

08. What process converts liquid water into gas at the boiling point?
a) Evaporation b) Sublimation c) Condensation d) Boiling
09. Which scientist won the Nobel Prize in Chemistry twice, first in 1903 and then in 1911, for work related to radioactivity?
a) Linus Pauling b) Marie Curie c) Dorothy Crowfoot Hodgkin d) Irène Joliot-Curie
10. Which types of documents can you commonly find on Google Scholar?
a) Academic journal articles, theses, dissertations, books, and patents
b) Movie scripts and reviews
c) Newspaper advertisements
d) Personal blogs and vlogs
11. Which country is known as the "Land of the Rising Sun"?
a) China b) Japan c) Thailand d) South Korea
12. Who was Lady Adeline Molamure?
a) The first female Prime Minister of Sri Lanka
b) The first female member elected to the State Council of Ceylon
c) The first female diplomat of Sri Lanka
d) The first female Governor of Sri Lanka
13. Which of the following is the smallest unit of data in a computer?
a) Byte b) Bit c) Kilobyte d) Megabyte
14. Who is the first Sri Lankan to win the International Booker Prize?
a) Michael Ondaatje b) Shehan Karunatilaka
c) Romesh Guneseckera d) Shyam Selvadurai
15. What is the primary goal of Artificial Intelligence (AI)?
a) To increase computer processing speed b) To create systems that simulate human intelligence
c) To replace human workers d) To enhance data storage capacity
16. Who is considered the pioneer of modern Sinhala drama, known for the play "Maname"?
a) Sir John de Silva b) Ediriweera Sarachchandra
c) Lucien de Zoysa d) K. B. Herath
17. Who developed the periodic table of elements, predicting properties of undiscovered elements?
a) Jöns Jacob Berzelius b) Dmitri Mendeleev c) Alfred Nobel d) Marie Curie
18. Which element is located to the right of Sodium (Na) on the periodic table?
a) Magnesium (Mg) b) Neon (Ne) c) Aluminum (Al) d) Potassium (K)
19. Who is known as the King of Sri Lankan Baila music?
a) Desmond de Silva b) Victor Ratnayake c) Pandith W.D. Amaradeva d) Sunil Santha

20. Who were the parents of King Charles III, United Kingdom?
 a) King George VI and Queen Elizabeth
 b) Queen Elizabeth II and Prince Philip, Duke of Edinburgh
 c) Prince William and Catherine Middleton
 d) Prince Andrew and Sarah Ferguson
21. Which of the following is the largest source of plastic pollution in marine environments?
 a) Fishing and shipping industry waste b) Plastic packaging and single-use plastics
 c) Industrial plastic pellets d) Agricultural plastics
22. In which film did Nanda Malini sing the duet "Galana Gangaki Jeevithe"?
 a) Rekava b) Ranmuthu Duwa c) Nidhanaya d) Gamperaliya
23. About what percentage of the Earth's surface is covered by oceans?
 a) 51% b) 71% c) 81% b) 90%
24. Why is the Maldives at risk of becoming uninhabitable in the future?
 a) Earthquakes b) Rising sea levels due to climate change
 c) Volcanic eruptions b) Deforestation
25. Elements with similar chemical properties are found in the same:
 a) Period b) Group c) Block d) Electron shell

SECTION B - SUBJECT KNOWLEDGE - 25 QUESTIONS

01. What is the primary focus of marine biotechnology?
 a) Studying plant life in marine environments
 b) Investigating marine animal behavior
 c) Utilizing marine organisms for industrial and medical applications
 d) Analyzing ocean currents and tides
02. Which technology is commonly used for the large-scale cultivation of marine microalgae?
 a) Fermenter b) Photobioreactor c) Aquaculture d) Multi-trophic aquaculture
03. Which nutrient is most responsible for eutrophication in marine environments?
 a) Nitrogen b) Potassium c) Sodium d) Iron
04. Marine biotechnology is most important in developing drugs for which disease?
 a) Headache b) Cold c) Cancer d) Fever
05. What is the main advantage of using marine natural products as pharmaceuticals?
 a) Low cost b) Novel chemical structures c) Easy synthesis d) Lack of regulations
06. Which base is not found in DNA but is found in RNA?
 a) Cytosine b) Thymine c) Uracil d) Adenine
07. What is the overall balanced chemical equation for photosynthesis?
 a) $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$ b) $6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$
 c) $\text{C}_6\text{H}_{12}\text{O}_6 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ d) $\text{H}_2\text{O} + \text{O}_2 \rightarrow \text{CO}_2 + \text{ATP}$

08. Which enzyme breaks down starch into sugars in the mouth?
a) Pepsin b) Lipase c) Amylase d) Protease
09. Which of the following carbohydrates is non-digestible by humans?
a) Glycogen b) Starch c) Cellulose d) Lactose
10. Which macromolecule is primarily responsible for genetic information storage?
a) Carbohydrates b) Proteins c) Lipids d) Nucleic acids
11. The smallest particle of an element that retains the properties of that element is
a) Molecule b) Ion c) Atom d) Proton
12. Avogadro's number is regarded as a fundamental constant in chemistry. Avogadro's number is:
a) 3.14 b) 6.022×10^{23} c) 9.8 m/s^2 d) 1.6×10^{-19}
13. Titration is an analytical laboratory method. It is used to determine:
a) Temperature b) Pressure c) Concentration d) Mass
14. How many molecules are there in 2 moles of CO_2 ?
a) 6.02×10^{23} b) 3.01×10^{23} c) 1.204×10^{24} d) 2.204×10^{23}
15. If 1 mole of oxygen gas (O_2) weighs 32 g, how much does 0.5 mole weigh?
a) 16 g b) 32 g c) 8 g d) 64 g
16. What is the product of the reaction between an acid and a base?
a) Salt and water b) Hydrogen and oxygen c) Carbon dioxide and water d) Only water
17. Which of the following best describes a catalyst?
a) A reactant b) A product c) A substance that slows down a reaction
d) A substance that speeds up a reaction without being consumed
18. Which microorganism is primarily responsible for the fermentation in wine making?
a) *Lactobacillus* b) *Saccharomyces cerevisiae* c) *Acetobacter* d) *Penicillium*
19. Which organelle contains genomic DNA and is known as the control center of the cell?
a) Mitochondria b) Nucleus c) Ribosome d) Lysosome
20. Which process describes the removal of salt from seawater to produce freshwater?
a) Evaporation b) Desalination c) Precipitation d) Distillation
21. Which marine biopolymer is used in food and biotechnology industries as a gelling agent?
a) Agar b) Lignin c) Cellulose d) Chitin
22. What is the functional group in alcohols?
a) $-\text{OH}$ b) $-\text{COOH}$ c) $-\text{NH}_2$ d) $-\text{CHO}$
23. What type of bond is primarily present in organic compounds?
a) Ionic bond b) Covalent bond c) Metallic bond d) Hydrogen bond
24. The International Union of Pure and Applied Chemistry (IUPAC) name of CH_3CHO is:
a) Methanal b) Ethanal c) Propanal d) Butanal
25. Which of the following is a saturated hydrocarbon?
a) Ethane b) Ethyne c) Ethene d) Benzene

SECTION C – GENERAL ENGLISH - 25 QUESTIONS

01. Fill in each blank with a suitable preposition from the list given below. Use each preposition only once. There is one preposition extra.

In	on	at	to	from
-----------	-----------	-----------	-----------	-------------

A travelling salesman visiting a large business office boasted (1) The manager that he could pick out all the married men (2)the employees. Accordingly, he stood (3) the door as the employees returned (4) lunch and identified all those he believed to be married. In almost every case he was right.

“How do you do it?” asked the manager.

The travelling salesman replied, “The married men wipe their feet (5) The doormat; the single ones don’t!”

02. Combine the following pairs of sentences using a suitable conjunction from those given in brackets.

a. You get up early. You will not be able to catch the train. (if, unless, so that)

.....

b. We can start the function. The chief guest arrives. (as long as, because, as soon as)

.....

c. Rajah was rude to the teacher. The teacher did not punish him. (although, before, while)

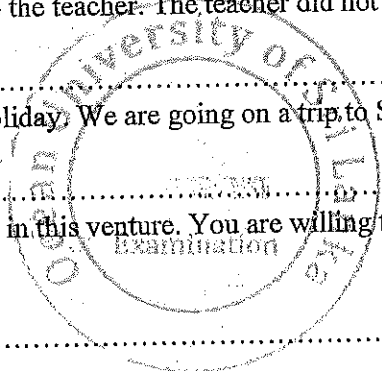
.....

d. Tomorrow is a holiday. We are going on a trip to Sigiriya. (when, after, since)

.....

e. You will succeed in this venture. You are willing to work with commitment. (before, provide, unless)

.....



03. Of the options given below each sentence in bold print, underline the one that best expresses its meaning.

a. **Sometimes people don't appreciate what they have until they lose them.**

- i. Sometimes people appreciate things when it is too late.
- ii. When people don't appreciate what they have, they lose them.
- iii. Sometimes people appreciate the things that they often lose.
- iv. People don't appreciate the things in their possession even if they lose them.

b. **The frock was fine as far as the colour was concerned but it wasn't of very good quality.**

- i. Both the colour and the quality of the frock were good.
- ii. Though the quality of the frock was good, its colour was not fine.
- iii. The quality of the frock often depends on its colour.
- iv. Though the colour of the frock was fine, it was of a poor quality.

- c. **It is Nimal who first told me that the match had been cancelled.**
- I knew that the match had been cancelled before Nimal told me.
 - I didn't know that the match had been cancelled until Nimal told me.
 - I told Nimal that the match had been cancelled when he asked me.
 - Nimal knew that the match had been cancelled but he did not tell me.
- d. **Had I know that Mr. Raghu was the Chairman, I would have talked to him.**
- Mr. Raghu was not the Chairman so I did not talk to him.
 - I did not know that Mr. Raghu was the Chairman but I talked to him.
 - I did not know that Mr. Raghu was the Chairman so I did not talk to him.
 - I knew that Mr. Raghu was the Chairman but I did not talk to him.
- e. **I hurried to get the bus stop only to find that I didn't have enough to pay the fare.**
- I hurried to get the bus stop and then I found that I had enough money to pay for the bus.
 - I hurried to get to the bus stop but I found that I was short of money to pay for the bus.
 - I found that I didn't have enough money to pay for the bus I hurried to get to the bus stop.
 - I found that I had enough money to pay for the bus and then I hurried to get to the bus stop.

04. Read the following text and do the activity that follows.

Ruhuna Plantation PLC
Sale of use Motor Vehicles

Offers are invited for the sale of following company owned and maintained vehicles.

Vehicle Type	Vehicles	Location of Inspection
Motor Cycle	(i) Honda CD 185 (MV 32xx) (ii) Yamaha 125 (GA 45xx)	Ruhunu Plantations PLC Imaduwa Branch Main Street, Imaduwa
Double Cab	(i) Toyota Hilux (59-42xx) (ii) Toyota Hilux (59-56xx)	Ruhunu Estate PLC Alwis Rd, Deniyaya

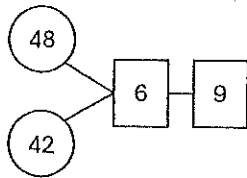
The above vehicles could be inspected at the given addresses from 2nd September to 12th September, 2025 during weekdays from 9.00 am to 4.00 pm excluding Monday, Sealed offer must be deposited in the Tender Boxes available at the inspection locations before 4.00 pm on 13th September, 2025.

Tender forms could be obtained from the address given below and locations of inspection at Rs. 100.00 (non-refundable) per form. A separate tender form should be submitted for each vehicle. A refundable deposit of Rs. 2500.00 each for a Motor Cycle and Rs. 5000.00 each for a Double Cab should be made with each offer. Further details can also be obtained from the company website.

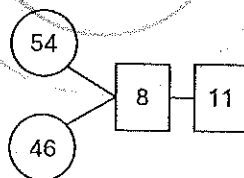
General Manager
Ruhuna Plantations PLC
344, Main Street,
Matara.
Web: www.ruhunueplc.lk

06. If "FOOD" is coded as "EPPD", how is "DRINK" coded?
 a) CQHML b) EQJOL c) CQMJL d) CQJML
07. Find the odd one out: Mercury, Venus, Mars, Pluto.
 a) Mercury b) Venus c) Mars d) Pluto
08. Which number will replace the question mark in the series: 2, 6, 12, 20, ?, 42
 a) 28 b) 30 c) 34 d) 36
09. A train 200 meters long passes a pole in 20 seconds. What is the speed of the train?
 a) 30 km/h b) 36 km/h c) 40 km/h d) 45 km/h
10. In a certain code, if CAT = 3120, DOG = 4157, what is the code for BAT?
 a) 2130 b) 3120 c) 2140 d) 2145
11. What comes next in the pattern: JFMAMJJASON_?
 a) D b) N c) J d) O

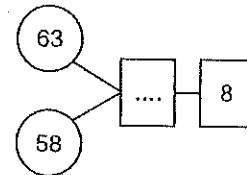
12. What is the missing number?



(i) 1



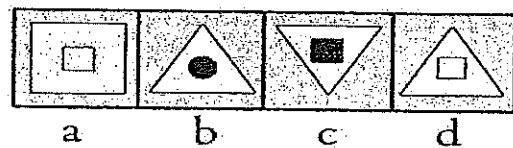
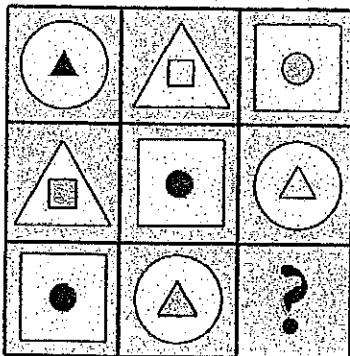
(ii) 5



(iii) 8

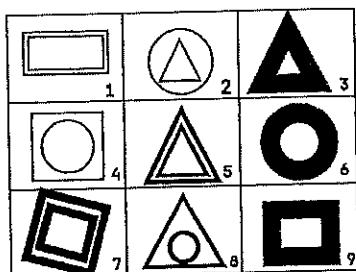
(iv) 6

13. What is the missing portion of the whole image?



14. In a row of students, if John is 7th from the left and 9th from the right, how many students are there in the row?
 a) 15 b) 16 c) 17 d) 18
15. If it takes 4 men 4 days to build 4 walls, how long would it take 8 men to build 8 walls?
 a) 2 days b) 4 days c) 6 days d) 8 days

16. A clock shows the time as 3:15. What is the angle between the hour and minute hands?
 a) 0 degrees b) 7.5 degrees c) 30 degrees d) 37.5 degrees
17. It takes Martin $\frac{1}{2}$ an hour to get washed and changed before school. It takes him $\frac{1}{4}$ to go downstairs and eat breakfast. It takes him 1 and $\frac{1}{4}$ hours on the bus to school. How much time does it take Martin to get ready and get to school?
 a). $\frac{1}{2}$ hours b). $\frac{1}{2}$ hours c). $\frac{3}{4}$ hours d). 1 hours
18. Sarah is currently 30 years old, and she is five times older than her sister. How old will Sarah be when she is three times her sister's age? 361
 a) 35 years b) 36 years c) 40 years d) 45 years
19. What is the mirror image of the sequence "AB12C"?
 a) C21BA b) C21BA c) C21AB d) CBA12
20. A restaurant reduces the price of a meal by 25%. What percentage must the discounted price be increased to return to the original price?
 a) 20% b) 25% c) 33.33% d) 50%
21. Printers print 10 pages in 10 minutes. How long would it take for 100 printers to print 100 pages?
 a) 1 minute b) 10 minutes c) 5 minutes d) 100 minutes
22. You need to get 15 pieces of string by cutting a single long piece of string. How many cuts do you need to make?
 a) 13 b) 14 c) 15 d) 16
23. Every New Year since Mia's birth, her grandparents deposit as many coins into her piggy bank as her age at that time. Now there are 45 coins in the piggy bank. How old is Mia?
 a) 8 years b) 9 years c) 10 years d) 11 years
24. You are trying to fill a tank, but there's a leak at the bottom. The first hose can fill the tank in 4 minutes, and the second hose in 3 minutes. The leak can drain the entire tank in 12 minutes. If both hoses are turned on with the leak open, how long will it take to fill the tank?
 a) 2 minutes b) 3 minutes c) 4 minutes d) 5 minutes
25. Sort the given figures into three distinct groups, using each figure in only one group.



a) 1,5,7 ; 2,4,6 ; 3,9,8

b) 1,5,7 ; 2,4,8 ; 3,6,9

c) 1,4,7 ; 2,5,8 ; 3,6,9

d) 1,7,9 ; 3,5,8 ; 2,4,6

****THE END****

