



THURSDAY 17<sup>th</sup> APRIL 2014 – MORNING

## OFFSHORE SUPPORT INDUSTRY

Time allowed – three hours

Answer any FIVE questions – all questions carry equal marks

Please read the questions carefully before answering

1. Over recent years the offshore industry has seen a significant increase in tonnage broadly designated as Subsea Support Vessels or Light Construction/IRM Vessels.

Answer **both** parts of the question:

- a) With the aid of a diagram describe a modern vessel of this type showing the vessel's main details, dimensions, capacities and other relevant aspects.
  - b) Comment on the features and equipment of such a vessel and the workscope with geographical markets for which the vessel is most suited.
2. Give a detailed explanation of **four** of the following:
    - a) OIM
    - b) Taut Wire
    - c) MODU
    - d) TEMPSC
    - e) SWH (Hs)
    - f) Diving Spread
  3. Explain the 'knock-for-knock' principle. Discuss its inclusion in a charter party with examples of how it could apply in practice.

**PLEASE TURN OVER**

4. Taking a geographical area of your choice, analyse the range of ports and their facilities to support the offshore industry. Comment on the factors which could encourage or potentially restrict future growth and development.
  
5. A company with a forthcoming pipelaying programme has requested you as their exclusive broker to provide an overview of the marine support required for the operation. Prepare a report outlining what considerations the company should make when assessing their vessel chartering requirements.
  
6. An offshore broker would be expected to provide a range of services to their clients. Explain the range of services and discuss how a broker can add value and remain competitive in the modern offshore market.
  
7. Discuss the advantages and disadvantages for an offshore oil company in maintaining its own chartered supply vessel fleet or subcontracting its cargo requirements to a marine logistics company.
  
8. Use the world map provided to indicate areas where FPSOs are deployed. Discuss why there is significant growth in the use of these vessels, highlighting their advantages and disadvantages.