



NATIONAL OFFICERS ACADEMY
Mock-6 for CSS2025
December 2024
GENERAL KNOWLEDGE-I
GENERAL SCIENCE AND ABILITY

TIME ALLOWED: THREE HOURS

PART-II

MAXIMUM MARKS = 80

NOTE:

- i. Part-II is to be attempted on the separate Answer Book.**
- ii. Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.**

PART-II
SECTION-I

Q. No. 2

- a. Briefly explain lipids. What are some major types? What are their functions?
- b. Enlist a few measures for energy conservation and its sustainable use.
- c. What is hydrogen bonding? Give elaborating structures as examples.
- d. Discuss the nervous system of the human body.

Q. No. 3

- a. Explain and draw the structure of the sun.
- b. What is a tsunami? How is it generated? Give examples of a few recent tsunamis.
- c. Discuss environmental pollution. What could be its harmful effects? Give a few measures to curb it.
- d. What is wireless communication? Briefly explain the working of a satellite.

Q. No. 4

- a. What is hepatitis? Explain its causes, symptoms and prevention.
- b. Elaborate a few methods of food preservation.
- c. Explain fertilizers. What are their types?
- d. What is the anatomy of a human tooth?

Q. No. 5

- a. Differentiate between a eukaryotic and a prokaryotic cell.
- b. What is global warming? What is Kyoto protocol?
- c. Write a detailed note on GIS.
- d. Briefly describe antioxidants.

SECTION-II

Q. No. 6

- a. If sum of the 3-digit number is 15. Sum of 10th and unit digit is 12. The difference of the unit digit from 10th digit is equal to 2. What is the three digit number?
- b. A man ordered pizzas of small, medium and large sizes for 18 persons, one slice per person. Each size contains different numbers of slices and the ratio of their slices is 2: 3: 4. If each slice is of 40 gm and the price of a smaller pizza is Rs. 320, find the price and weight of a total pizza.
- c. Diameter of a circle is 6cm. Find circumference and area of circle.
- d. Identify the missing:
 - i. 13,24,46,90,178,_____.
 - ii. 5,6,9,14,21,_____.

Q. No. 7

- a. Distinguish I.Q and E.Q
- b. What is the present age of Aman, if after 20 years, his age will be 10times his age 10 years back?
- c. Peter can mow the lawn in 40 minutes and John can mow the lawn in 60 minutes. How long will it take for them to mow the lawn together?

- d. A person multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$. What is the percentage error in the calculation?

Q. No. 8

- a. The width of a rectangular room is 60% of its length. If the length of the classroom is 15 ft. What are the room's dimensions?
- b. While at the dog park, Veena ran 48ft east then turned and ran 20ft north to reach the water station. If she would have run straight there from where she started, how far would she have run?
- c. In a class, the average marks of 40 students was calculated to be 52.15. It was later discovered that the marks of a student were taken to be 49, instead of 85. Find the average marks of the class.
- d. 37 people like vegetable pizza and 25 like chicken pizza, 3 people like neither. A person was randomly asked about pizza choice. Calculate what is the probability that person likes chicken pizza?

***** *Good Luck for CSS2025******