

ACADEMIC YEAR 2023 - 2024

Program	Year	Semester	Paper
DO	2023-2024	1	5
MODULE NAME:	METEOROLOGY AND OCEANOGRAPHY I		
MODULE CODE:	DMETOI	EXAM DATE:	27.12.2023
TEACHER'S NAME:	Arife Tugsan Isicak Colak	DURATION:	90m

Questions to be answered on: <input checked="" type="checkbox"/> Space provided on the question paper	Allowed requirements: Pen, Pencil & Calculator	Number of pages (Incl. cover page):
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Points of attention:

- For each question, the maximum earned points are mentioned between brackets at the end of each question.
- Write very clearly! Answers that are not readable are not marked and don't get points!
- Make sure your answers are written to the point.
- All answers should be written **in English**.
- Write all the answers in **blue or black pen only**.
- Use the **pencil** only for **diagrams & graphs**.
- Show all the calculation steps in the given space.
- When finished submit the question paper, together with the answer scripts and the signed cover page to the invigilator.
- Any cheating/copying may result in an instant failing of the examination.

FINAL MARKS		
STUDENT NAME:		40
STUDENT ID:		10

Number of answer scripts:.....

Invigilator:.....

Student's signature:

Time of receipt:.....

QUESTIONS

1. Describe the types of precipitation. (4)

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2. Clouds are most generally classified by height. List the major height categories and the cloud types associated with each (6)

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3. Write the following terminology about humidity and condensation (4)

a., Water Vapour:

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b. Saturated

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c. Dew Point:

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d. Relative Humidity:

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4. In order to determine the temperature, humidity, wind, and pressure on board, which instruments are used? (4)

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5. To understand the state of the weather and sea state, what meteorological parameters are recorded hourly in our deck logbook? (4)

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6. How does the water cycle work? What are the processes of cloud formation on Earth, Explain Latent Heat(4)
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7. The atmosphere contains internal energy, which is the total energy stored in its molecules. **Heat**, on the other hand, *is energy in the process of being transferred from one object to another because of the temperature difference between them*. After heat is transferred, it is stored as internal energy. Regarding this information write how heat is transferred by (3)

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8. The transfer of heat by the mass movement of a fluid (such as water and air) is called **convection**. This type of heat transfer takes place in liquids and gases because they can move freely and it is possible to set up currents within them, How the big air masses transferred by convection? (3)

9. The transfer of heat from molecule to molecule within a substance is called conduction. Heat transferred in this fashion always flows from *warmer to colder* regions. Generally, the greater thedifference, the more rapid the heat transfer.(2)

10. Regarding the below table, Set a relation between Relative Humidity and time of a day? When the relative humidity reaches the maximum and minimum value? When you are onboard, why knowing relative humidity is important? (2+2+2)

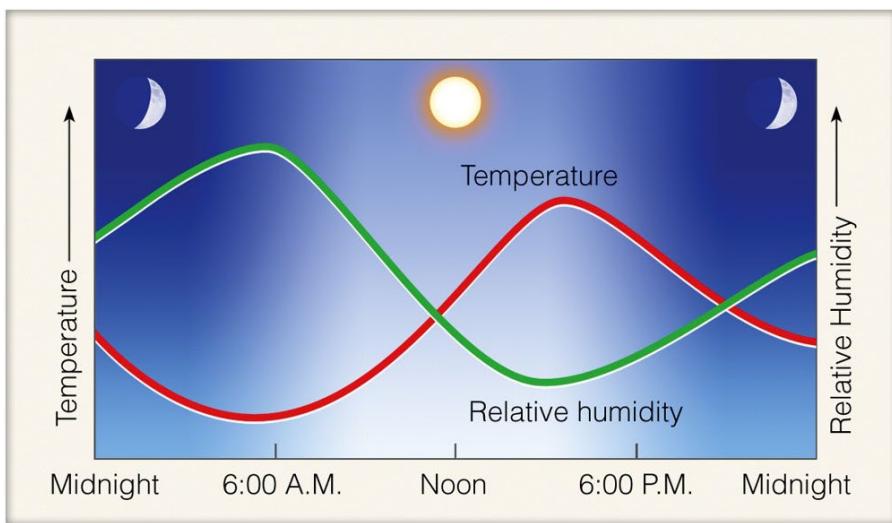


Table Source: Essential of Meteorology

