



GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY

SELECTION TEST FOR THE ENLISTMENT OF OFFICER CADETS/DAY SCHOLARS
INTAKE 43

Model paper

Call up No:-

General Instructions:

Answer all questions.

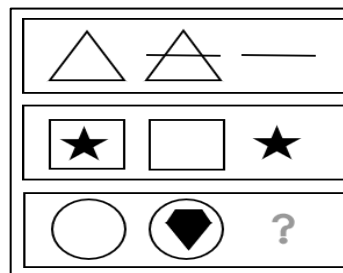
Part - A: General Knowledge & IQ




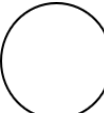
Marks	50
Duration	45 Minutes

- Which event is often considered the starting point of World War II?
 - The bombing of Pearl Harbor
 - The German invasion of Poland
 - The signing of the Treaty of Versailles
 - The Battle of Stalingrad
- Who was the first president of Sri Lanka?
 - Mr. JR Jayawardena
 - Mr. Ranasinghe Premadasa
 - Mr. William Gopallawa
 - Mrs. Chandrika Kumarathunga
- Which country is known for its policy of neutrality and has not been involved in any wars since 1815?
 - Norway
 - Switzerland
 - Sweden
 - Finland

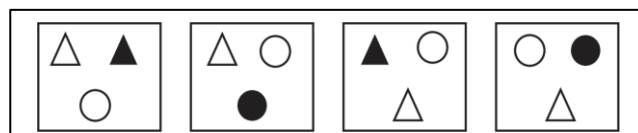
4. Which of the following is a main component of a Virtual Reality System?
- a. Keybaord
 - b. Monitor
 - c. Head-mounted Display (HMD)
 - d. Printer
5. Which branch is the largest in the Sri Lankan Armed Forces?
- a. Sri Lanka Army
 - b. Sri Lanka Navy
 - c. Sri Lanka Airforce
 - d. Sri Lanka Cost Guard
6. Which continent is the largest by land area?
- a. Africa
 - b. Asia
 - c. North America
 - d. Europe
7. What does GDP stand for?
- a. Gross Domestic Product
 - b. General Domestic Product
 - c. Gross Domestic Profit
 - d. General Domestic Profit
8. Which of the following is NOT one of the United Nations' Sustainable Development Goals (SDGs)?
- a. No Poverty
 - b. Quality Education
 - c. Climate Action
 - d. Universal Healthcare
9. When was the first parliament meeting held in Sri Lanka?
- a. 1972
 - b. 1948
 - c. 1978
 - d. 1976
10. Which country provided significant funding and technical support for the Uma Oya Project?
- a. India
 - b. China
 - c. Iran
 - d. Japan













11. What is the most suitable shape that should be replaced with the (?) mark?



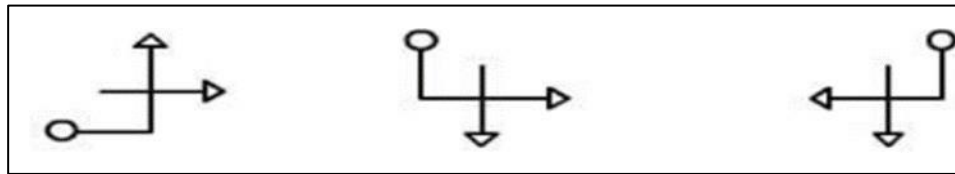
- a. 
- b. 
- c. 
- d. 

12. The four diagrams are in a logical sequence. Choose the next diagram accordingly.



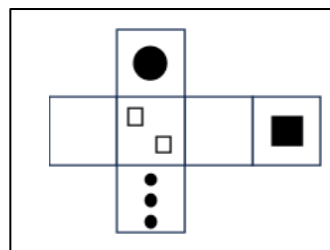
- a.  

- b.  

- c.  

- d.  


13. What is the next image in the below series?



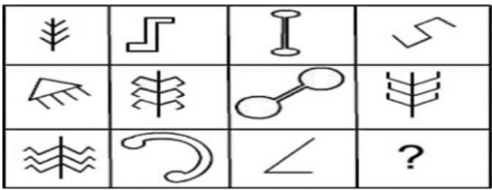
- a.
- b.
- c.
- d.

14. If the below net is folded into a cube, which of the given shapes would it look like?



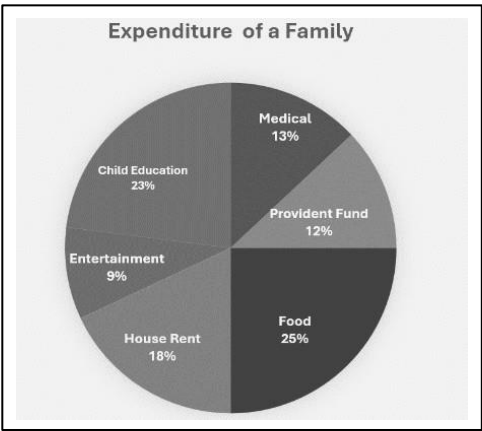
- a.
- b.
- c.
- d.

15. What is the missing figure?



- a.
- b.
- c.
- d.

16. The pie chart given here represents a family's domestic expenditures in percent. If the family's total monthly income is Rs. 33,650, What is the monthly expenditure for house rent?



- a. Rs. 6,000.00
- b. Rs. 6,152.00
- c. Rs. 6,057.00
- d. Rs. 6,048.00

17. Check the validity of the statement, 'All crows are loud.' Consider that all crows are black, all black birds are loud, and all crows are birds.

- a. True
- b. False
- c. Insufficient Information
- d. It Depends

18. If it rains, then the ground will be wet. The ground is wet. Therefore:

- a. It definitely rained
- b. It might have rained
- c. It didn't rain
- d. It snowed

19. What picture comes next in the sequence?



- a.
- b.
- c.
- d.

20. All the peaches you have ever eaten from the grocery store have been sweet. You conclude that:
- All peaches are sweet
 - Some peaches are sweet
 - The grocery store sells sweet peaches
 - No peaches are sour
21. Which explanation is weakest?
- The steak was overcooked because I cooked it too long.
 - Jose didn't drive his car today because it was in the shop for repairs.
 - We don't belong to the country club anymore because we can't afford it
 - Samanmali overslept because she stayed up very late last night.
22. A company claims that its new energy drink increases productivity by 50%. Which of the following would be the best way to evaluate this claim critically?
- Try the drink and see if it works for you
 - Ask friends if they have tried the drink
 - Look for independent research or reviews on the drink
 - Compare the price of the drink to other energy drinks
23. What number comes next in the series: 1, 4, 9, 16, 25, ...?
- 36
 - 30
 - 48
 - 35
24. Which letter comes next in the pattern: Z, X, V, T, ...?
- R
 - S
 - Q
 - P
25. Find the value of 'x' in the expression: $5(x+9)-2x=90$
- $x = 15$
 - $x = 9$
 - $x = -15$
 - $x = 5$
26. Simplify the expression: $3(2x-4)+5x$
- $11x-4$
 - $11x-12$
 - $6x-12$
 - $10x-4$
27. What is the mode of the following dataset: 7, 9, 8, 9, 7, 8, 9, 7, 9, 1, 2, 5, 1?
- 7
 - 8
 - 9
 - 1

28. What is the mean of the following data set: 4, 8, 6, 5, 3?
- a. 4.5
 - b. 5.2
 - c. 5.0
 - d. 5.4
29. What is the probability of flipping a fair dice and obtaining number 1?
- a. 0.75
 - b. 0.25
 - c. 0.5
 - d. 0.167
30. What is the probability of flipping a fair coin and getting heads?
- a. 0.25
 - b. 0.5
 - c. 0.75
 - d. 1

Part B: English

Marks	50
Duration	01 Hour

QUESTION 1: (10 MARKS)

Select the word which is most suitable for the given blanks of each sentence.

1. If I _____ earlier, I would have caught the bus.
a) wake up
b) woke up
c) had woken up
d) was waking up
2. He has been living in this city _____ five years.
a) since
b) from
c) for
d) during
3. Neither the teacher nor the students _____ present today.
a) was
b) were
c) is
d) has been
4. She speaks English as fluently as _____.
a) him
b) he
c) his
d) himself
5. He is the man _____ car was stolen.
a) who
b) whose
c) whom
d) which
6. She has little interest _____ politics.
a) for
b) in
c) to
d) on
7. No sooner had he arrived _____ it started raining.
a) when
b) then
c) than
d) that
8. He worked hard _____ he might pass the exam.
a) although

- b) so that
- c) unless
- d) if

9. There isn't _____ sugar left in the jar.

- a) some
- b) much
- c) many
- d) few

10. She is the best dancer I _____ seen.

- a) have ever
- b) had ever
- c) ever have
- d) ever had

QUESTION 2: (10 MARKS)

Choose the most suitable word for each blank from the list below and fill in the blanks.

In the early stages of scientific inquiry, researchers often face immense pressure to (1) _____ novel findings, even when the data remains inconclusive. This urge, while understandable, can lead to (2) _____ interpretations that compromise the integrity of the research process.

A fundamental principle of science is its reliance on (3) _____—the process of testing and re-testing hypotheses through rigorous methodologies. Without it, even the most promising theories risk becoming mere (4) _____.

However, the modern research landscape is increasingly shaped by institutional demands for productivity, creating an environment where scholars may be tempted to prioritize quantity over (5) _____. Such pressures can lead to a proliferation of studies that are (6) _____ in design or scope, contributing little to the broader academic discourse.

Moreover, the (7) _____ of peer review, while intended to safeguard quality, is not immune to bias and inconsistency. Journals may exhibit favoritism, while reviewers themselves may lack sufficient (8) _____ in niche subjects.

To address these issues, some have proposed open-access models and data transparency as (9) _____ reforms. Yet without a corresponding shift in academic culture, such measures risk being merely (10)—symbolic gestures that fail to address the deeper systemic flaws.

1.

- A) suppress
- B) publicize
- C) fabricate

2.

- A) hasty
- B) meticulous
- C) impartial

3.

- A) replication
- B) revelation
- C) intuition

4.

- A) anomalies
- B) conjectures
- C) axioms

5.

- A) validity
- B) popularity
- C) velocity

6.

- A) exhaustive
- B) rigorous
- C) superficial

7.

- A) mechanism
- B) celebration
- C) jurisdiction

8.

- A) evidence
- B) expertise
- C) consensus

9.

- A) regressive
- B) token
- C) substantive

10.

- A) perfunctory
- B) integrative
- C) exemplary

QUESTION 3: (10 MARKS)

Read the following text and answer the questions given below it.

Asthma is becoming a more prevalent disease since the early 1990s. From 1982 to 1992, the rate of asthma jumped from 34.7 to 49.4 per thousand. The prevalence of asthma in the USA is around 8%. There also has been some mixed trends around the world where different countries have either had increasing cases or have been stagnant.

In children, asthma is presented predominantly in males until the age of 20, where the disease is equally prevalent. Differences in childhood can be due to atopy, or because boys have a reduced airway size compared to girls. There is a family history component of asthma, as well. However, the genes responsible for inheriting asthma remain unidentified. There are mechanisms of the phenotype of asthma that has a strong correlation of being inherited, but the mechanism is more complex, as asthma does not follow a Mendelian pattern.

Asthma is most likely transmitted by multiple genes, with some variation of locus heterogeneity and polygenic inheritance leading to asthma expression being multifaceted. Atopy or IgE antibodies attack specific antigens or pollutants, which can contribute to the disease. Research has shown that asthma was closely related to the total IgE serum level. Enhanced IgE response to environmental factors such as house dust mites, animal allergens, mold, farm animals, have contributed to sensitize asthma exacerbating its symptoms and attributing to increased airway reactivity. The reason being is that there is increased exposure to these allergens, but less data is available on the causality. Air pollution and the causation of asthma are also less clear; however, there is a relationship with smoking and the increased risk of asthma. Interestingly enough, obesity showed a positive linear relationship between asthma and increased BMI. More research needs to be done to have a clearer picture of the multifactorial disease.

[Sinyor B, & Concepcion Perez, L., (2023), Pathophysiology of asthma. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK551579/>]

1. According to paragraph 1, which term best describes the trends observed in different countries regarding asthma cases?
 - a) uniform
 - b) consistent
 - c) varied
 - d) stable

2. Asthma became widespread in 1990s compared to the previous decade.
 - a) Yes
 - b) No
 - c) Not given
3. What is the complexity associated with the inheritance of asthma according to the passage?
 - a) The genes responsible for asthma inheritance have been identified but are difficult to study.
 - b) Asthma follows a Mendelian pattern of inheritance, making it easy to predict its inheritance.
 - c) The phenotype of asthma has a weak correlation with inheritance.
 - d) Asthma inheritance involves mechanisms that are more complex than a straightforward Mendelian pattern.
4. What is meant by 'phenotype' in paragraph 2?
 - a) observable characteristics of an organism
 - b) severity of asthma among children
 - c) diagnosis process of a condition
 - d) genes that cause asthma
5. What is suggested as a possible reason for the predominance of asthma in males in childhood?
 - a) family history of asthma
 - b) narrow respiratory track
 - c) identified genetic factors
 - d) Mendelian inheritance patter
6. What is the gene which is responsible for causing inherent asthma?
 - a) IgE
 - b) Atopy
 - c) Mendeline
 - d) Not given

7. According to the passage, there is one predominant gene which spreads asthma.
- Yes
 - No
 - Not given
8. What is the relationship between asthma and IgE antibodies?
- IgE antibodies directly cause asthma symptoms.
 - Attacks of IgE antibodies on antigens can cause asthma.
 - There is a correlation between IgE levels and asthma.
 - IgE antibodies have no impact on asthma development.
9. According to the passage, which of the following causes asthma?
- mold
 - smoking
 - IgE
 - Antigens
10. According to paragraph 3, which statement accurately reflects the relationship between enhanced IgE response and asthma exacerbation?
- Enhanced IgE response is the primary cause of asthma exacerbation.
 - Asthma exacerbation leads to enhanced IgE response.
 - The link between an exacerbation of asthma and an elevated IgE response is complex.
 - Asthma exacerbation has no connection to enhanced IgE response.

QUESTION 4: PARAGRAPH WRITING (20 MARKS)

Select one of the topics given below and write a paragraph of about 150-200 words

1. The Impact of Social Media on Youth
2. The Importance of Time Management for Undergraduates
3. Education is a Tool for Social Change