



Ocean University of Sri Lanka
Aptitude Test 2025/2026
B.Sc. in Coastal and Marine Resources
Management



NIC Number: Index No.:

Time Allowed: Two (02) hrs. Date : 24/08/2025

Instructions:

- Answer all the questions on this paper itself
- Use a dark pencil/black or blue pen to mark the answers
- Calculators are not allowed

SECTION A-GENERAL KNOWLEDGE -25 QUESTIONS

1. Who has won the highest run scorer of orange-cap 2025 award in Indian premier league?
(i) Mitchell Marsh (ii) Virat Kohli,
(iii) Suryakumar Yadav (iv) Sai Sudharsan
2. What is the longest underground railway tunnel in Sri Lanka?
(i) Nawalapitiya (ii) Kakanadura
(iii) Balana, Kadugannawa (iv) Rabukkana
3. What is the anniversary celebrated in the engineering service sector in Sri Lanka?
(i) 75 (ii) 65
(iii) 85 (iv) 70
4. Who was the Sri Lankan Nobel prize winner in 2007?
(i) Professor Mohan Munasinghe (ii) Michael Ondaatje
(iii) Dr Piyumi Wijesekara (iv) Asha De Vos
5. What is the Global Human Development Index (HDI) rank of Sri Lanka in 2025?
(i) 93 (ii) 86
(iii) 89 (iv) 85
6. Which country is the largest oil producer in the world?
(i) Iran (ii) Qatar
(iii) Russia (iv) U.S. A
7. Who directed the film *Sátántangó*, one of the longest films ever made?
(i) Bela Tarr (ii) James Cameron
(iii) Stephen Spielberg (iv) Cristopher Nolan
8. Where is the SAARC Forestry Centre located?
(i) Pakistan (ii) India
(iii) Bhutan (iv) Bangladesh

9. If you dissolve 32g of CuSO_4 in 100ml of distilled water, what is the concentration of the solution? (molar mass of Cu=64, S=32, O=16)
- (i) 5 moldm^{-3} (ii) 0.5 moldm^{-3}
 (iii) 2 moldm^{-3} (iv) 0.2 moldm^{-3}
10. Which of the following is NOT a major challenge faced by the Sri Lankan marine fisheries sector?
- (i) A lack of consumer demand for fish products (ii) Poor quality of catch due to inadequate post-harvest handling
 (iii) Depletion of fish stocks due to overfishing (iv) The impact of climate change on marine ecosystems
11. Which of the following fishing gears is considered as a traditional gear
- (i) Purse seine (ii) Beach seine
 (iii) Trawl net (iv) Long line
12. What is the INCORRECT statement about microplastics
- (i) Microplastics are small plastic particles less than 5 millimeters in size. (ii) Microplastics can be absorbed by marine organisms and enter the food chain.
 (iii) Microplastics are not biodegradable and can persist in the environment for a long time. (iv) Microplastics are only found in aquatic environments.
13. Which of the following is the primary cause of tides on Earth?
- (i) Earth's rotation (ii) The gravitational pull of the Moon and Sun
 (iii) Wind patterns on the ocean surface (iv) Ocean currents
14. Select the CORRECT answer
- (a) Oil spills only affect animals live in ocean
 (b) Impacts of an oil spill may last about 2-3 years maximum
- (i) a and b incorrect (ii) a and b correct
 (iii) a correct and b incorrect (iv) a incorrect and b correct
15. Which of the following is a renewable resource obtained from the ocean?
- (i) Mn nodules (ii) Fish
 (iii) Natural gas (iv) Oil
16. Which of the following is a depositional coastal landform?
- (i) Wave-cut platform (ii) Sea stack
 (iii) Sea cliff (iv) Spit
17. Which of the following is NOT a consequence associated with global warming?
- (i) More extreme weather like droughts, heat waves, and hurricanes (ii) Sea level rise in an alarming rate
 (iii) Depletion of ozone layer (iv) Increase in ocean acidification
18. Which of the following sector is the largest contributor to global greenhouse gas emissions?
- (i) Agriculture (ii) Fisheries
 (iii) Energy (iv) Shipping

19. What is Exclusive Economic Zone (EEZ)?
- (i) A zone of international waters where no country has any rights (ii) A sea zone up to 200 nautical miles where a country has rights to explore and use marine resources.
- (iii) A zone that extends 12 nautical miles from the coastline where a country has full sovereignty. (iv) A zone where only military activities are allowed by coastal states.
20. What is the name of the international convention that controls marine pollution from ships?
- (i) Paris Agreement (ii) MARPOL
(iii) SOLAS (iv) UNFCCC
21. Which of the following is NOT a designated Ramsar wetland in Sri Lanka?
- (i) Madu ganga (ii) Wilpaththu
(iii) Yala (iv) Vankalai
22. What is the primary bird migratory season in Sri Lanka?
- (i) November to April (ii) May to September
(iii) January to May (iv) March to November
23. What is the primary function of a Large Language Model (LLM) like ChatGPT?
- (i) To perform complex mathematical calculations faster than a calculator. (ii) To control robots and automate physical tasks.
- (iii) To store large amounts of data in a compressed format. (iv) To understand and generate human-like text based on input prompts
24. Which of the following is an example of a cloud storage service?
- (i) Netflix (ii) Wikipedia
(iii) Zoom (iv) Google Drive
25. What is the opportunity cost of a decision?
- (i) The total money spent on the decision. (ii) The value of the next best alternative given up.
- (iii) The profit earned from the decision. (iv) The time taken to make the decision.

SECTION C-GENERAL ENGLISH

01 Underline the most appropriate word from those given in brackets

- (i) Mangroves, which (*acts/act/acting*) as natural barriers against coastal erosion, are increasingly threatened by deforestation.
- (ii) The rapid depletion of fish stocks has raised concerns about the (*sustainability/ sustained/ sustainment*) of global fisheries, urging stricter regulations.
- (iii) The government's new policy aims to (*lessen/ lesson/ lessor*) the impact of plastic pollution on marine ecosystems by banning single-use plastics.
- (iv) Overfishing not only (*affects/effects/impacts*) biodiversity but also jeopardizes the livelihoods of coastal communities.
- (v) Scientists warn that coral reefs, often called the "rainforests of the sea," (*is/are/be*) dying at an alarming rate due to climate change.

(0.5 x 05 = 2.5 marks)

02 Fill in the blank with the correct form of the verb given in the brackets.

- (i) By the time the conservation policy takes effect, many marine species
..... (disappear) from this region permanently.
- (ii) The research team..... (study) the effects of ocean acidification on coral reefs for the past five years
- (iii) If she (practice) harder last year, she might have made the national basketball team.
- (iv) Mangrove forests (provide) critical coastal protection long before scientists understood their full ecological value
- (v) Not only the players but also the coach (be) required to attend the disciplinary hearing.

(01 x 05 = 05 marks)

03 Write the correct letter of the word in the box next to its meaning. The first one has been done for you.

- E.g. The process by which green plants use sunlight to make food
- (i) The restoration of friendly relations after conflict
 - (ii) A process of transformation, often referring to a life cycle change
 - (iii) The branch of philosophy concerned with beauty, art, and taste
 - (iv) A practical approach to problems or situations based on experience
 - (v) A feeling of intense happiness or pleasure

F

A	Pragmatism	D	Aesthetics
B	Euphoria	E	Metamorphosis
C	Reconciliation	F	Photosynthesis

(01 x 05 = 05 marks)

04 Fill in the blank with suitable preposition given.
at, by, in, on, with, for, during, through

The seminar on environmental sustainability was held (i)..... the university campus last Friday. Experts (ii)..... various fields gathered to discuss strategies (iii)..... reducing carbon emissions. The event was organized by the Department of Environmental Science, and it attracted a large number of students. Throughout the day, participants engaged (iv)..... discussions and hands-on workshops aimed (v).....promoting green practices.

(0.5 x 05 = 2.5 marks)

05 Read the passage and answer the questions

Individuals are not stable things, they are fleeting. Chromosomes too are shuffled into oblivion, like hands of cards soon after they are dealt. But the cards themselves survive the shuffling. The cards are the genes. The genes are not destroyed by crossing-over, they merely change partners and march on. Of course they march on. That is their business. They are the replicators and we

are their survival machines. When we have served our purpose, we are cast aside. But genes are denizens of geological time: genes are forever.

Genes, like diamonds, are forever, but not quite in the same way as diamonds. It is an individual diamond crystal that lasts, as an unaltered pattern of atoms. DNA molecules don't have that kind of permanence. The life of any one physical DNA molecule is quite short—perhaps a matter of months, certainly not more than one lifetime. But a DNA molecule could theoretically live on in the form of copies of itself for a hundred million years. Moreover, just like the ancient replicators in the primeval soup, copies of a particular gene may be distributed all over the world. The difference is that the modern versions are all neatly packaged inside the bodies of survival machines.

What I am doing is emphasizing the potential near-immortality of a gene, in the form of copies, as its defining property. To define a gene as a single cistron is good for some purposes, but for the purposes of evolutionary theory it needs to be enlarged. The extent of the enlargement is determined by the purpose of the definition. We want to find the practical unit of natural selection. To do this we begin by identifying the properties that a successful unit of natural selection must have. In the terms of the last chapter, these are longevity, fecundity, and copying-fidelity. We then simply define a 'gene' as the largest entity which, at least potentially, has these properties. The gene is a long-lived replicator, existing in the form of many duplicate copies. It is not infinitely long-lived. Even a diamond is not literally everlasting, and even a cistron can be cut in two by crossing-over. The gene is defined as a piece of chromosome which is sufficiently short for it to last, potentially, for long enough for it to function as a significant unit of natural selection

The selfish gene by Richard Dawkins (1976) –

- (i) What does the author say is the main purpose of genes? (01 mark)
.....
.....
- (ii) How long does a physical DNA molecule typically last, according to the author? (01 mark)
.....
.....
- (iii) What three features must a successful gene (as a unit of natural selection) have? (01 mark)
.....
.....
- (iv) How does the author define the gene? (01 mark)
.....
.....
- (v) Select the words from the passage that match with the following meanings
- (a) To give special importance or attention to something (0.5 mark)
.....
- (b) The state of being forgotten, destroyed, or no longer existing (0.5 mark)
.....

06 Rewrite the shuffled sentences in the correct order

(i) we / the / at / lunch / will / tomorrow / park / meet/for

(ii) always / birds / in / migrate / the / winter / south

(iii) in / a / meeting / manager / the / is / the / currently

(iv) at / the / she / arrived / airport / at / 9 am

(v) plays / every / soccer / he / weekend / with / his / friends

(01 x 05 = 05 marks)

SECTION D- IQ TEST- 25 QUESTIONS

01. Which number should come next in the series?

12, 36, 324,

(i) 575

(ii) 1296

(iii) 5184

(iv) 26244

02. Chairs are arranged around one of the round tables with equal distance. No 9th chair has kept in front of the 3rd number chair. How many chairs are around the table?

(i) 12

(ii) 6

(iii) 9

(v) 15

03 24th of April was Tuesday in year 2015. When is the 24th of April in 2020?

(i) Sunday

(ii) Tuesday

(iii) Saturday

(iv) Thursday

04 In a class of 40 students, 25 students prefer to watch both Sinhala and English films, 8 students prefer to watch only Sinhala films, and 2 students do not like to watch any films. How many students in the class prefer to watch either Sinhala or English films?

(i) 5

(ii) 38

(iii) 25

(iv) 23

05 An army camp has enough food for 25 soldiers for 18 days. After 6 days, five soldiers went on leave due to illness. For how many more days will the remaining food be sufficient?

(i) 20 days

(ii) 15 days

(iii) 5 days

(iv) 12 days

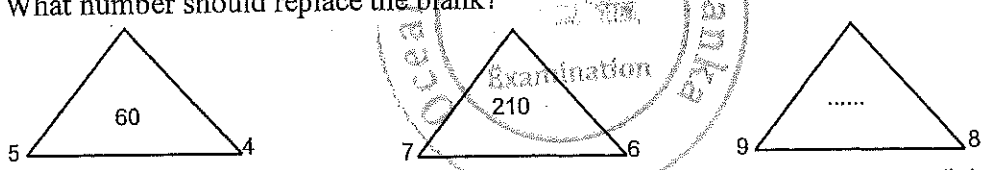
06 Three bells ring together once at 5:30 a.m. in the church. Then, the first bell rings every 3 hours, the second bell rings every 4 hours, and the third bell rings every 6 hours. At what time will all three bells ring together again?

(i) 5.30 p.m.

(ii) 6.30 p.m.

(iii) 3.30 p.m.

(iv) 1.30 p.m.

- 07 When a mirror shows the time as 8:45, what is the actual correct time?
 (i) 4.58 (ii) 3.15 (iii) 5.48 (iv) 11.45
- 08 Which number should come next in the series?
 2/8, 6, 98,
 (i) 190 (ii) 608 (iii) 1570 (iv) 192
- 09 Nimal travels $\frac{1}{5}$ of the distance by bicycle, $\frac{1}{4}$ by bus, $\frac{1}{3}$ by train and the remaining distance on foot. If he traveled 1.3 km on foot, what is the total distance he traveled?
 (i) 60km (ii) 6 km (iii) 20 km (iv) 32 km
- 10 White, yellow, red, and blue flags are arranged in a repeating sequence. What is the color of the 62nd flag?
 (i) White (ii) Red (iii) Yellow (iv) Blue
11. A cube with a side length of 25 cm is painted blue on all its outer surfaces. Then it is cut into smaller cubes, each with a side length of 5 cm. How many of these smaller cubes have blue paint on exactly one face?
 (i) 54 (ii) 27 (iii) 32 (iv) 36
12. A tourist group consists of 124 tourists. Among them, 108 can speak English, 99 can speak Japanese, 100 can speak French, and 104 can speak Hindi. What is the minimum number of tourists who can speak all four languages?
 (i) 29 (ii) 39 (iii) 73 (iv) 99
13. What number should replace the blank?

 (i) 212 (ii) 371 (iii) 504 (iv) 236
14. If the letters G, B, E are written as S, I, O respectively, how should the letters J, A, D be written?
 (i) Y,G,M (ii) T,B,H (iii) H, B, T (iv) X, F, L,
- 15 A train with a length of 100 m is running at a speed of 60 m/s. It passes over a bridge in 30 seconds. What is the length of the bridge?
 (i) 1700m (ii) 500m (iii) 300m (iv) 150m
16. A box contains 31 socks: 13 are black, 12 are white, and 6 are blue. What is the minimum number of socks that must be taken out to guarantee getting a pair of black socks?
 (i) 20 (ii) 19 (iv) 18 (v) 6

17.

11	66	5
10	66	3
15	?	7

- (i) 64 (ii) 151 (iii) 80 (iv) 100

18 My age is now three times greater than my sister's age. After six years my age is twice than my sister's age. What is my age now?

- (i) 18 (ii) 12 (iii) 6 (iv) 15

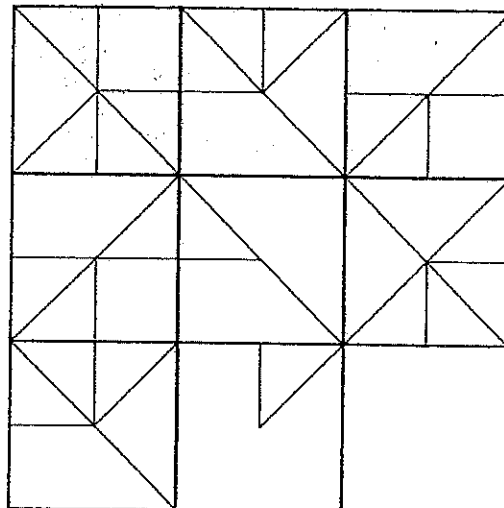
19 A person borrows Rs. 8,000 at 2% simple interest per month. He repays Rs. 9,120 at the end of the period. Find the duration of the loan in months.

- (i) 12 months (ii) 9 months
 (iii) 7 months (iv) 8 months

20 The price of a pen is Rs. 4 more than the price of a pencil. If 3 pens and 5 pencils together cost Rs. 76, find the price of one pen and one pencil.

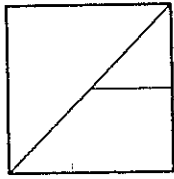
- (i) Pen Rs. 8/- & Pencil Rs. 16/- (ii) Pen Rs. 12/- & Pencil Rs. 8/-
 (iii) Pen Rs. 20/- & Pencil Rs. 19/- (iv) All incorrect

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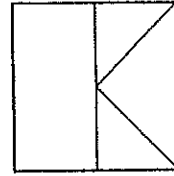


Which is the missing tile?

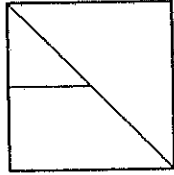
(i)



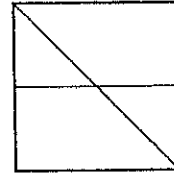
(ii)



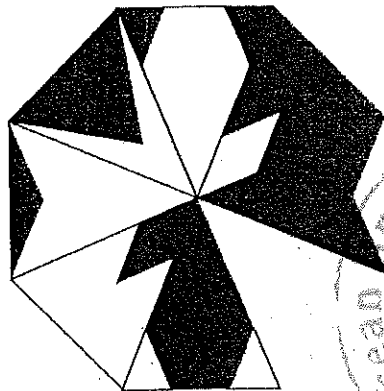
(iii)



(iv)

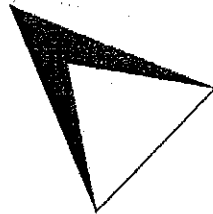


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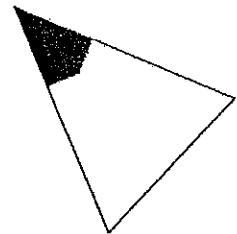


Which is the missing segment?

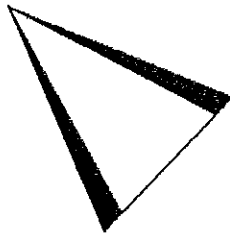
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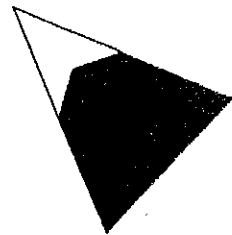
(ii)



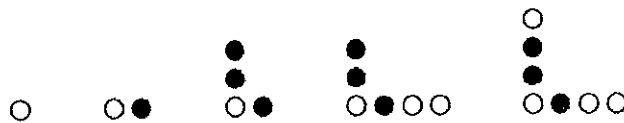
(iii)



(iv)

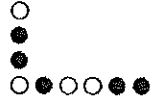


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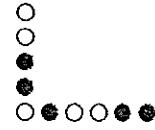


What comes next?

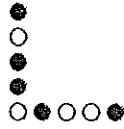
(i)



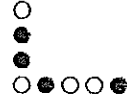
(ii)



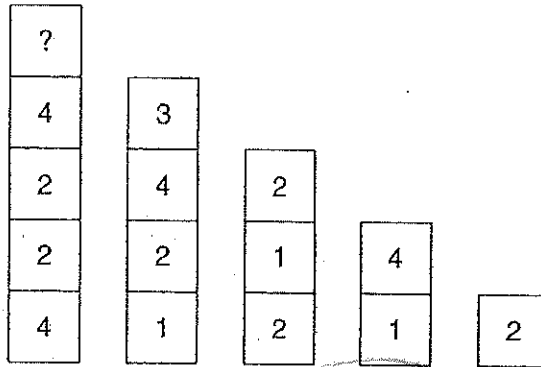
(iii)



(iv)



24



What number should replace the question mark?

(i) 6

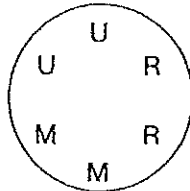
(ii) 5

(iii) 4

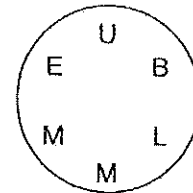
(iv) 3

25. Which circle cannot be made into a word?

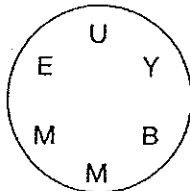
(i)



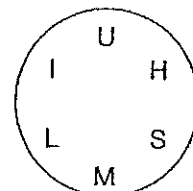
(ii)



(iii)



(v)



***** End of the question paper *****