



**Ocean University of Sri Lanka**  
**Aptitude Test 2023/2024**  
**B.Sc. in Coastal and Marine Resources**  
**Management**



NIC Number:

Index No.:

Time Allowed: Two (02) hrs.

Date : 03/12/2023

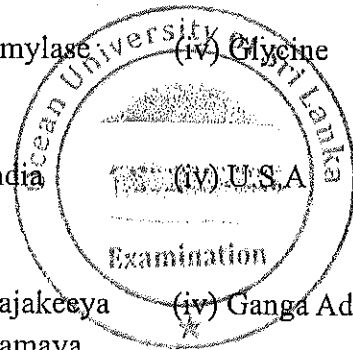
**Instructions:**

- Answer all the questions on this 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 won the cricket world cup in the year 2023?  
(i) India                      (ii) New Zealand              (iii) South Africa              (iv) Australia
2. What is the name of research and survey ship anchored in Sri Lanka recently?  
(i) Express of China              (ii) YUE Dian 54              (iii) Shi Yan 6              (iv) Guang Zhou Wan
3. What is the landed space craft by India for lunar exploration mission?  
(i) Chandrayaan 1              (ii) Chandrayaan 2              (iii) Aryabhata              (iv) Chandrayaan 3
4. Which organization involves to the Israel -Palestine conflict?  
(i) Al-Shabaab                      (ii) Hamas                      (iii) Fatah                      (iv) Al-Qaeda
5. Which event was won by Tharushi Karunaratne at Asian Athletic Championship?  
(i) 100 m                      (ii) 400 m                      (iii) 800-m                      (iv) Hurdles
6. When did Sri Lanka implement the Ramsar convention?  
(i) 1988                      (ii) 1987                      (iii) 1978                      (iv) 1990
7. What is the total population in Sri Lanka according to the Central Bank report in 2022?  
(i) 23.1 million                      (ii) 22.2 million                      (iii) 23 million                      (iv) 21.9 million
8. Who obtained the highest number of patents for his own inventions?  
(i) Abert Einstein                      (ii) Benjamin Francklin  
(iii) Thomas Alwa Edison                      (iv) Earnest Rotherham

9. What is the "SI unit" of temperature?  
 (i) Fahrenheit (ii) Celsius (iii) Decibel (iv) Kelvin
10. Which country is hosting the BRICS Summit in 2024?  
 (i) Russia (ii) Brazil (iii) India (iv) South Africa
11. How many electoral districts in Sri Lanka?  
 (i) 25 (ii) 22 (iii) 24 (iv) 23
12. Who won the Nobel Prize for Chemistry in 2023?  
 (i) Katerin Kariko and Drew Weissman (ii) Mounji G. Bawendi, Louis E. Brus and Aleksey Yekimov (iii) Anton Zelinger (iv) Piere Agostini
13. What is the economic growth rate of Sri Lanka at first quarter of 2023?  
 (i) 1% (ii) -3.5% (iii) -11.5% (iv) -5.5%
14. What is the estimated Gross National Production from year 2023 to year 2024  
 (i) 5% (ii) 4% (iii) 2.7% (iv) 6.3%
15. Who was the first Governor of Sri Lanka?  
 (i) Fedrick North (ii) Willium Gregory (iii) Robert Mannin (iv)Thomes Maitland
16. Who was the Sri Lankan author, won the Booker award in 2022?  
 (i) Shehan weerasekara (ii) Kathyana Amarasinghe (iii) Shehan Karunathilake (iv) Eric Elleyaparachchi
17. What is the simplest form of amino acid?  
 (i) Tri glyceride (ii) Pantothenic acid (iii) Amylase (iv) Glycine
18. Where was COVID 19 Patient 31 found?  
 (i) China (ii) South Korea (iii) India (iv) U.S.A
19. What is the first film produced in Sri Lanka?  
 (i) Kadawunu Poronduwa (ii) Ranmuthu Duwa (iii) Rajakeeya Wickramaya (iv) Ganga Addara
20. Where is Sri Lanka Nanotechnology Center located?  
 (i) Homagama (ii)Delgoda (iii) Nugegoda (iv) Gampaha



21. What is extracted from the Pulmoddai Ilmenite deposit?  
 (i) Feldspar (ii) Titanium (iii) Mica (iv) Silica
22. Who won the Golden Ball award at the FIFA world cup in 2023?  
 (i) Diego Forlán (ii) Luka Modrić (iii) Kylian Mbappe (iv) Lionel Messi
23. What is the NASA mission on the Moon 2025?  
 (i) Artemis 3 (ii) Voyager 1 (iii) Apollo 11 (iv) Luna 10
24. Who has the most followers on Facebook  
 (i) Shakira (ii) Sharuk Khan (iii) Cristiano Ronaldo (iv) Lionel Messi
25. Who is the largest news broadcaster in the world?  
 (i) CNN (ii) BBC (iii) Al Jazeera (iv) Reuters

### SECTION B – SUBJECT KNOWLEDGE

1. The oceans cover about ..... of the Earth surface.  
 (i) 84% (ii) 67% (iii) 71% (iv) 90%
2. Which of the following elements make up 96% of living matter  
 (i) C H K N (ii) O C H N (iii) C O H K (iv) H K N O
3. IUCN Red Data book contain details of  
 (i) Exotic species (ii) Endangered species (iii) Economically important species (iv) All plant and animal species
4. Factors that threatened the sustainability of wetlands presently,  
 (i) Aquaculture expansion (ii) Urbanization and development  
 (iii) Coastal mining (iv) All of the above
5. Which contributes more to global warming?  
 (i) Ammonia (ii) Carbon dioxide (iii) Chlorofluorocarbon (iv) Methane
6. Which is a unicellular fungi?  
 (i) Amoeba (ii) Chlamydomonas (iii) Paramecium (iv) Yeast
7. World Ocean Day is celebrated on;  
 (i) 8<sup>th</sup> of July (ii) 6<sup>th</sup> of August (iii) 8<sup>th</sup> of June (iv) 6<sup>th</sup> of June
8. What type of electromagnetic wave is used in mobile in the present world?  
 (i) X rays (ii) Gamma rays (iii) Micro waves (iv) UV waves

9. The cellular organelle that is present in a plant cell but not in an animal cell;  
 (i) Cell membrane      (ii) Chloroplast      (iii) Nucleus      (iv) Mitochondria
10. Which is a renewable natural resource?  
 (i) Coal      (ii) Natural gas      (iii) Solar Energy      (iv) Iron ore
11. What is the concept of "Marine Spatial Planning" in the context of the blue economy?  
 (i) Sustainable use of marine resources      (ii) Organizing underwater tourism  
 (iii) Navigation routes for ships      (iv) Designing ocean-themed parks
12. Which gas is not known as greenhouse gas?  
 (i) Methane      (ii) Nitrous oxide      (iii) Carbon di oxide      (iv) Hydrogen
13. What does the acronym IUU stand for in the context of fisheries?  
 (i) International Underwater Utilization      (ii) Illegal, Unspecified, and Utilized  
 (iii) Illegal, Unreported, and Unregulated      (iv) International, Unspecified and Unregulated
14. Which of the following plants have respiratory roots?  
 (i) Marshy plants      (ii) Mangroves      (iii) Epiphytes      (iv) Xerophytes
15.  $x \text{Al}_{(s)} + y \text{HCl}_{(aq)} \longrightarrow z \text{AlCl}_{3(aq)} + 3 \text{H}_{2(g)}$   
 In the given chemical equation, what are the values of x, y, and z respectively.  
 (i) 2,3,6      (ii) 2,6,3      (iii) 3,6,2      (iv) 2,6,2
16. Primary production in the ocean is the highest at its; ★  
 (i) Deep water      (ii) Neritic zone      (iii) Surface water      (iv) Vertical column
17. What is the deepest place of the ocean?  
 (i) Mariana Trench      (ii) Japan Trench      (iii) Kurile Trench      (iv) Tonga Trench
18. If the chemical formula of a chloride of element X is  $\text{XCl}$ , what is the chemical formula of carbonate formed by X?  
 (i)  $\text{XCO}_3$       (ii)  $\text{X}_2\text{CO}_3$       (iii)  $\text{X}(\text{CO}_3)_2$       (iv)  $\text{X}_2(\text{CO}_3)_2$
19. Which option is not included in the sustainable development parameters?  
 (i) Gender inequality and diversity      (ii) inter and intergenerational equity  
 (iii) Innovation and infrastructure      (iv) None of the above

20. Of the following environmental issues, which impacts are caused by acid rain  
 A – Loss of aquatic organisms  
 B – Dissolution of coral reefs  
 C – Changes in the composition of gases in the atmosphere  
 D – Leads of eutrophication  
 (i) A, B only                      (ii) B, C only                      (iii) A, B, C only                      (iv) All of the above
21. Which one is not a/an image/graphic file format?  
 (i) PNG                      (ii) GIF                      (iii) TIFF                      (iv) GUI
22. Which one is not a programming language?  
 (i) Pascal                      (ii) Microsoft office                      (iii) Java                      (iv) C++
23. What is the primary purpose of sustainable natural resources management?  
 (i) Exploitation for short-term gain                      (ii) Preservation for future generations  
 (iii) Maximum extraction without regard for environmental impact                      (iv) Export for economic growth
24. How is the hardness of water determined?  
 (i)  $\text{Ca}^{2+}$ ,  $\text{Hg}^{2+}$                       (ii)  $\text{Mg}^{2+}$ ,  $\text{Cl}^-$                       (iii)  $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$                       (iv)  $\text{Mg}^{2+}$ ,  $\text{Cr}^{3+}$
25. Under which of the following agreements was the decision made to limit the global average temperature to well below  $2^\circ\text{C}$ ?  
 (i) Paris agreement                      (ii) Kyoto protocol                      (iii) Montreal protocol                      (iv) Rio summit

**SECTION C – ENGLISH LANGUAGE**

1. Fill in the blanks with a suitable preposition from the list given below. The first one is done for you.

on	to	of	with	in	at	for	by
----	----	----	------	----	----	-----	----

Anna and Jake decided to go on a road trip. They packed their bags and set out early (1) ...in... the morning. Anna was responsible (2)..... navigation, while Jake took care (3)..... driving. They stopped (4)..... a small town for lunch, where they enjoyed a meal (5)..... a cozy cafe. After that, they continued (6)..... their journey, driving through picturesque landscapes. As the sun began to set, they found a nice spot and decided to camp (7)..... the night. They pitched their tent (8)..... a clearing near a beautiful lake. Sitting (9)..... the campfire, they shared stories and laughed throughout the night. The next morning, they woke up early and hiked (10)..... the nearby hills. Overall, it was an amazing trip filled (11)..... adventure.

(0.5 x 10 = 05 marks)

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

One day as Kamala was walking down a foot path and saw an old man (1)..... (try) to load paddy sacks onto a cart. "You (2) ..... (look) tired", Why (3)..... (do) you rest for a while and I (4)..... (help) you". "No thank you" said the old man. "I don't like to (5) ..... (be) a problem to you". "It (6) ..... (do) not matter" said Kamala. She (7)..... (ask) the man (8) ..... (take) a rest for a while. Again the old man protested that he (9)..... (do) not like to trouble Kamala. But she said, "I'd (10)..... (like) help you".

(0.5 x 10 = 05 marks)

3. Re-write the following phrases in the correct order to construct meaningful sentences.

1. invited / to / one / me / of my friends / join / ride / him / for a / bicycle

2. science / today / in / we / an era / are / of / and / living / technology

3. produce / is / crops / rain / necessary / to

4. most / spoken / English / in / world / the language / is / widely / the

5. widen / reading / knowledge / helps / to / our

(1 x 5 = 05 marks)

4. Of the options given below each sentence in bold print, underline the one that best expresses its meaning. (05 marks)

1. **The boy whose sister met with a tragic accident recently went to India last week.**

- (a) The boy met with an accident.
- (b) The boy went to India last week.
- (c) They boy's sister went to India last week.
- (d) The boy and his sister went to India.

2. **Ruwani no longer works here**

- (a) Ruwani didn't work here for a long time
- (b) Ruwani does not work here at the moment.
- (c) Ruwani has been working here for a long time
- (d) Ruwani worked here a long time ago.

3. The news reporters were asked to leave the premises prior to the arrival of the minister.

- (a) The news reporters met the minister when he arrived.
- (b) The news reporters were not allowed to meet the minister.
- (c) The minister asked the news reporters to leave the premises.
- (d) The minister had arrived before the news reporters left the premises.

4. In spite of the pain in her legs, my sister managed to climb the mountain.

- (a) The pain in her legs prevented my sister from climbing the mountain.
- (b) If there had been no pain in her legs, my sister could have climbed the mountain.
- (c) My sister climbed the mountain although she had pain in her legs.
- (d) After climbing the mountain, there was pain in my sister's legs.

5. Mr. Dave had not heard about the cancellation of the meeting until Mr. Jaya informed him.

- (a) Mr. Jaya did not inform Mr. Dave anything about the meeting.
- (b) Mr. Jaya cancelled the meeting but Mr. Dave did not know about it.
- (c) Mr. Dave informed about the cancellation of the meeting to Mr. Jaya.
- (d) Mr. Jaya informed about the cancellation of the meeting to Mr. Dave.

(1 x 5 = 05 marks)

5. Read the notice given below and answer the following questions.

**URBAN DEVELOPMENT AUTHORITY**  
Always Among People!

Janapiyasa Public Mobile Service  
Organized to mark the 40<sup>th</sup> Anniversary of  
The Urban Development Authority.  
On October 18, 2023  
From 9.00 am to 2.00 pm  
At the Urban Development Authority premises  
In New Town, Ratnapura.  
With the patronage of Hon. Patali Champika Ranawaka  
Minister of Mega polis and Western Development.

1. What does Janapiyasa organize a Public Mobile Service?

.....

2. What is the venue of the event?

.....

3. Who is the patron of the event?

.....

4. What is the motto of the Urban Development Authority?

.....

5. Find a similar word from the notice to the following words.

a) Locomotive: .....

b) Community: .....

### SECTION D- IQ TEST- 25 QUESTIONS

1. Which number should come next in the series?  
2, 9, 44, 219, .....

(i) 875                      (ii) 1094                      (iii) 359                      (iv) 499

2. Janaka lay railway track between two given stations in 16 days and Sumith can do the same job in 12 days. With the help of Nimal, they did the job in 4 days. Then, Nimal alone can do the job in,

(i)  $9 \frac{1}{5}$  days    (ii)  $9 \frac{2}{5}$  days    (iii)  $9 \frac{3}{5}$  days    (iv) 10 days

3. In a right-angle triangle, what is the length of the shortest side if the length of the hypotenuse is 65 cm and the length of the second-longest side is 63 cm?

(i) 16 cm                      (ii) 17 cm                      (iii) 20 cm                      (iv) 14 cm

4. In a number  $\frac{1}{6}$  higher than 5 times its  $\frac{1}{9}$ . What is that number?

(i) 54                      (ii) 90                      (iii) 270                      (iv) 18

5. If < represent minus (-), > represents plus (+), = represents multiply (x) and \$ represents divided ( $\div$ ), the value of statement of  $27 > 81 \$ 9 < 6$  is

(i) 6                      (ii) 33                      (iii) 30                      (iv) 54

6. A farm has animal feeds for 15 days to the 25 cows. If number of cows increased to 30 that feeds adequate for,

(i) 9.5 Days                      (ii) 10 Days                      (iii) 12.5 Days                      (iv) 15 Days

7. The mean is equaled to 24 in three numbers. Mean is 22.5 for first two numbers of out of these three numbers. What is the third number,

(i) 72                      (ii) 27                      (iii) 45                      (iv) 46.5

8. A train running at 25 km/ h takes 15 s to pass the 25 m wall. What is the length of the train?

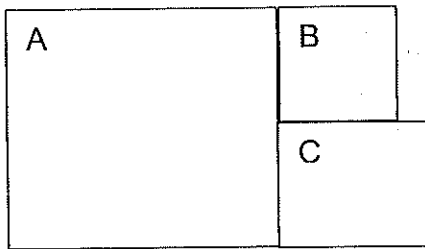
(i) 200 m                      (ii) 375 m                      (iii) 175 m                      (iv) 225 m

9. If 214454362 represent word "Terrorist", what will be the word "Error" represent,  
 (i) 14454      (ii) 15444      (iii) 14445      (iv) 41544

10. What number should replace the blank?

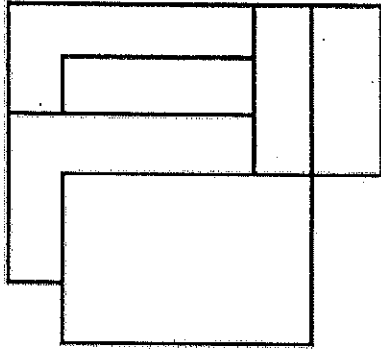
$$10 \begin{array}{|c|} \hline 4 \\ \hline \boxed{20} \\ \hline \end{array} 8 \quad 6 \begin{array}{|c|} \hline 2 \\ \hline \boxed{18} \\ \hline \end{array} 6 \quad 12 \begin{array}{|c|} \hline 8 \\ \hline \boxed{\dots} \\ \hline \end{array} 10$$

- (i) 16      (ii) 15      (iii) 20      (iv) 24
11. Today is Monday. Day after tomorrow is 26 of this month. What is the first day of this month?  
 (i) Wednesday      (ii) Sunday      (iii) Tuesday      (iv) Saturday
12. As shown in the figure, A, B, and C are three square shaped lands. Area of the B is 64 m<sup>2</sup> and length of the one side in Land C is 13 m. What is the area of Land A?



- (i) 329      (ii) 441      (iii) 556      (iv) 832
13. If  $62=86$  and  $41=56$ .  $26 = ?$   
 (i) 29      (ii) 30      (iii) 36      (iv) 40
14. The price of five apples and four oranges are Rs.55/-. The price of four apples and four oranges is Rs.48/-. What is the price of one apple and one orange?  
 (i) Rs.18      (ii) Rs.12      (iii) Rs.7      (iv) Rs. 22
15. Ajith is 20 years old and he is 12 years older than Sujith. Sujith's age is half of the Sunil's age. What is the age difference between Ajith and Sunil?  
 (i) 15 years      (ii) 12 years      (iii) 4 years      (iv) 32 years
16. If the word "MOTHER" wrote as PQWJHT, the word "SISTER" wrote as  
 i) VKVVHT      (ii) VKUVTH      (iii) VKVVHU      (iv) VVKVVH
17. The length, width and height of the box is 1.5 x 1.5 x 1 The length, width and height of the soap is 75 x 150 x 200 mm. respectively. How many soaps can be packed in that box?  
 (i) 500      (ii) 1000      (iii) 750      (iv) 2000

18. How many four sides figures are in following diagram?



- (i) 3                      (ii) 4                      (iii) 5                      (iv) 6

19. Which letter comes next in the sequence? A, B, D, G, K, .....

- (i) N                      (ii) P                      (iii) M                      (iv) O

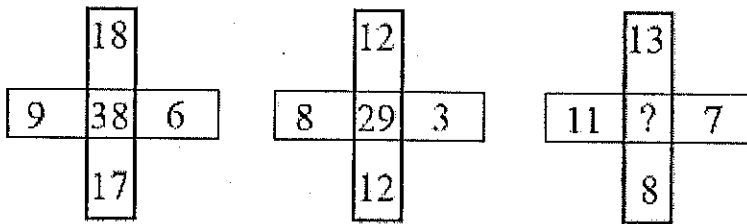
20. Which fraction is the biggest?

- (i)  $3/5$                       (ii)  $1/2$                       (iii)  $4/7$                       (iv)  $5/8$

21.  $? + (350 \times 0.84) = (620 \times 0.55) + \sqrt{1764} / 2$  Complete the equation by identifying the missing part of the calculation from the following?

- (i)  $13.5 \times 2$                       (ii)  $234/9+1$                       (iii)  $3^3 + 1$                       (iv)  $120 \times 65\%/3$

22. Fill in the question mark?



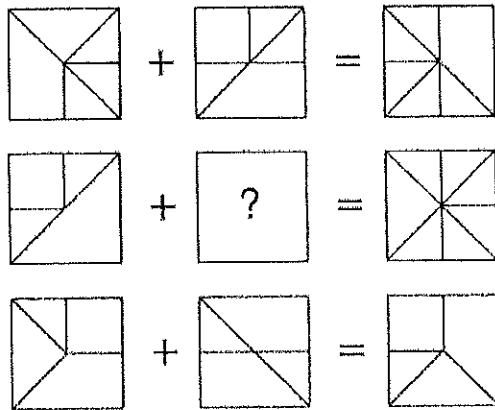
- (i) 25                      (ii) 23                      (iii) 20                      (iv) 27

23.  $\Omega \# - \Omega \Omega \# \# - ? \Omega \# - \Omega \Omega \# \# - = \# \Omega \#$   
 $- \Omega \Omega \# \# - ? \Omega \# - \Omega \Omega \# \# - = \# \Omega \# - \Omega$   
 $\Omega \# \# - ? \Omega \# - \Omega \Omega \# \# - \Omega \# - \Omega \Omega \# \# - ?$   
 $\Omega \# - \Omega \Omega \# \# - = \#$

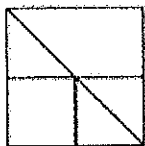
Which two symbols are missing?

- (i)  $\Omega\#$                       (ii)  $-\Omega$                       (iii)  $\#\#$                       (iv)  $=\#$

24.



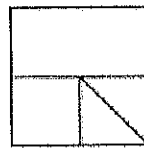
Which is the missing square?



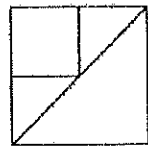
(i)



(ii)

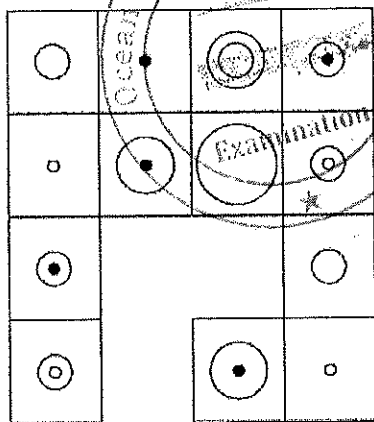


(iii)

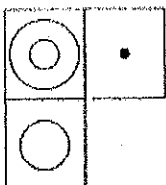


(iv)

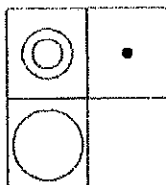
25.



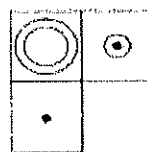
Which is the missing section?



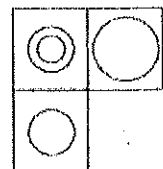
(i)



(ii)



(iii)



(iv)

