What is the thumb rule for steel in raft foundation?** As per the thumb rule steel quantity needed in the formation of footing or foundation should be 0.5% of total volume of concrete. To calculate the steel quantity in footing as 5% of volume of

concrete  $0.005\% \times 7850 \times 2.7 = 106 \text{ kg}$ .

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**Is there a code for raft foundation?** IS 2950-1: Code of practice for design and construction of raft foundations, Part 1: Design.

**What are the four types of raft foundation?** Slab beam rafts, Cellular rafts, Piled raft foundations; and, Balancing (or floating) rafts.

**How to build a raft foundation step by step?**

**What is the methodology of raft foundation?** Construction Process of Raft Foundation Determination of the depth of raft footing. Excavation of the soil to a suitable depth. Soil Compacting. Laying a waterproofing membrane at the bottom.

**What is the minimum depth of raft foundation?** In frost susceptible soils, eg chalk, the depth to the underside of the foundation should be at least 450mm below finished ground level, to avoid damage from frost action.

**What are the disadvantages of raft foundation?** Raft foundations are not suitable for every project, as they also have some drawbacks that need to be weighed against the benefits. For example, they can increase the stress on the soil, as they transfer a large load over a wide area. This can cause problems if the soil is weak, compressible, or prone to consolidation.

**What is the lapping length for raft foundation?** If it's a dowel reinforcement then it shall be 12 times the diameter. If reinforcement is subjected to tension (within the tension chord) then lapping length shall be 50 times the diameter.

### **Yanmar Industrial Diesel Engine TNE Series: Service and Repair Manual Questions and Answers**

**Q: What models does the TNE Series service and repair manual cover?**

A: The manual covers the following TNE Series models: 2TNE68, 3TNE68, 3TNE74, 3TNE78A, 3TNE82A, 3TNE82, 3TNE84, 3TNE88, 4TNE82, 4TNE84, 4TNE88, 3TNE84T, and 4TNE84T.

**Q: What information is included in the manual?**

A: The manual provides comprehensive instructions for servicing, repairing, and maintaining these engines. It includes detailed descriptions of the engine systems, diagnostic procedures, troubleshooting guides, and step-by-step instructions for repairs.

**Q: Who should use the manual?**

A: The manual is suitable for experienced mechanics, technicians, and equipment owners who have a basic understanding of diesel engine repair. It assumes familiarity with the tools and techniques used in engine maintenance.

**Q: What are the benefits of using the service and repair manual?**

A: Using the manual allows you to perform maintenance and repairs accurately and efficiently, saving time and money. It provides detailed instructions that reduce the risk of making mistakes, ensuring the safety and reliability of your equipment.

**Q: How do I obtain a copy of the service and repair manual?**

A: The Yanmar Industrial Diesel Engine TNE Series service and repair manual is available from authorized Yanmar dealers or online retailers specializing in diesel engine literature.

**Zwillen bauen – Eine Anleitung**

Eine Zwillle ist eine einfache, aber effektive Waffe, die für die Jagd oder den Freizeitsport verwendet werden kann. Sie kann aus wenigen leicht verfügbaren Materialien hergestellt werden, und mit ein wenig Übung kann jeder eine Zwillle bauen, die sowohl präzise als auch kraftvoll ist.

**Was ist eine Zwillle?**

Eine Zwillle ist ein Werkzeug, das aus einem Y-förmigen Rahmen und zwei elastischen Bändern besteht. Der Rahmen wird in einer Hand gehalten, während die Bänder in der anderen Hand gespannt werden. Ein Projektil, wie z. B. ein Stein oder eine Murmel, wird in die Mitte der Bänder gelegt und durch Loslassen der Bänder abgefeuert.

**Was wird zum Bau einer Zwillle benötigt?**

Um eine Zwillle zu bauen, werden folgende Materialien benötigt:

- Ein Y-förmiger Ast oder Stab
- Zwei elastische Bänder
- Leder oder ein anderes robustes Material für die Aufhängung des Projektils
- Schnur oder Klebeband

**Wie baut man eine Zwillle?**

1. Schneide einen Ast oder Stab in eine Y-Form. Die beiden Arme der Y-Form sollten etwa gleich lang sein.
2. Bohre ein kleines Loch in jedes Ende der Arme der Y-Form.
3. Führe die elastischen Bänder durch die Löcher und verknote sie.



4. Schneide ein Stück Leder oder ein anderes robustes Material in die gewünschte Größe und Form für die Projektaufhängung.
5. Binde oder klebe die Projektaufhängung an die Mitte der elastischen Bänder.

### Wie wird eine Zwillie verwendet?

1. Halte den Griff der Zwillie fest in einer Hand.
2. Lege ein Projektil in die Mitte der Projektaufhängung.
3. Spann die elastischen Bänder mit der anderen Hand.
4. Ziele auf dein Ziel und lass die elastischen Bänder los.

### Tipps für präziseres Schießen mit einer Zwillie

- Verwende ein Projektil mit einem gleichmäßigen Gewicht und einer gleichmäßigen Form.
- Spann die elastischen Bänder gleichmäßig.
- Zielen Sie vorsichtig und nehmen Sie sich Zeit für Ihren Schuss.
- Üben Sie regelmäßig, um Ihre Genauigkeit zu verbessern.

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