

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF ENGINEERING AND TECHNOLOGY

UNIVERSITY EXAMINATIONS FOR THE DIPLOMA IN MARINE ENGINEERING (TVET)

1ST YEAR 2ND SEMESTER 2023/2024 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: TDM 2129

COURSE TITLE: BASIC SEA SURVIVAL TECHNIQUES

EXAM VENUE: STREAM: Dip Marine Eng

DATE: ../04/2024 EXAM SESSION:

DURATION: 3 HOURS

Instructions

- 1. Answer question 1 (Compulsory) and ANY other three questions
- 2. Candidates are advised not to write on question paper
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

QUESTION ONE (40 MARKS)

- a) Define First Aid. (6 Marks)
- b) Describe the ABCs of First Aid. (10 Marks)
- c) Explain the CPR process. (10 Marks)
- d) Describe the First Aid procedures onboard ship when you encounter a casualty with the following; (14 Marks)
 - i) Electric shock
 - ii) Choking
 - iii) Drowning
 - iv) Burns
 - v) Bone Fracture
 - vi) Ingestion of hazardous substances
 - vii) Extreme temperatures

QUESTION TWO (20 MARKS)

- a) What is SOLAS in full? (2 Marks)
- b) What events led to the existence of SOLAS? (2 Marks)
- c) How many Chapters does the SOLAS convention contain and briefly describe each chapter? (16 Marks)

QUESTION THREE (20 MARKS)

- a) What is ISPS code in full? (1 Mark)
- b) What events led to its existence? (1 Mark)
- c) To which Ships does the ISPS code apply? (2 Marks)
- d) What are the responsibilities of the Ship Security Officer (SSO) under the ISPS code? (5 Marks)
- e) Who is a port facility security officer (PFSO) and what are their responsibilities? (2 Marks)
- f) Describe the ISPS code security levels? (3 Marks)

g) What are the common measures undertaken by ships transiting piracy prone routes to prevent boarding of pirates? (6 Marks)

QUESTION FOUR (20 MARKS)

- a) What are the various life-saving equipment that are found on-board ships? (5 Marks)
- b) For each equipment above; Explain in detail their locations on-board,
 - Situation that they are to be used,
 - Describe their on-board checks and maintenance. (15 Marks)

QUESTION FIVE (20 MARKS)

- a) What are the various emergency situations that are possible to occur at sea? (4 Marks)
- b) How the crew alerted by the Master in case of such emergency situations answered in (a) above? (2 marks)
- c) Where do the crew assemble at when responding to the emergency signals and what activities are to be carried out for each emergency situation mentioned in (a) above? (12 marks)