

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**

**HOME SCHOOLING SELF-STUDY TEST 1**

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| **SUBJECT** | NAUTICAL SCIENCE | **GRADE** | 11 | **DATE** | 6/24/20 |
| **TOPIC** | MARITIME COMMUNICATIONS | **TERM 1**  **REVISION** | X | **TERM 2 CONTENT** |  |
| **TIME ALLOCATION** | 1 hOUR | **TIPS TO KEEP HEALTHY**  1. **WASH YOUR HANDS** thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.  2. **PRACTICE SOCIAL DISTANCING** – keep a distance of 1m away from other people.  3. **PRACTISE GOOD RESPIRATORY HYGIENE**: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.  4. **TRY NOT TO TOUCH YOUR FACE.** The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick.  5. **STAY AT HOME.** | | | |
| **INSTRUCTIONS** | 1. **All** relevant working must be shown in your exercise/activity book.  2. **ALL** work done on the chart must be done lightly with a 2B pencil **ONLY**.  3. The attached extracts from nautical tables are to be used where applicable.  4. The use of scientific calculators is permitted.  5. Courses, bearings and corrections must be calculated to the nearest degree and plotted to a similar accuracy.  6. Use the **Variation** specified in the questions, and the attached deviation card is to be used.  7. It is in your own best interest to write legibly and present your work neatly. |

**Maritime Communications**

**QUESTION 1**

1.1 Name any four (4) means of maritime communication available to seafarers. (4)

1.2 What is the name of the publication used for flag identification and

interpretation of the meaning of flags. (1)

1.3 What is the code word of each of the following letters?

1.3.1 C (1)

1.3.2 J (1)

1.3.3 N (1)

1.3.4 V (1)

1.3.5 Y (1)

1.4 Which flag should you hoist to indicate the following situation / activity?

1.4.1 Yes / Positive / Affirmative (1)

1.4.2 No / Negative (1)

1.4.3 Man overboard (1)

1.4.4 I am altering course to port (1)

1.4.5 My engines are going astern (1)

1.5 What is the single meaning of the following flag?

1.5.1 WHISKEY (1)

1.5.2 QUEBEC (1)

1.5.3 GOLF (1)

1.5.4 HOTEL (1)

1.5.5 ZULU (1)

**Sub Total [20]**

**QUESTION 2**

2.1 Name the two ways by which vessels identify each other by radio-telephony

over a radio network. (2)

2.2 According to the correct radio procedure, a general radio-telephony massage consists of four (4) elements/components. Name them. (4)

2.3 What is the code word/signal for the following messages?

2.3.1 “DISTRESS” message (1)

2.3.2 “URGENCY” message (1)

2.3.3 “SAFETY” message (1)

2.4 What do the following distress and safety messages/signals indicate and/or imply about the station initiating them?

2.4.1 “DISTRESS” call/message (1)

2.4.2 “URGENCY” message (1)

2.4.3 “SAFETY” message (1)

2.5 A “DISTRESS” message must comprise/consist of six (6) elements or

components. List them. (6)

2.6 Between a “DISTRESS” call, “DISTRESS” message, “URGENCY” message,

and “SAFETY” message; which has priority over all other transmissions? (1)

2.7 On whose authority/permission is a “DISTRESS” message sent? (1)

**Sub Total [20]**

**QUESTION 3**

3.1 Your vessel name is "Zupta," call sign ZSTW, and you are 50 miles NNE of Richards Bay proceeding towards the port in heavy weather, strong gale force winds from the South, and you have reduced visibility. You lose three containers overboard.

3.1.1 In terms of maritime communication, what type of message/warning

you would broadcast over radio? (1)

3.1.2 Give an example of the radio message to transmit in order to alert

ships of the navigation hazards posed by the cargo lost overboard. (10)

3.2 Your vessel, "Zupta," call sign ZSTW, has broadcast a distress message because your vessel had broken down and drifting ashore. Subsequently your engine is restarted and your situation no longer requires assistance.

3.2.1 In terms of maritime communication, what is one of the first things

you should do? (1)

3.2.2 Give an example of the radio message to transmit. (8)

3.3 What is the **international** distress frequency for radio telephony? (2)

3.4 What is the **maritime** distress frequency for radio telephony (2)

3.5 When making a radio call, radio operators must at all times observe good operating practices. Name any five (5) of these good operating practices. (5)

3.6 How many times is a ‘silence period’ observed in a single hour? (1)

**Sub Total [30]**

**GRAND TOTAL : 70**