



Ocean University of Sri Lanka

Aptitude Test 2025/26

BSc in Oceanography



NIC Number

Index Number

Time Allowed: 2 hours

Date: 30/08/2025

Instructions:

- Attempt all the questions
- There are 4 sections in this test carrying equal weight
- Total questions for each section are indicated at the beginning of the section
- Students may take 30 minutes for each section and spend equal effort to all parts
- Only one answer is allowed for each question
- Underline and fill in blanks are the most appropriate answer
- Use a dark pencil or ball point pen (blue/black) to mark the answers
- No marks will be deducted for wrong answers
- Calculators are not allowed
- Return the question paper along with the answers

SECTION-A: GENERAL KNOWLEDGE – 25 QUESTIONS

Underline the correct answer

- 01) Which country has the highest life expectancy?
a) Japan b) Hong Kong c) Finland d) Iceland
- 02) What is the 4th letter of the Greek alphabet?
a) Alpha b) Gamma c) Delta d) Beta
- 03) What company was initially known as "Blue Ribbon Sports"?
a) Nike b) Puma c) Adidas d) NBC Sports
- 04) What is the world's largest retailer?
a) Walmart b) Zara c) Amazon d) Tesco
- 05) How many players are there on a soccer team on the field?
a) 10 b) 11 c) 12 d) 9
- 06) What is acrophobia a fear of?
a) Length b) Heights c) Width d) Area
- 07) What city is known as "The Eternal City"?
a) Kremlin b) Venice c) Rome d) Bombay

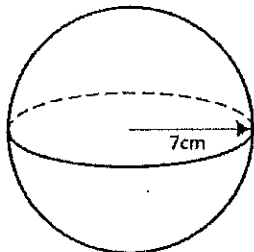
- 08) What is the largest Spanish-speaking city in the world?
 a) Tel Aviv b) Delhi c) Mexico City d) Paris
- 09) Which river flows through the Grand Canyon?
 a) Congo river b) Colorado river c) Yangtze river d) Brahmaputra river
- 10) What is the smallest U.S. state by area?
 a) Rhode Island b) Illinois c) Chicago d) Indiana
- 11) Which is the only sea without any coastlines?
 a) Mediterranean Sea b) Red Sea c) Sargasso Sea d) South China Sea
- 12) How many elements are in the periodic table?
 a) 118 b) 112 c) 108 d) 115
- 13) What is the process by which a liquid changes into a gas?
 a) Photosynthesis b) Evaporation c) Precipitation d) Transpiration
- 14) What is the scientific theory that explains the origin of the universe?
 a) Plate Tectonic Theory b) Set theory c) Big Bang Theory d) Cognitive Learning Theory
- 15) What is the primary gas found in the Earth's atmosphere?
 a) Nitrogen b) Helium c) Oxygen d) Carbon Dioxide
- 16) Who was the first American woman in space?
 a) Marie Curie b) Sally Ride c) Kayla Wood d) Victoria Barnes
- 17) What year was the United Nations established?
 a) 1945 b) 1944 c) 1947 d) 1942
- 18) How many colors are in a rainbow?
 a) Seven b) Five c) Eight d) Nine
- 19) What is the magnitude of the earthquake which hit the Russia's Eastern coast?
 a) 8.3 b) 8.4 c) 8.8 d) 8.5
- 20) What musician was awarded the first gold record?
 a) Perry Como b) Lise Meitner c) Bob Marley d) William George
- 21) What movie won an Oscar in 2025?
 a) Oppenheimer b) Nomadland c) Anora d) Jurassic Park
- 22) Who won the test cricket world cup in 2025?
 a) India b) New Zealand c) Australia d) South Africa

- 23) Where did sushi originate?
 a) Vietnam b) Hong Kong c) China d) Japan
- 24) Which popular spice is native only to Sri Lanka?
 a) Cardamom b) Cinnamon c) Pepper d) Cloves
- 25) What was the magnitude of the June 2025 confrontation between Israel and Iran often called?
 a) One week war b) Two days war c) 12 days war d) Two-week war

SECTION-B: INTELLIGENCE TEST – 25 QUESTIONS

Underline the correct answer

- 01) How many minutes are in a full week?
 a) 10,180 b) 10,080 c) 11,320 d) 9,340
- 02) What number should come next in this series 1, 2, 4, 7, 11, 16, ...
 a) 20 b) 22 c) 18 d) 21
- 03) Find out the missing number in the sequence: 8, 12, 20, 32, ... , 68, 92
 a) 40 b) 48 c) 52 d) 44
- 04) What is the approximate volume of the sphere ($r = 7$ cm)?



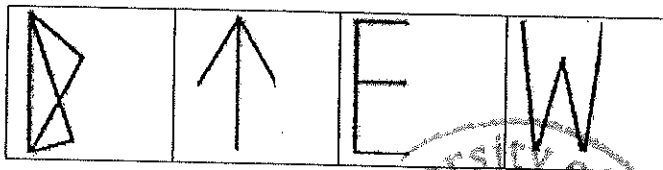
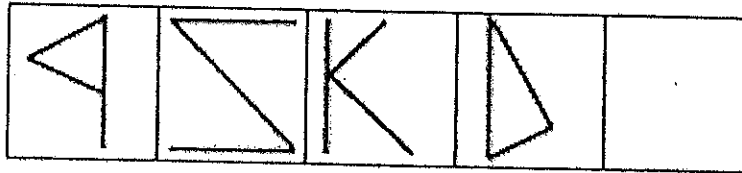
- a) 1437 cm³ b) 1442 cm³
 c) 1247 cm³ d) 1324 cm³

- 05) There were 3 carrots and 4 apples in the basket. The boy took one carrot. How many fruits are left in the basket?
 a) 2 b) 4 c) 6 d) 5
- 06) Three brothers, each have two sisters. How many children are in the family?
 a) 8 b) 9 c) 5 d) 7
- 07) How many corners will the circle have if it is cut in half?
 a) 0 b) 2 c) 1 d) 3
- 08) If < represent minus (-), > represents plus (+), = represents multiply (*) and # represents divided (÷), the value of statement of $27 < 9 = 2 > 81 \# 9$
 a) 18 b) 27 c) 9 d) 24
- 09) Which fraction is the biggest?
 a) 1/2 b) 4/12 c) 4/6 d) 2/5

10) The price of three mangoes and four oranges are Rs.55.00. The price of four mangoes and four oranges is Rs.48.00. What is the price of one mango and one orange?

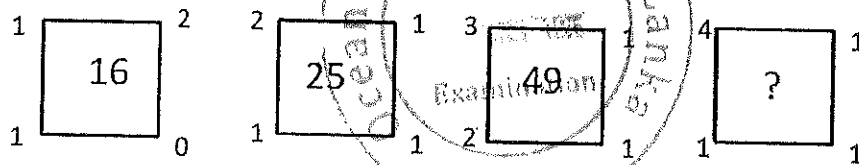
- a) 15 ^{58.00} b) 20 c) 10 d) 25

11) What is the missing pattern?



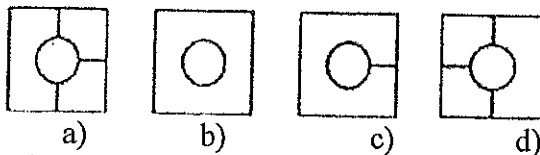
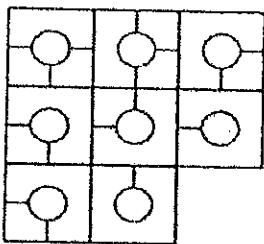
- a) b) c) d)

12) What is the missing number?



- a) 25 b) 36 c) 42 d) 49

13) What is the next figure?



- a) b) c) d)

- 23) A car travels at a speed of 40 mph over a certain distance and then returns over the same distance at a speed of 60 mph. What is the average speed for the total journey?
- a) 50 mph b) 48 mph c) 60 mph d) 40 mph
- 24) A man builds a property and his son gets 1/3 of it. His daughter gets worth Rs. 2500.00 and wife gets 7500.00. What did the son get?
- a) Rs. 5000.00 b) Rs. 7500.00 c) Rs. 8000.00 d) Rs. 10,000.00
- 25) Amal is taller than Kamal. Kamal is taller than Nimal. Who is the shortest?
- a) Amal b) Kamal c) Nimal d) Cannot tell

SECTION-C: SUBJECT GENERAL KNOWLEDGE – 25 QUESTIONS
Underline the correct answer

- 01) What produces the majority of the breathable air on earth? ()
- a) Oceans b) Land c) Trees d) Ice
- 02) What is the driving force of surface circulation?
- a) Wind b) Waves c) Current d) Solar radiation
- 03) What is the extreme weather event?
- a) Landslide b) Tsunami c) Cyclone d) Earthquake
- 04) What types of waves travel within the water column?
- a) Gravity waves b) Seismic waves c) Internal waves d) Capillary waves
- 05) What is the average salinity of ocean water?
- a) 30 psu b) 35 psu c) 25 psu d) 40 psu ()
- 06) What causes tides?
- a) Wind b) Waves c) Gravitation d) Tsunami
- 07) What is the deepest part of the ocean?
- a) Mariana Trench b) Mid-Atlantic Ridge c) Challenger Deep d) Pacific Basin
- 08) Which current is the strongest and fastest in the world?
- a) Canary Current b) Gulf Stream c) Kuroshio Current d) Antarctic Circumpolar Current
- 09) Organisms that are float in the water column in the Ocean are called,
- a) Benthos b) Nekton c) Plankton d) Fish

- 10) What type of sonar is commonly used to measure the depth of water?
 a) Side Scan Sonar b) Echosounder c) Wire drag d) Sub bottom profiler
- 11) Where is the location of Monazite deposit in Sri Lanka?
 a) Pulmudai b) Vakarei c) Panama d) Beruwala
- 12) What is the most important factor affecting where marine organisms live?
 a) Ocean salinity b) Ocean depth c) Availability of sunlight d) Human activity
- 13) What is the process by which deep-sea organisms produce energy without sunlight?
 a) Photosynthesis b) Respiration c) Fermentation d) Chemosynthesis
- 14) What is the most dangerous current in the Ocean?
 a) Tidal currents b) Longshore currents c) Rip currents d) Surface currents
- 15) Which zone has the greatest biodiversity in the ocean?
 a) Abyssal zone b) Intertidal zone c) Bathypelagic zone d) Hadal zone
- 16) Which equipment is used to measure vertical temperature of the Ocean?
 a) CTD b) ADCP c) Echosounder d) Thermometer
- 17) What is the name of atmospheric cell bringing warmer air from equator?
 a) Hadley cell b) Ferel cell c) Polar cell d) Equator cell
- 18) What is the role of internal waves?
 a) Circulation b) Nutrient distribution c) Tide generation d) Climate change
- 19) Which of the following is the flattest area of the ocean floor?
 a) Continental shelf b) Abyssal plain c) Mid-ocean ridge d) Seamounts
- 20) What process creates new oceanic crust?
 a) Subduction b) Seafloor spreading
 c) Sedimentation d) Erosion
- 21) What is the primary cause of ocean acidification?
 a) Excess carbon dioxide b) Global warming c) Sea level rise d) El-Nino

- 22) Salinity higher in polar regions, what is the reason for that?
 a) Circulation b) Evaporation c) Mixing d) Freezing
- 23) What is the primary force that drives boundary currents?
 a) Tidal b) Coriolis c) Wind d) Gravity
- 24) What affects the solubility of gases in seawater?
 a) Temperature and salinity b) Wind and currents c) Tides and waves d) Sunlight and depth
- 25) What is the main source of salts in the ocean?
 a) Marine organisms b) Seafloor vents c) Weathering of rocks on land d) Melting glaciers

SECTION-D: ENGLISH KNOWLEDGE – 25 QUESTIONS

PART A – Underline the meaning which is most appropriate to the context in which the word in bold print appears in the sentences.

- 01) They look after (treat, protect, see) their grandmother well.
- 02) The whole family objected (refused, aimed, protested) when my brother and I said we were going to spend our New Year holidays with our friends in Kandy.
- 03) Motorists who flout (break, do not know, are ignorant of) road rules will be fined heavily by the traffic police.
- 04) Though the people often enjoy full political liberty (influence, freedom, benefit) there exist at the same time a great many strange practices.
- 05) Cats differ enormously (mainly, very much, too much) from dogs in how they express their love

PART B - Underline the option that best expresses the meaning of each of the sentences given below

- 06) Mr. Devendra, whom I introduced to Kamal, is an engineer.
 a) Kamal is an engineer.
 b) Mr. Devendra is an engineer.
 c) An engineer introduced Kamal to me.
 d) Mr. Devendra introduced Kamal to me.
- 07) There are hardly any biscuits left in the tin.
 a) There are hard biscuits left in the tin.
 b) There are only a few biscuits left in the tin.
 c) Some biscuits are in the left tin.
 d) There are no biscuits left in the tin.

- 08) No sooner had I reached the railway station then the train came.
- The train had come before I reached the railway station.
 - The train didn't come soon although I went to the station.
 - I reached the station just before the train arrived.
 - I had not reached that station, but the train came.
- 09) We rang the bell again in case they hadn't heard it the first time.
- They heard the bell the first time we rang it.
 - We rang the bell twice and they heard it.
 - Thinking that they would not have heard the first bell, we rang it again.
 - Though we rang the bell twice, they didn't hear.
- 10) Had his bus been on time, he would not have missed the interview.
- The bus was punctual, and he went for the interview.
 - Although the bus was late, he was able to go for the interview.
 - The was punctual but he missed the interview.
 - He didn't face the interview as the bus was late

PART C - Read the following newspaper article and fill in the blanks using the words given in the box. There is an extra word. The first one is done for you.

(out / at/ of / on /to /into)

A team (11)..... Japanese experts that conducted an inspection (12) a disaster affected area due to a garbage dump, has found (13) a high density of Methane that exists there amounting (14) 30 percent. They further warned that, even a tiny spark (15) the dump could flame into a massive destruction

PART D- Underline the most appropriate verb that goes with the noun in bold print in the following sentences.

- Land ownership (made, formed, **coursed**) the basic of their wealth and power.
- Australia (said, stated, **declared**) its support for the agreement.
- I cannot find words adequate to (state, say, **express**) our gratitude.
- The government must (make, take, **have**) action to stop this trade
- I am anxious to (repair, mend, **rectify**) this situation

