TR05 Assessment

- The test contains 20 questions
- You have 60 minutes to complete it

1)

Question 1

Units of measurement. Length

Match the correct answer to the question below.

Answer by drawing lines from the left column to the right column

How many meters (m) in a nautical mile (nm)?	1000
How many meters (m) in a kilometre (km)?	1852
How many millimetres (mm) in a centimetre (cm)?	100
How many centimetres (cm) in a meter (m)?	10

2)

Question 2

Units of measurement. Weight

Select the correct answer to the question

Answer by drawing lines from the left column to the right column

What is the difference in hours between GMT and UTC?	500
How many time zones does the sun pass in a day from 00:00 to 23:59?	1000
How many grams (g) in half (0.5) of a kilogram (kg)?	24
How many kilograms (kg) in one ton (T)?	0

3)

Question 3

The speed of a vessel at sea is normal measures in which units?

Answer by ticking the correct answers

[ ] Miles per hour (m/h)

[ ] Kilometres per hour (km/hr)

[ ] Meters per second (m/s)

[ ] Nautical miles per hour (Knots)

4)

Question 4

[True or False] The maximum Latitude is 180 degrees North or South?

Answer by ticking the correct answers

[ ] False

[ ] True

5)

Question 5

[True or False] Lines of Latitude run parallel to the equator?

Answer by ticking the correct answers

[ ] True

[ ] False

6)

Question 6

[True or False] All lines of Longitude run parallel to the prime meridian?

Answer by ticking the correct answers

[ ] True

[ ] False

7)

Question 7

[True or False] On a chart projection the degrees of latitude are read the side of the chart?

Answer by ticking the correct answers

[ ] True

[ ] False

8)

Question 8

True or False The maximum degrees of longitude are measures to 180 degrees East or West of the Prime Meridian?

Answer by ticking the correct answers

[ ] True

[ ] False

9)

Question 9

Remember, there are 60 minutes in a degree and 60 seconds in a minute.

Therefore if the vessel is recording its position and you are required to record on your data form the positions in degrees/minutes/seconds (DD mm ss) Would you record a position reading given to you by the captain [55 N 57 786] as

55 degrees North and

57 minutes and

78.6 seconds ?

Answer by ticking the correct answers

[ ] No

[ ] Yes

10)

Question 10

Match the compass cardinal points to the relative direction in degrees.

For example N = 000

Answer by drawing lines from the left column to the right column

NE	225
S	135
W	180
SW	315
SE	090
NW	045
E	270

11)

Question 11

Speed/Distance/Time calculations.

Match the formulas for these below.

Answer by drawing lines from the left column to the right column

Speed	Speed multiplied by Time [SxT]
Distance	Distance divided by Speed [D/S]
Time	Distance divided by Time [D/T]

12)

Question 12

To what point on the earth's surface does an electronic compass (gyro compass) point?

Write your answer below

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

13)

Question 13

[True of False] It is ok for the observers to adjust the range on the plotter on the bridge to check the distance to the harbour?

Answer by ticking the correct answers

[ ] False

[ ] True

14)

Question 14

[True or False] A plotter can display two positions depending in which mode it is in, Navigation or Plot?

Answer by ticking the correct answers

[ ] True

[ ] False

15)

Question 15

[True or False] A radar can display the presence of a vessel in restricted visibility or darkness?

Answer by ticking the correct answers

[ ] False

[ ] True

16)

Question 16

[True or False] A sonar can only show the depth of shoals of fish directly below the vessel?

Answer by ticking the correct answers

[ ] False

[ ] True

17)

Question 17

Calculating Distance

Start Position   **19O 30' North   081O 52' East**

End Position   **18O 45' North   081O 52' East**

Steaming South (180)

What is the distance between these two positions in Nautical Miles?

Answer by ticking the correct answers

[ ] 30 nautical miles

[ ] 50 kilometres

[ ] 60 nautical miles

[ ] 45 nautical miles

[ ] 40 kilometres

18)

Question 18

Speed and Distance

It takes you 5 hours to travel 100 nm

What was your speed in knots?

Answer by ticking the correct answers

[ ] 15 knots

[ ] 10 knots

[ ] 25 knots

[ ] 20 knots

19)

Question 19

Distance, Speed and Time

Start Position is   33O 30' South   018O 10' East

End Position is   34O 50' South   018O 10' East

Start time is 08:00 and the vessel is steaming South at 8 knots

What time will it arrive at the end position?

Answer by ticking the correct answers

[ ] 18:00

[ ] 18:30

[ ] 15:00

[ ] 15:30

20)

Question 20

Speed, Distance and Time

The limit of your EEZ (exclusive economic zone) is 200nm from the harbour entrance.

You vessel enters your EEZ at 0130 and is steaming at 10 knots.

At what time will they arrive at the harbour?

Answer by ticking the correct answers

[ ] 21:30

[ ] 20:00

[ ] 21:00

[ ] 20:30