



Ocean University of Sri Lanka

Aptitude Test 2021/2022

B.Tech. in Aquaculture and Seafood Technology



NIC Number

Index No

Time Allowed: Two (02) hrs.

Date:

Instructions:

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

SECTION A - GENERAL KNOWLEDGE – 25 QUESTIONS

- 01 What is the official name of Sri Lanka?
(i) Democratic Socialist Republic of Sri Lanka
(ii) Socialist Democratic Republic of Sri Lanka
(iii) Republic of Sri Lanka
(iv) Sri Lanka
- 02 International dialing code of Sri Lanka is;
(i) +99 (ii) +94 (iii) 011 (iv) 90
- 03 Which district has the highest population in Sri Lanka?
(i) Colombo (ii) Galle (iii) Batticaloa (iv) Kandy
- 04 Who is the first female President of Sri Lanka?
(i) Mrs Sirima Bandaranayake (ii) Mrs Chandrika Bandaranayake
(iii) Mrs Wimala Kannagara (iv) Mrs Adiline Molamurai
- 05 What is the approximate area of Exclusive Economic Zone (EEZ) of Sri Lanka?
(i) 200,000 km² (ii) 510,000 km² (iii) 260,000 km² (iv) 300,000 km²
- 06 What is the highest court of justice in Sri Lanka?
(i) The Court of Appeal (ii) The High Court
(iii) The Supreme Court (iv) The Magistrate Court
- 07 The Bay of Bengal is;
(i) a part of the Arabian sea
(ii) a part of the northwestern Indian Ocean
(iii) a part of the northeastern Indian Ocean
(iv) bordered by India, Sri Lanka and Pakistan

- 08 How many members are there in the Parliament of Sri Lanka at present?
 (i) 175 (ii) 225
 (iii) 230 (iv) 252
- 09 Where does the Mahaweli River flow into the sea?
 (i) Mullaitivu (ii) Mannar
 (iii) Ampara (iv) Trincomalee
- 10 What is the south-west monsoon season in Sri Lanka?
 (i) between December and February (ii) between February and May
 (iii) between May and September (iv) between November and February
- 11 Pigeon Island National Park is situated in the;
 (i) Arctic Ocean (ii) Indian Ocean
 (iii) Atlantic Ocean (iv) Pacific Ocean
- 12 _____ is not a UNESCO World Heritage Site in Sri Lanka.
 (i) Ancient City of Sigiriya (ii) Muthurajawela Wetland
 (iii) Old Town of Galle and its Fortifications (iv) Sinharaja Forest Reserve
- 13 What is the largest country in the world?
 (i) Canada (ii) Russia (iii) Athens (iv) India
- 14 Who won the Olympic men's 100 m in 2021?
 (i) Usain Bolt (ii) Trayvon Bromell (iii) Justin Gatlin (iv) Marcell Jacobs
- 15 Where is the headquarters of Google located?
 (i) London (ii) California (iii) New York (iv) Amsterdam
- 16 What is the UN agency striving to combat hunger and reduce poverty globally by improving agricultural, forestry, and fishing practices?
 (i) UNESCO (ii) UNICEF (iii) WHO (iv) FAO
- 17 What international organization is responsible for international public health?
 (i) UNCCD (ii) FAO (iii) UNICEF (iv) WHO
- 18 What is Coronavirus?
 (i) is a large family of viruses (ii) it belongs to the family of Nidovirus
 (iii) both i and ii are correct (iv) both i and ii are incorrect
- 19 The Coronavirus disease (COVID-19) is caused by the;
 (i) SARS-CoV virus (ii) MERS-CoV virus
 (iii) 229E virus (iv) SARS-CoV-2 virus
- 20 How many Acres are there in one Hectare?
 (i) 2.47 (ii) 3.47 (iii) 4.47 (iv) 5.47

- 21 Which of the following are both natural threats to coral reefs?
 (i) cyclones and tourism (ii) tourism and the crown-of-thorns starfish
 (iii) cyclones and agriculture (iv) cyclones and the crown-of-thorns starfish
- 22 Sound waves do not travel through;
 (i) vacuum (ii) solid (iii) liquid (iv) gases
- 23 Modern concept of sustainable development focuses more on;
 (i) economic development (ii) environmental protection
 (iii) social development (iv) all of the above
- 24 What is the best indicator of economic development of any country?
 (i) good agricultural development (ii) higher per capita income
 (iii) higher GDP growth (iv) lower rate of inflation
- 25 Richter scale is used for measuring;
 (i) density of liquid (ii) velocity of wind
 (iii) humidity of air (iv) intensity of earthquakes

(25 marks)

SECTION B- SUBJECT KNOWLEDGE – 25 QUESTIONS

- 01 What is the cultivation of fish, shellfish and aquatic plants called?
 (i) ranching (ii) sericulture (iii) apiculture (iv) aquaculture
- 02 The introduction of new species and the escape of exotic species from aquaculture into indigenous waters will be of concern because these species;
 (i) have the potential to alter the new host environment
 (ii) can disrupt the indigenous plant and animal communities
 (iii) can contribute to genetic degradation of local fish
 (iv) all the above
- 03 The scientific name of Mossambicus tilapia is;
 (i) *Oreochromis mossambicus* (ii) *Oreochromis niloticus*
 (iii) *Oreochromis aureus* (iv) *Coptodon rendalli*
- 04 When is the world fisheries day?
 (i) March 05 (ii) May 09 (iii) August 08 (iv) Nov 21
- 05 Marine macro algae commonly referred as;
 (i) mangroves (ii) seaweed
 (iii) corals (iv) seagrasses
- 06 In fish culture ponds, the inlets and outlets are constructed in;
 (i) right angle to each other (ii) same side
 (iii) opposite sides (iv) none of these

- 07 What important nutrient does fish provide?
 (i) magnesium (ii) protein (iii) carbohydrate (iv) potassium
- 08 In the seaweed industry, seaweed is used;
 (i) to prepare medicine (ii) to prepare fertilizer
 (iii) to prepare food (iv) all of these
- 09 The best parameter to test wastewater for its capacity to deplete oxygen level in water is;
 (i) chlorophyll concentration (ii) biological oxygen demand
 (iii) chemical oxygen demand (iv) total suspended solids
- 10 Which is the largest fish farming country in the world?
 (i) China (ii) Indonesia
 (iii) India (iv) Vietnam
- 11 The most rapid method of surveying for field work and plotting is;
 (i) compass surveying (ii) chain surveying
 (iii) plane table surveying (iv) none of these
- 12 If more than single species of fish cultured at a time, then it is called;
 (i) monoculture (ii) aquaculture (iii) polyculture (iv) mariculture
- 13 Pisciculture is rearing and production of;
 (i) fish (ii) birds (iii) reptiles (iv) wool yielding animals
- 14 Induced breeding technique is used in;
 (i) marine fishery (ii) capture fishery
 (iii) culture fishery (iv) inland fishery
- 15 Inland fisheries are;
 (i) deep-sea fishing (ii) capturing fish from sea coast
 (iii) oil extraction from fish (iv) raising & capturing fish in fresh water
- 16 Isinglass is used in;
 (i) preparation of wines (ii) clearing of wines
 (iii) distillation of wines (iv) preservation of wines
- 17 The chief spoilage organisms in smoked fish are;
 (i) molds (ii) bacteria (iii) both (i) and (ii) (iv) fungi
- 18 A musty or muddy odor of the fish is attributed to;
 (i) the growth of *Streptomyces* species in the mud at the bottom of the water body
 (ii) the mud at the bottom of the water body
 (iii) the growth of *Pseudomonas* species in the mud at the bottom of the body of water
 (iv) none of the above

- 19 The spoilage of chilled shrimp mainly caused by;
(i) *Achromobacter* (ii) *Pseudomonas*
(iii) molds or yeast (iv) *Micrococcus* or *Bacillus*
- 20 Marinated (sour pickled) fish should not have spoilage problems unless;
(i) the acid content is very high (ii) the acid content is low enough
(iii) the acid content is moderate (iv) none of the above
- 21 The predominant kind of bacteria causing spoilage in fish at chilling temperature is;
(i) *Pseudomonas* (ii) *Micrococcus* (iii) *Bacillus* (iv) none of these
- 22 The bacteria most often involved in the spoilage of fish are;
(i) part of the natural flora of the external slime of fishes and their intestinal content
(ii) part of the natural flora of the internal slime of fishes only
(iii) both (i) and (ii)
(iv) none of the above
- 23 The red or pink color of the salted fish is generally caused by the growth of;
(i) *Sarcina* (ii) *Micrococcus* or *Bacillus*
(iii) molds or yeast (iv) all of these
- 24 At higher temperatures, the souring of oysters may be the result of the fermentation of sugars by;
(i) coliform bacteria (ii) *Streptococci*
(iii) *Lactobacilli* and yeast (iv) all of the above
- 25 Which organization is responsible for aquaculture development in Sri Lanka?
(i) Department Fisheries and Aquatic Resources
(ii) National Aquaculture Development Authority
(iii) Marine Environment Protection Authority
(iv) National Aquatic Resources Research and Development Agency

(25 marks)

SECTION C- GENERAL ENGLISH

- 01 Underline the correct preposition
- (i) The play starts (from/at) 4 p.m.
(ii) He jumped (in/into) the river.
(iii) I have great affection (for/to) my daughter.
(iv) This man is eligible (to/for) the post.
(v) Their philosophies are incompatible (to/with) one another.
(vi) I am very disappointed (in/with) you for behaving that way.
(vii) There is a defect (in/of) the structure of the building.
(viii) I am writing you this letter (to/for) explain my problem.
(ix) He managed to open the lid (with/by) a screwdriver.
(x) On arriving (to/at) the airport we discovered that the plane would be late.

02 Underline the correct verb to complete these sentences

(05 marks)

- (i) When I got home, I found that the dog (has eaten/was eaten/ had eaten) my dinner.
- (ii) On Saturday morning they (have gone/went/go) to the library to get some books for their project
- (iii) When they arrived at the airport, their plane (already left /had already left/leaves).
- (iv) Rosie told her teacher that her uncle (had helped/ has helped/having helped) her with her homework.
- (v) It (was snowing/has snowed/is snowing) when I arrived in London.

03 Underline the correct word from those given in brackets

(05 marks)

- (i) What are your (childrens/children's/ childrens') names?
- (ii) Children are encouraged to use their (imaginative/imaginations/imagine).
- (iii) We heard on the radio that the plane had been (hijacked/kidnapped/abducted) by terrorists.
- (iv) Women should keep expensive (jewellery/jewelleries/jewells) in a bank or safe.
- (v) In Singapore, chewing gum was officially (excluded/ rejected/ banned) in 1992.

04 Find the single word from Column B to phrases in Column A and write in Column X

(02½ marks)

	A	B	X
(i)	To cut off a limb from the body	illiterate	
(ii)	According to the sequence of time	indigenous	
(iii)	Belonging naturally	amputate	
(iv)	Unable to read	euthanasia	
(v)	Gentle and easy death	chronological	

(02½ marks)

Answer Questions 5 & 6 based on the following text

Genetically Modified Food

Genetically modified food is food produced from plants or animals whose DNA has been altered through genetic engineering. These genetically modified organisms are often called GMOs for short.

Genetic engineering is the process of manipulating an organism's genes directly - for example, by transplanting DNA from other organisms. It's different from the conventional method of selectively breeding plants and animals to obtain the desired traits. Genetically modified foods have been on the US market since 1994, ever since the introduction of "Flavr Savr" tomatoes that had been engineered to ripen more slowly.

There is no one type of genetically modified organism — genetic engineering is a tool that can be used for a variety of purposes. Most of the corn and soy grown in the United States has been genetically modified to be resistant to herbicides, so that it's easier to spray fields with weed killer. Other crops have been modified to withstand pests. But genetic engineering could conceivably help create crops that can survive drought, or help produce food that's more nutritious.

There is broad scientific consensus that genetically modified foods currently on the market pose no more of a health risk than regular foods. Still, GM foods attract controversy. Opponents argue that

genetically modified crops can lead to things like increased use of chemical herbicides, or that GMOs are owned and patented by large companies. That has led to debates over whether GMOs should be labeled or tightly regulated.

05 Answer following questions

- (i) What is genetic engineering?

- (ii) Why is "Flaver Savr" tomatoes different from other tomatoes?

- (iii) What is the broad scientific consensus about GMFs currently on the market?

- (iv) Other than GMF what are the other usages that are generated through genetic engineering
- (a) _____
- (b) _____

(05 marks)

06 Chose the correct synonym to the words in Colum A from Colum B by placing the correct letter from column B in appropriate box

	A	B
(i)	conventional	tolerate
(ii)	desired	famine
(iii)	traits	altered
(iv)	withstand	opinion
(v)	conceivably	possibly
(vi)	drought	expected
(vii)	consensus	danger
(viii)	controversial	debatable
(ix)	modified	characters
(x)	risk	traditional

(05 marks)

SECTION D – IQ TEST – 25 QUESTIONS

- 01 A mother is twentyfour years older than her son. If 2 years ago, the age of the daughter was 2 years. The daughter is 2 years older than the son. What is the present age of the mother?
(i) 22 years (ii) 28 years (iii) 26 years (iv) 24 years
- 02 The speed of a boat in still water is 5km/hr. If the speed of the boat against the stream is 3 km/hr., what is the speed of the stream?
(i) 2.5 km/hr (ii) 3 km/hr (iii) 1.5 km/hr (iv) 2 km/hr

- 03 A pipe can fill a tank in 6 hours and another pipe can empty the tank in 12 hours. If both the pipes are opened at the same time, the tank can be filled in;
 (i) 8 hours (ii) 12 hours (iii) 14 hours (iv) 15 hours
- 04 In a city, 40% of the adults are illiterate while 85% of the children are literate. If the ratio of the adults to that of the children is 2:3, then what percent of the population is literate?
 (i) 20% (ii) 25% (iii) 50% (iv) 75
- 05 Which number comes next in this series of numbers?
 2, 7, 13, 20, 28...
 (i) 35 (ii) 36 (iii) 37 (iv) 38
- 06 Find the missing number
 0, 1, 1, 2, 3, 5, 8, 13, __, 34, 55
 (i) 21 (ii) 23 (iii) 25 (iv) 31
- 07 Find the missing term
 AZ, BY, CX, DW, __
 (i) EX (ii) EU (iii) EY (iv) EV
- 08 Choose the number that is $\frac{1}{4}$ of $\frac{1}{2}$ of $\frac{1}{5}$ of 200
 (i) 8 (ii) 6 (iii) 5 (iv) 4
- 09 Which one of the four choices makes the best comparison?
PEACH is to **HCAEP** as **46251** is to:
 (i) 25614 (ii) 51264 (iii) 15264 (iv) 26415
- 10 Which is the highest weight?
 (i) 65 g (ii) 75000 μ g (iii) 3500 mg (iv) 0.01 kg
- 11 $(19-18-17-16) - (20-19-18-17) =$
 (i) -1 (ii) -2 (iii) 1 (iv) 2
- 12 The monthly income of an employee was reduced by 40% first and then was increased by 50%. How much percent did he lost from his monthly income?
 (i) 10% (ii) 50% (iii) 20% (iv) 0
- 13 Mangoes of 87 kg are distributed in two boxes. One box weights 11 kg less than the other one. How many kilograms of Mangoes contained in the lighter box?
 (i) 30 (ii) 38 (iii) 40 (iv) 36
- 14 Today is Wednesday. What will be the fifth day from yesterday?
 (i) Saturday (ii) Sunday (iii) Monday (iv) Thursday
- 15 A cube has a volume of 8 cubic meters. If each side is doubled in length what will its new volume be in cubic meters?
 (i) 52 (ii) 64 (iii) 46 (iv) 32
- 16 Malani, who is sixteen years old, is four times as old as her brother. How old will Malani be when she is twice as old as her brother?

- (i) 20 (ii) 16 (iii) 24 (iv) 12

17 The average of eight different numbers is 5. If 1 is added to the largest number, what is the resulting average of the eight numbers?

- (i) 5.1 (ii) 5.125 (iii) 5.25 (iv) 5.5

18 If you rearrange the letter "CIFAIPC" you would have the name of a;

- (i) Lake (ii) Mountain (iii) Ocean (iv) Continent

19 At a meeting, 4 members shook hands with each other before & after the meeting. How many total numbers of handshakes occurred?

- (i) 6 (ii) 12 (iii) 16 (iv) 24

20 $7 \times 9 - 3 \times 7 + 10 = \dots\dots\dots$?

21 $4X + 12 - (3X - 6) = 20$. What is the value of "X" ?

Select the value suit for "?" for each of the bellow questions (22-25) from suitable place?

22

	1	3	
1		2	
	2	4	
4		?	2

i	1	ii	2
iii	3	iv	4

23

			2
			1
		4	?

i	1	ii	2
iii	3	iv	4

24

		1	
		4	
	1	3	
	?		3

i	1	ii	2
iii	3	iv	4

25

3			2
4			3
			4
?			

