

Ocean University of Sri Lanka



Aptitude Test 2021/2022 B. Sc. in Coastal and Marine Resources Management

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 Which of the following country is the largest by population?
(i) India (ii) China (iii) USA (iv) Russia
- 02 What is the current population of Sri Lanka?
(i) 17.8 million (ii) 20.3 million (iii) 18.3 million (iv) 21.9 million
- 03 A nano-fertilizer is;
(i) Any product that is made with nanoparticles or uses nanotechnology to improve nutrient efficiency
(ii) Nitrogen fertilizer made from natural substances
(iii) Organic fertilizer free from microorganisms
(iv) Liquid fertilizer made from plant material
- 04 How many districts have coastal boundaries in Sri Lanka?
(i) 22 (ii) 18 (iii) 14 (iv) 11
- 05 Which country won the most Gold Medals in 2020 Summer Olympic?
(i) China (ii) USA (iii) Great Britain (iv) Japan
- 06 Who has the record of highest runs in ICC T20 World Cup?
(i) Tillakaratne Dilshan (ii) Chris Gayle
(iii) Mahela Jayawardene (iv) Virat Kohli
- 07 Which Amendment of Sri Lankan constitution is passed by the Sri Lankan Parliament recently?
(i) 13th (ii) 19th (iii) 20th (iv) 21st
- 08 Which is the longest river in the world?
(i) Amazon (ii) Mississippi (iii) Yangzi (iv) Nile
- 09 What does LPG stand for?
(i) liquefied propane gas (ii) liquefied petroleum gas
(iii) liquefied butane gas (iv) liquid purified gas

- 10 Current Governor of Central Bank of Sri Lanka is;
 (i) Professor W.D. Lakshman (ii) Mr. Sunil Mendis
 (iii) Mr. Ajith Nivard Cabraal (iv) Mr. S.R. Attygalle
- 11 How many countries, areas, or territories are suffering from novel coronavirus outbreaks in the world?
 (i) more than 50 (ii) more than 100
 (iii) more than 150 (iv) more than 200
- 12 Which is correct about PCR test and Antigen test in detecting COVID-19?
 (i) Antigen test detects protein fragments specific to the Coronavirus and PCR test detects RNA specific to the virus
 (ii) PCR test detects protein fragments specific to the Coronavirus and Antigen test detects RNA specific to the virus
 (iii) Both tests detect the genetic material of the virus
 (iv) Both tests detect the protein fragments of the virus
- 13 Coronavirus disease (COVID-19) is an infectious disease caused by the ;
 (i) 229E virus (ii) MERS-CoV virus
 (iii) SARS-CoV virus (iv) SARS-CoV-2 virus
- 14 The 20th (twentieth) century began on;
 (i) January 1, 2000 (ii) January 1, 1900
 (iii) January 1, 1901 (iv) January 1, 2001
- 15 When was Sri Lanka under British rule?
 (i) between 1948 and 1972 (ii) between 1815 and 1948
 (iii) between 1658 and 1796 (iv) between 1505 and 1658
- 16 Which of the following Asian countries is landlocked?
 (i) Myanmar (ii) North Korea (iii) Vietnam (iv) Mongolia
- 17 What is the UN agency aimed at promoting world peace and security through international cooperation in education, the arts, the sciences, and culture?
 (i) UNESCO (ii) UNICEF (iii) IMO (iv) ILO
- 18 X-Press Pearl ship was sailing under the flag of ;
 (i) China (ii) Singapore (iii) Panama (iv) Liberia
- 19 Government fiscal policy is handled by;
 (i) Department of Treasury (ii) Central Bank of Sri Lanka
 (iii) Ministry of Finance (iv) World Bank
- 20 Light year is related to;
 (i) energy (ii) distance (iii) speed (iv) intensity
- 21 December 3, (every year) is celebrated all over the world as;
 (i) International Literacy Day (ii) International Civil Aviation Day
 (iii) International Day of Disabled Persons (iv) International Day of Human Rights

- 22 Which one of the following gases is responsible for global warming?
(i) carbon dioxide (ii) oxygen (iii) nitrogen (iv) hydrogen
- 23 Which district has the lowest population in Sri Lanka?
(i) Ampara (ii) Mullaitivu (iii) Matale (iv) Mannar
- 24 "Darwin" is a seaport of;
(i) Australia (ii) France (iii) U.K. (iv) Germany
- 25 Which among the following is called Laughing Gas popularly?
(i) nitric oxide (ii) nitrous oxide
(iii) nitrogen penta oxide (iv) nitrogen

(25 marks)

SECTION B- SUBJECT KNOWLEDGE – 25 QUESTIONS

- 01 A wind which reverses seasonally is known as;
(i) trade (ii) cyclonic (iii) monsoon (iv) polar
- 02 "Kyoto Protocol" is an international treaty relating to;
(i) reduction of greenhouse gas emissions (ii) child labour abuses
(iii) reduction of plastic pollution (iv) elimination of biological weapons
- 03 What is the most abundant element in the earth's crust?
(i) iron (ii) oxygen (iii) aluminum (iv) silicon
- 04 A giant ocean wave due to earthquake, landslide or volcanic eruption is called;
(i) swell (ii) tsunami (iii) tide (iv) whitecap
- 05 Which of the following processes acts to remove carbon dioxide from the atmosphere?
(i) burning of fossil fuels (ii) lightning
(iii) photosynthesis (iv) deforestation
- 06 The amount of force exerted over an area of surface is called;
(i) density (ii) weight (iii) temperature (iv) pressure
- 07 The gas that absorbs most of the harmful ultraviolet radiation in the stratosphere is;
(i) water vapor (ii) nitrous oxide (iii) carbon dioxide (iv) ozone
- 08 Most abundant constituent in sea salt is;
(i) sodium (ii) chloride (iii) magnesium (iv) potassium
- 09 What is the term used for the flow of goods and services that enter for sale into one country and which is product of another country?
(i) export (ii) imports (iii) income (iv) GDP

- 10 What is the theme for Earth Day 2021?
 (i) End Plastic Pollution (ii) Protect Our Species
 (iii) Restore Our Earth (iv) Climate action
- 11 The fundamental concept of Economics about resources is that the resources are;
 (i) equally distributed (ii) unequally distributed
 (iii) scarce (iv) unlimited
- 12 The central role of markets is to determine the;
 (i) quality of goods (ii) quantity of goods
 (iii) level of income (iv) price of goods
- 13 What is the most common element in mineral, **Apatite**;
 (i) sulfur (ii) phosphorous (iii) silicon (iv) nitrogen
- 14 Which of the following is not a common property of plastics?
 (i) non-reactive (ii) durable
 (iii) light in weight (iv) good conductor of electricity
- 15 Human population growth curve is;
 (i) S shaped (ii) Parabola (iii) J shaped (iv) zig zag
- 16 The physical location of an ecosystem in which a given species lives is called a;
 (i) habitat (ii) tropical level (iii) population (iv) biotic zone
- 17 Red litmus paper is changed into blue in solution of;
 (i) salt (ii) acid (iii) base (iv) none of these
- 18 Which has maximum calorific values?
 (i) fat (ii) carbohydrate (iii) protein (iv) amino acid
- 19 The heaviest naturally occurring element is;
 (i) thorium (ii) uranium (iii) mercury (iv) polonium
- 20 Identify the non-renewable energy resource from the following;
 (i) coal (ii) tide energy (iii) wind power (iv) wave power
- 21 Chromosomes are made up of;
 (i) DNA only (ii) protein only (iii) DNA and protein (iv) RNA only
- 22 Microplastics are defined as plastic particles;
 (i) <500 μm (ii) <1 mm
 (iii) <5 mm (iv) <1cm
- 23 What is the full form of ADSL?
 (i) Automatic Digital Subscriber Line (ii) Asymmetric Direct Subscriber Line
 (iii) Asymmetric Digital Subscriber Line (iv) none of these

- 24 What does **bit** stands for;
- (i) binary information term (ii) binary digit
 (iii) binary tree (iv) none of these
- 25 Which of the following commands is given to reboot the computer?
- (i) Ctrl + Alt + Del (ii) Ctrl + Alt + Tab
 (iii) Ctrl + Shift + Del (iv) Ctrl + Shift + Tab

(25 marks)

SECTION C- GENERAL ENGLISH

- 01 Fill in the blanks with the preposition in the brackets
- (i) The father has no control _____ his son. (on/over/upon)
 (ii) They will have reached the place _____ tomorrow afternoon. (on/at/by)
 (iii) The village was situated _____ the two hills. (across/along/between)
 (iv) She has been absent from school _____ Monday. (for/since/on)
 (v) I am leaving _____ Easter Land tomorrow night. (to/for/at)
 (vi) It is good to have trees planted _____ the roadsides for shade. (between/across/along)
 (vii) You must be _____ time for the meeting. (by/within/on)
 (viii) They will live here _____ five years. (to/for/from)
 (ix) The notice was _____ the Notice Board, but I didn't read it. (in/on/up)
 (x) I propose that the Minutes are _____ order. (out/in/at)

(05 marks)

- 02 Underline the correct verb

- (i) She (broke/has broken/has broke) her promise.
 (ii) She (began/begun/is beginning) the job yesterday.
 (iii) Have you (wear/worn/wore) that dress before?
 (iv) He (falls, fell, has fallen) asleep while he was driving.
 (v) I'm sure, I (saw, have seen, had seen) him at the party last night.
 (vi) I thanked him for what he (had done, did, was doing).
 (vii) When I (have finished, had finished, finished) my work, I left the office.
 (viii) This book (belong, belongs, is belonging) to my brother.
 (ix) The telephone (is ringing, has rung, has been ringing) for the last five minutes.
 (x) Four fishermen (drown/drowned/have drowned) in the accident.

(05 marks)

- 03 Write the following in words;

- (i) Rs 1,000,450 _____
 (ii) 2.46 ha _____
 (iii) ½ kg _____
 (iv) km/hr _____
 (v) >5% _____

(2½ marks)

04 Read the following sentences and underline the correct word given in brackets

- (i) I'll teach you to swim (perfectly, perfect).
- (ii) Some drivers are (carefully, careless).
- (iii) I can't stand your (continual/continuous) interruptions.
- (iv) Professor asked me to do it (immediately, immediate).
- (v) This is the most (historic/historical) building in the town.

(2½ marks)

05 Read the paragraph and answer Questions 5 and 6

Great Predators

Dinosaurs were the undisputed rulers of our planet for a long time. They evolved from primitive reptiles during the Triassic period—a geological time that lasted between 250 million to 210 million years ago – then became dominant in the Jurassic period and continued to be so until the end of cretaceous period. Proved to be populating the earth for almost a hundred and fifty million years, they evolved, diversified and became more and more numerous. Then, suddenly, they all disappeared

Some dramatic event occurred 65 million years ago to put the word “end” to their history. What was the cause of their extinction? Most probably a giant celestial body that struck the earth at a speed of 18 miles per second.

The terrible shock wave and the deadly hail of rocks raised by the impact would have wiped off everything within a radius of hundreds of miles. The rest of the destruction would have been caused by the blanket of dust that fell on the earth and made it dark and cold. The first to die would have been the large herbivorous dinosaurs, followed by their predators, and finally with the passing of time, there would not have been even one dinosaur left.

For us humans, the discovery of the existence of dinosaurs began thanks to only a few clues; some bone fragments and teeth fossils, found by chance in 1822 in England, suddenly opened up a door to that distant past. Since then, “Dinosaurmania” has been unleashed.

(By Giuseppe and Anna Cessa)

- (i) Dinosaurs believed to be existed from period to Period.
- (ii) How many years they believed to be existed?
- (iii) When the extinction of dinosaurs was begun?
- (iv) What was the clue that helped to discover the existence of dinosaurs?
.....
- (v) What was the cause of extinction of dinosaurs?
.....
.....

(05 marks)

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

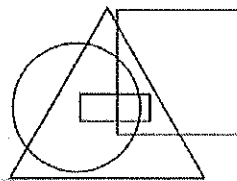
X	Y
(i) evolved	(a) leading
(ii) diversified	(b) hints
(iii) extinction	(c) abundant
(iv) existence	(d) presence
(v) clues	(e) disappearance
(vi) dramatic	(f) varied
(vii) numerous	(g) derived
(viii) dominant	(h) ancient
(ix) primitive	(i) vanished
(x) disappeared	(j) extreme

(05 marks)
(Total 25 marks)

SECTION D – IQ TEST – 25 QUESTIONS

- 01 What number should replace the question mark?
27, 24, 30, 27, 33, ?
(i) 48 (ii) 30 (iii) 27 (iv) 24
- 02 If WORK is coded as 4567 and MAN 328, then WOMAN is coded as
(i) 45328 (ii) 43528 (iii) 32845 (iv) 35428
- 03 At the end of a business conference, all ten people attended shake hands with each other once. How many handshakes are there?
(i) 20 (ii) 45 (iii) 90 (iv) 100
- 04 Today is Aruna’s birthday. One year from today he will be twice as old as he was 12 years ago. How old is Aruna today?
(i) 20 years (ii) 22 years (iii) 25 years (iv) 27 years
- 05 Study the following diagram carefully and answer the following question

- Government employees
- Urban people
- Graduates
- Teachers

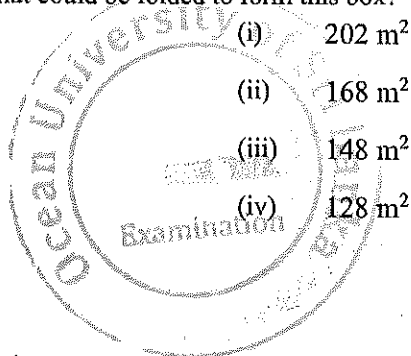
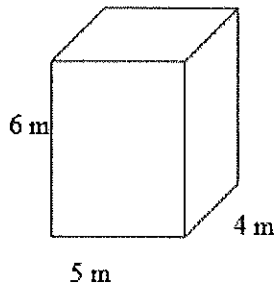


- Which of the following statements is true?
- (i) all urban people are graduates
 - (ii) all graduates are urban people
 - (iii) all the urban government employees are graduates
 - (iv) all teachers are urban people

06 On a 1 : 50,000 map, village A and B are 4.5 cm apart. What is the real distance in km?
(i) 1 ¼ km (ii) 1 ½ km (iii) 2 ¼ km (iv) 2 ½ km

- 07 One angle of a triangle is 89° . The other two angles are in the ratio 2:5. The number of degrees in the smallest angle is;
- (i) 13 (ii) 26 (iii) 39 (iv) 45

- 08 What is the area of the net that could be folded to form this box?



- (i) 202 m^2
(ii) 168 m^2
(iii) 148 m^2
(iv) 128 m^2

- 09 The square root of 0.0121 is;
- (i) 0.000011 (ii) 0.00011 (iii) 0.011 (iv) 0.11

- 10 What is the value of the expression $-4\sqrt{25} + 4^3$?
- (i) 32 (ii) 44 (iii) 84 (iv) 112

- 11 If the following numbers are arranged in order from the smallest to the largest what will be their correct order
I. $\frac{7}{11}$ II. $\frac{9}{13}$ III. 70% IV. $\frac{1}{0.70}$
- (i) I,II,III,IV (ii) III,II,I,IV (iii) II,IV, III,I (iv) None of these

- 12 The following table shows the attendance in a week at a certain primary school except Wednesday.

Da25.y	Monday	Tuesday	Wednesday	Thursday	Friday
Number of students	742	754	?	736	743

If the average

attendance for that week was 747, how many students attended the school on Wednesday?

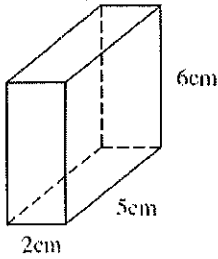
- (i) 736 (ii) 739 (iii) 750 (iv) 760
- 13 The day after the day after tomorrow is four days before Monday. What day is it today?
- (i) Monday (ii) Tuesday (iii) Wednesday (iv) Thursday
- 14 Which is the longest distance?
- (i) 3500 cm (ii) 65.5 m (iii) 0.1km (iv) 75000 mm

- 15 A car used 12 liters of petrol and traveled a total distance of 290 km. The car's fuel efficiency is 25 km per liter on the highway and 20 km per liter in the city. The variable h will represent the number of liters used on the highway. Which equation could be used to find h ?

- (i) $25h + 20(12 - h) = 290$ (ii) $25(12 - h) + 20h = 290$
(iii) $25(12 + h) + 20h = 290$ (iv) $25h + 20(12 + h) = 290$

- 16 At a certain corporation, the ratio of clerical workers to executives is 7 to 2. If a combined total of 81 clerical workers and executive workers for that corporation. How many clerical workers are there?
- (i) 9 (ii) 14 (iii) 18 (iv) 63

- 17 What is the Mass of the solid in the diagram if its density is 1.2 g/cm^3 ?



- (i) 50 g
 (ii) 60 g
 (iii) 72 g
 (iv) 38.4 g

- 18 A farmer built a fence around his square plot. He used 27 fence poles on each side of the square. How many poles did he need altogether?

- (i) 100 (ii) 104 (iii) 108 (iv) None of these

- 19 If $R = \frac{(S+T)P}{3}$ then T equals;

- (i) $\frac{3R - S}{P}$ (ii) $\frac{PR - S}{P}$ (iii) $\frac{3R}{P} + S$ (iv) $\frac{3R}{P} - S$

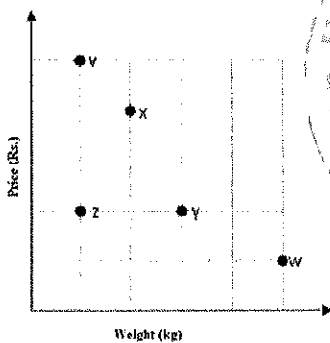
- 20 The total number of digits used in numbering a book having 366 pages is;

- (i) 732 (ii) 990 (iii) 1098 (iv) 1305

- 21 Of the 30 Officers on traffic duty, 20% didn't work on Friday. How many officers worked on Friday?

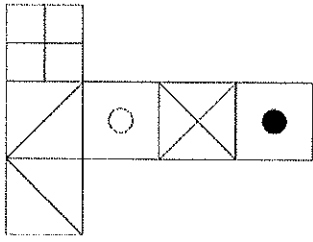
- (i) 6 (ii) 10 (iii) 12 (iv) 24

- 22 The graph shows the price paid and weight for bags of sugar bought at different shops. Which two shops charged the same price per kilogram?

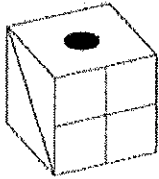


- (i) shops z & x
 (ii) shops y & z
 (iii) shops v & w
 (iv) shops x & y

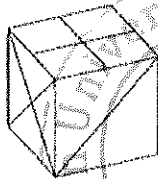
23



When the above is folded to form a cube, which is the only one of the following that can be produced?



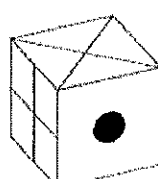
(i)



(ii)

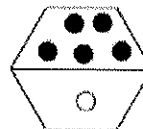
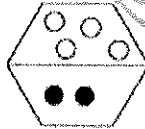


(iii)



(iv)

24



Which one is missing?



(i)



(ii)

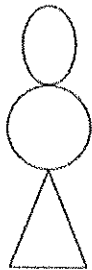


(iii)



(iv)

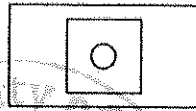
25



is to



as



is to



(i)



(ii)



(iii)



(iv)

*****End of Paper*****