



Ocean University of Sri Lanka



Aptitude Test 2023/2024

B.Tech. in Aquaculture and Seafood Technology

NIC Number

Index No

Time Allowed: Two (02) hours


Date: 02.12.2023

Instructions:

- Answer all the questions on this paper itself.
- Use a pencil/blue ballpoint pen to mark the answers.
- Calculators are not allowed.
- The examination is conducted under the rules and regulations of the University.

SECTION A - GENERAL KNOWLEDGE - 25 QUESTIONS

01. How many administrative districts in Sri Lanka?
(i) 25 (ii) 24 (iii) 9 (iv) 14
02. Many government institutes and departments are located at Sethsiripaya, Sethsiripaya is situated in
(i) Narahenpita (ii) Nugegoda (iii) Battaramulla (iv) Bambalapitiya
03. Who is the current education minister of Sri Lanka?
(i) Dr Susil Premajayantha (ii) Mr Nimal Siripala de Silva
(iii) Dr Bandula Gunawardane (iv) Mr Akila Viraj Kariyawasam
04. How many cabinet Ministers are in the Sri Lankan Parliament today?
(i) 21 (ii) 34 (iii) 225 (iv) 196
05. Who won the gold medal in the women's 800m event at the Asian Games 2023?
(i) Tharushi Karunarathna (ii) Nadeesha Lekamge
(iii) Niluka Ranathunga (iv) Nilani Rathnayake
06. It was reported in 2019 that the Suwaseriya, a free emergency ambulance service available in Sri Lanka. The toll-free telephone number to call Suwaseriya is
(i) 1900 (ii) 1990 (iii) 1919 (iv) 1991
07. Which of the following vaccines is not used against COVID-19?
(i) Covaxin (ii) Pfizer-PrionTech (iii) Oxford-AstraZeneca (iv) Anthrax
08. What is the name of the bacteria brought from Cuba for the eradication of dengue?
(i) VTI (ii) CTI (iii) BTI (iv) PTI
09. Which of the following gases is not considered as a greenhouse gas?
(i) Methane (ii) Nitrous Oxide (iii) Carbon Dioxide (iv) Oxygen
10. Which of the following activities has contributed maximum to global warming?
(i) Deforestation (ii) Agriculture (iii) Fossil fuel combustion (iv) Aquaculture

11. In May 2021, a cargo ship caught fire off the coast of Sri Lanka causing an environmental disaster. What is the name of the ship?
 (i) X-press pearl (ii) Shan Hai (iii) MV Sea star (iv) Banglar Samriddhi
12. Which of the following is not a regional organization?
 (i) UNICEF (ii) SAARC (iii) NATO (iv) G15
13. Which Organization represents this logo?
 (i) World Trade Organization (WTO)
 (ii) United Nations Organization (UNO)
 (iii) International Maritime Organization (IMO)
 (iv) International Labour Organization (ILO)
- 
14. The "Richter" scale is used to measure
 (i) magnitude of earthquakes (ii) air pressure (iii) wind velocity (iv) humidity of the air
15. Cristiano Ronaldo was famous for
 (i) tennis (ii) football (iii) rugby (iv) cricket
16. How many players play on one side in volleyball?
 (i) 7 (ii) 6 (iii) 8 (iv) 11
17. Who is the champion of the World Cup 2023?
 (i) Australia (ii) England (iii) India (iv) Afghanistan
18. The international governing body of cricket is
 (i) CCI (ii) GCI (iii) ICC (iv) T20
19. Facebook is a social networking service. In which year Facebook was originally launched?
 (i) 2004 (ii) 2000 (iii) 1995 (iv) 2010
20. The SI unit of pressure is;
 (i) ms^2 (ii) m^2 (iii) kgm^{-3} (iv) Nm^{-2}
21. What is the most reliable scientific test that can be used for proving the identity of a person?
 (i) Fingerprint test (ii) Blood test (iii) DNA test (iv) X-ray test
22. A temperature of 32°F is equal to
 (i) 37°C (ii) 0°C (iii) 100°C (iv) 27°C
23. Who drew the picture "Mona Lisa"?
 (i) Picasso (ii) Leonardo da Vinci (iii) John Constable (iv) Raphael
24. Who is the director of the film "Titanic"?
 (i) Sylvester Stallone (ii) James Cameron (iii) Steven Spielberg (iv) Steven Seagal
25. Which city is the headquarters of the International Monetary Fund (IMF)?
 (i) London (ii) Geneva (iii) Paris (iv) Washington D.C.

SECTION B - SUBJECT KNOWLEDGE - 25 QUESTIONS

01. Aquaculture is the farming of
(i) fishes and crustaceans (ii) mollusks (iii) aquatic plants (iv) all of the above
02. Induced breeding technique is used in
(i) marine fishery (ii) capture fishery (iii) inland fishery (iv) culture fishery
03. If more than one species of aquatic organism is cultured in the same pond is called
(i) monoculture (ii) mariculture (iii) polyculture (iv) integrated fish culture
04. "Blue Economy" is related to the following
(i) Ocean resources (ii) Milk production (iii) Crop production (iv) Inland resources
05. "NAQDA" stand for
(i) National Aquaculture Development Authority
(ii) National Aquaculture, Quality, and Development Authority
(iii) National Aquatic Resources Development Agency
(iv) National Aquaculture Development Agency
06. Which is the correct statement about livebearers
(i) lay eggs (ii) give birth to young (iii) keep as livestock (iv) live feed
07. Which is the correct GIFT related to Tilapia?
(i) Gift species from Australia (ii) Genetically Improved Farmed Tilapia
(iii) Type of disease of Tilapia (iv) Gift species from India
08. Seaweeds are a rich source of;
(i) calcium (ii) protein (iii) iodine (iv) all the above
09. Migration from freshwater to marine water for reproduction is known as
(i) anadromous (ii) catadromous (iii) amphidromous (iv) potadromous
10. Culture of fishes in marine water is called
(i) mariculture (ii) aquaculture (iii) brackish water culture (iv) monoculture
11. Paddy-cum-fish culture is one of the methods of
(i) integrated fish farming (ii) intensive farming
(iii) extensive farming (iv) semi-intensive farming
12. Topography, soil type, and water supply are criteria for
(i) site selection for a pond (ii) species selection for culture
(iii) to design a pond (iv) culture type
13. What does HACCP stand for?
(i) Hazard Analysis and Critical Control Point
(ii) Hazard And Critical Control Point
(iii) Health Analysis and Critical Control Point
(iv) Health Analysis and Critical Control Point

14. Oxidation of fat is known as
 (i) rancidity (ii) alkalinity (iii) acidity (iv) toxicity
15. Scombroid poisoning is due to the primary toxic agent of
 (i) histamine (ii) linoleic acid (iii) arginine (iv) ammonia
16. Which of the following is not a fish preservation method?
 (i) Chilling (ii) Salting (iii) Drying (iv) Thawing
17. Artemia is used in aquaculture as
 (i) dry feed (ii) live animal feed (iii) powdered feed (iv) granular feed
18. Fish liver oil is rich in
 (i) vitamin A and B (ii) vitamin A and C (iii) vitamin B and D (iv) vitamin A and D
19. What do fish use to breathe?
 (i) Gills (ii) Nostrils (iii) Scales (iv) Fins
20. Which organ of the fish allows it to float?
 (i) Kidney (ii) Swim bladder (iii) Spleen (iv) Liver
21. Which of the following is a paired fin?
 (i) Caudal fin (ii) Pectoral fin (iii) Dorsal fin (iv) Anal fin
22. "Rigor mortis" is basically characterized by
 (i) stiffening of body (ii) softening of body
 (iii) asphyxiation (iv) spoilage of tissues
23. The potential egg-producing capacity of a fish during a reproduction cycle is
 (i) ovulation (ii) productivity (iii) fecundity (iv) fertility
24. Treatment of fish with salt is known as
 (i) brining (ii) smoking (iii) canning (iv) freezing
25. Application of gypsum in a pond corrects the
 (i) pH (ii) hardness (iii) salinity (iv) turbidity

SECTION C - GENERAL ENGLISH

01. Underline the most appropriate word from those given in brackets (5 marks)
- (i) This information will be (informed, communicated, said) to the relevant person.
- (ii) The Minister's confidential (secretary, friend, relative) is on leave today.
- (iii) The (venue, situation, place) of the conference will be the auditorium.
- (iv) The manager alleged to have swindled the company was sent on compulsory (holiday, vacation, leave)
- (v) After finishing the household (chores, painting, cooking) my mother watched TV.

02. Choose the correct verb from those in brackets.

(5 marks)

- (i) HeTV most evening (watches, watched, is watching)
- (ii) When he lived in India, heto the cinema once a week (goes, went, was going)
- (iii) Look! The sunover the hills (rises, is rise, is rising)
- (iv) He used to visit us every week, but henow (rarely comes, is rarely coming, has rarely come)
- (v) I Kumar this week (haven't seen, didn't see, am not seeing)

03. Underline the correct conjunction from those given in brackets to combine the following pairs of sentences. (5 marks)

- (i) You get up early. You will not be able to catch the train (if, unless, so that)
- (ii) We can start the function. The chief guest arrives. (as long as, because, as soon as)
- (iii) Kasun was rude to the teacher. The teacher did not punish him (although, before, while)
- (iv) Tomorrow is a holiday. We are going on a trip to Sigiriya (when, after, since)
- (v) You will succeed in this venture. You are willing to work with commitment (before, unless, provide)

04. Underline the most appropriate word from those given in brackets.

(5 marks)

- (i) My uncle is a (large, highly, popularly) talented singer.
- (ii) She could not sit at the examination due to unavoidable (circumstances, conditions, surroundings).
- (iii) The (audience, spectators, participants) of the seminar were happy with the presentation.
- (iv) He (spoke, sang, worked) precisely to the point.
- (v) You will succeed in this venture. You are willing to work with commitment (before, unless, provide).

05. Read the following paragraph and answer the questions.

(5 marks)

Rollover accident

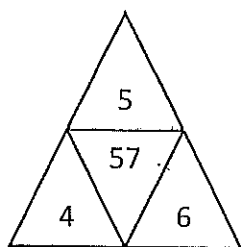
Oh, no! Bob was driving on the 55 Freeway in Costa Mesa when his car rolled over. He was driving too fast around a curve in the freeway, and his car went off the road and rolled over. Luckily, no one was hurt. Bob is okay, but he is upset. The roof of his car is dented and the left door is broken. He has car insurance, but his insurance rate will go up because this accident will be on his record. Bob called the police on his cell phone, and they were on the way. He also called his insurance company and his wife. His wife wants him to go to the hospital for a medical examination. Bob thinks he's okay, and he doesn't want to go to the hospital. He wants to go home. Should Bob go to the hospital for a medical examination? What should he do next?

(www.elcivics.com)

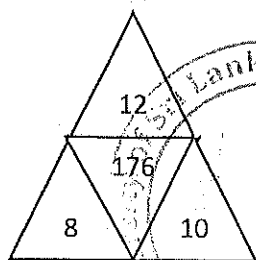
- (i) Bob's car rolled over when he was driving too fast around a curve. (.....)
- (ii) Bob called the police, his car insurance company, and his wife. (.....)
- (iii) The 55 Freeway is in Costa Mesa. (.....)
- (iv) The roof of Bob's car is dented and the right door is broken (.....)
- (v) Bob doesn't want to go home because his wife is angry. (.....)

SECTION D - IQ KNOWLEDGE - 25 QUESTIONS

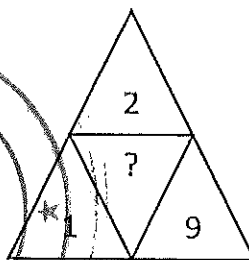
01. Insert the correct numbers to replace the question mark.



(i) 84



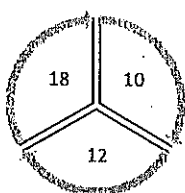
(ii) 90



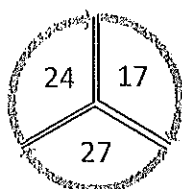
(iii) 88

(iv) 76

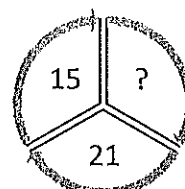
02. What number should replace the Question mark?



(i) 12



(ii) 18



(iii) 10

(iv) 6

03. Find the answer of $5 \times 6 + 20 - 4 \times 12$

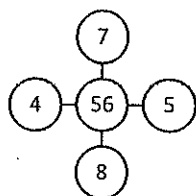
(i) 2

(ii) 4

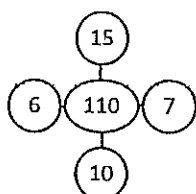
(iii) 6

(iv) 10

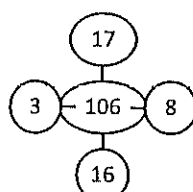
04. What number should replace the question?



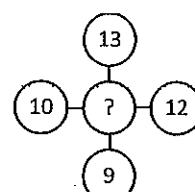
(i) 266



(ii) 250



(iii) 300



(iv) 244

05. What number should replace the question mark?

524 : 40

629 : 108

732 : ?

(i) 65

(ii) 42

(iii) 76

(iv) 54

06. January, February, April, July, November, what comes next?

(i) April

(ii) May

(iii) June

(iv) December

07. Find this missing number.

3 18 13

5 30 25

7 42 ?

(i) 37

(ii) 52

(iii) 42

(iv) 46

8. A man and a wife had four married sons and each of these had five children. How many Persons are there in all
 (i) 25 (ii) 26 (iii) 20 (iv) 24

9. A father brought some oranges. He had given twenty-five percent of oranges to his son, and the rest to his three daughters equally. If one daughter had received 15 oranges, what is the total number of oranges he had brought?
 (i) 60 (ii) 65 (iii) 70 (iv) 55

10. What is $\frac{3}{4}$ of 92 plus 13?
 (i) 69 (ii) 82 (iii) 207 (iv) 897

11. What is 12% of 375 multiplied by 3?
 (i) 135 (ii) 140 (iii) 130 (iv) 156

12. What number should appear at the bottom line?

4	7	5	8
3	6	4	9
7	13	9	17
10	19	13	26
?	?	?	?

(i) 17,32, 22, 43 (ii) 15,30,20,41 (iii) 20,32,42,56 (iv) 14, 22, 31, 40

13. A loan of Rs. 24 000 is repayable after $2\frac{1}{2}$ years with $7\frac{1}{2}\%$ interest. What is the total amount to be repaid?
 (i) Rs. 27 500 (ii) Rs. 30 000 (iii) Rs. 27 500 (iv) Rs. 28 500

14. The square is to the area and what the cube is to the
 (i) weight (ii) depth (iii) volume (iv) pressure

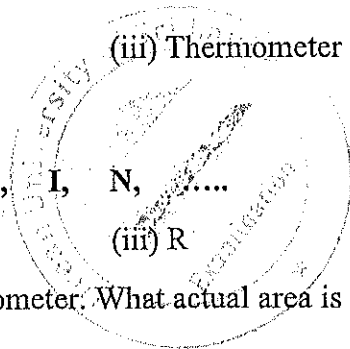
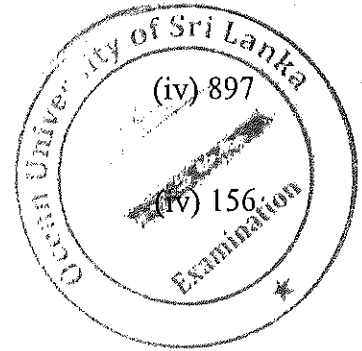
15. Time is to Clock as Heat is to
 (i) Fire (ii) Sun (iii) Thermometer (iv) Hot

16. What letter should come next?
 B, E, I, N,
 (i) T (ii) S (iii) R (iv) U

17. The scale of a map is 0.5 cm to one kilometer. What actual area is represented by 4 square centimeters on the map?
 (i) 25 km² (ii) 20 km² (iii) 8 km² (iv) 16 km²

18. **LAWYER** stands for 531264 then, **YEAR** stands for,
 (i) 2364 (ii) 4632 (iii) 2634 (iv) 3246

19. Nihal and Ravi earn more money than Sunil. Upali earns less than Sunil. Wimal earns more than Ravi but less than Nihal. Who earns the least money?
 (i) Ravi (ii) Nihal (iii) Sunil (iv) Wimal



20. Nihal was sitting in a row with other patients. On his right side 8 patients were sitting and on his left 3 persons were sitting. How many patients were sitting there?
(i) 9 (ii) 12 (iii) 10 (iv) 8
21. Mr. Kamal bought an electric kettle priced at Rs. 1500. She was given a 10% discount. She has to pay 15% VAT tax. What was the amount she had paid?
(i) Rs. 1575.50 (ii) Rs. 1580.00 (iii) Rs. 1800.00 (iv) Rs. 1675.50
22. A is the father of B, B is the father of C, But C is not the grandson of A. What is the relation of C to A?
(i) Daughter (ii) Grandfather (iii) Granddaughter (iv) Grandmother
- 23 Find the answer of $5 \times 6 + 20 - 4 \times 12$
(i) 2 (ii) 4 (iii) 6 (iv) 5
24. Out of a class of 40 students, 16 failed in English and 18 failed in Mathematics, whereas 10 failed in both. How many students have passed in both subjects?
(i) 16 (ii) 18 (iii) 20 (iv) 22
25. A rectangular photograph 10 cm wide and 15 cm long is to be enlarged, so that the width will be 22 cm, the ratio of width to length remains unchanged. What is the length in cm of the enlarged photograph?
(i) 29 (ii) 31 (iii) 33 (iv) 37

