



**NATIONAL OFFICERS ACADEMY**  
**Mock Exams for CSS 2025**  
**August 2024**  
**GENERAL KNOWLEDGE-I**  
**GENERAL SCIENCE AND ABILITY**

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 INUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>

**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. Define the term malnutrition, elaborate its major causes and consequences.
- b. Differentiate between food contamination and adulteration.
- c. What are computer buses? Differentiate RAM and ROM?
- d. What are geo-stationary satellites? Distinguish natural & artificial satellites, how many artificial satellites of Jupiter are there?

**Q. No. 3**

- a. What is meant by the term double circulation? Briefly describe how the heart is adapted to keep blood flowing in a double circulation.
- b. Liver is a chief chemist. Comment.
- c. Comment, the greenhouse effect is a blessing. Also discuss enhanced greenhouse effect and its relation in global warming?
- d. Write a note on the following  
a) Working of GPS b) Working of Mobile Phone

**Q. No. 4**

- a. What are main causes of floods? How floods of 2022 were different from super floods of 2010? Explain role of NDMA in this regard.
- b. Differentiate star & planet. How a star becomes a black hole?
- c. Why do atoms form chemical bonds? Explain structure of water.
- d. What are conductors, semiconductors, metals, plastics, and ceramics? Give an example of each.

**Q. No. 5**

- a. What is Radioactivity? Differentiate between natural and artificial radioactivity.
- b. What is Polio? Discuss its symptoms, causes of spreading, prevention and vaccine.
- c. Write the steps involved in Solid Waste Management. Discuss the main issues of Solid Waste Management in our country.
- d. What do you understand by the term Population Planning? Highlight the different benefits of Population Planning.

**SECTION-II**

**Q. No. 6**

- a. A primary school had an enrollment of 850 pupils in January 2022. In January 2023, the enrollment was 1120. What was the increase percentage for the enrollment?
- b. A man is 5 times as old as his son, two years ago the sum of squares of their ages was 114, find the present age of his son?
- c. A man has some hens and cows if the no of heads be 48 and no of feet is equal to 140, find the no of hens.

- d. A car runs at a speed of 40 km/h during first half of the journey and at the speed of 60km/h the 2<sup>nd</sup> half of journey. What is the average speed of a car?

**Q. No. 7**

- a. A number is divided by 6 and then 50 is added. If the total is 60, what is that number?
- b. Find the odd one out:  
8, 16, 24,34,40,48
- c. A tower is 15m tall. If I am standing 20m from the base of the tower. What is my aerial distance from the top of the tower?
- d. In a hotel, the tariff for every odd dates is Rs.1000 and for even dates is Rs. 2000. If the man paid total of 30000 in all. For how many days did he stay in the hotel given that the first day is 5th date of the month?

**Q. No. 8**

- a. Faisal Mosque in Islamabad constructed by a Turkish architect with worship halls of a certain geometrical shape. Write the formula for the area of specific shape used as an outer view of worship halls.
- b. In a mixture of 60 liters, the ratio of milk and water is 2:1. If this ratio is to be 1:2, then what is the quantity of water to be further added?
- c. If A is the brother of B and B is the sister of C, C is the father of D. How D is related to A, D being a male member?
- d. In a certain code ROAR is written as URDU. How URDU will be written in that code?

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*We wish you Good Luck for CSS 2025*