



WEDNESDAY 21ST NOVEMBER - AFTERNOON

OFFSHORE SUPPORT INDUSTRY

Time allowed – three hours

Answer any FIVE questions – all questions carry equal marks

Please read the questions carefully before answering

1. Using diagrams (profile and a plan) to support your answer, describe and identify the main features and equipment of a Diving Support Vessel suitable for undertaking saturation diving operations.
2. Explain **FOUR** of the following terms/acronyms.
 - i) Maintenance Days
 - ii) ROV
 - iii) VLS
 - iv) A-Frame
 - v) Dodging
 - vi) Subsea Completion
3. Explain the purpose and significance of OVID and CMID, and discuss how and when they are used.
4. Describe a typical fixture note or booking letter for a rig move or cargo run, stating the charter party and referencing **FOUR** clauses which could be amended.
5. Using the world map provided show an area of oil and gas activity and analyse the range of ports within that area including distances to offshore locations and their facilities to support the offshore industry. Comment on the factors which you consider will impact on future growth and development.
6. Explain the purpose of a Mutual Hold Harmless Agreement. Discuss its inclusion in a charter party with examples of how it could apply in practice.

PLEASE TURN OVER

7. A ship operator with extensive experience in the offshore oil support industry has approached you with a request for a broad perspective of the offshore renewable energy industry. Write a report providing a general overview of the OREI.

8. A ship owner is considering a new build vessel for a long term multi-purpose/stand-by role with a major oil company. Environmental impact and efficiency have been stressed as key elements in the vessel specification. Discuss what recommendations you would make for the vessel's specification.