



**NATIONAL OFFICERS ACADEMY**  
**Test Series-1(Online) for CSS 2024**  
**Jan.2024, Feb.2024 (Test 5)-Final**  
**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. How black holes are formed? Discuss.
- b. What is octet rule? Explain it in the example of table salt in context of bonding.
- c. Write uses of Microwave, Radio waves and X-rays in daily life.
- d. UK hosted a conference of 28-countries in Nov. 2023 regarding threats of AI. What were the main points of Agenda about the AI?

**Q. No. 3**

- a. How do you see COP-28 held in UAE in comparison to COP-27 in Egypt in bringing climate fund to developing countries to deal with the menace of global warming?
- b. Describe input and output devices of Computer briefly.
- c. Discuss functions of cornea, pupil, convex lens and retina shortly by drawing diagram of Eye.
- d. Discuss different causes of water pollution.

**Q. No. 4**

- a. Distinguish the following terms in one sentence:
  - i) Cyclone and Tornadoes
  - ii) Hypocenter and Epicenter
  - iii) GPS and GIS
  - iv) RAM and ROM
  - v) Pesticides and Insecticides
- b. Three vents were observed in volcano of Iceland in 2023. How volcanic eruption occurs?
- c. Discuss pyrolysis, incineration and composting in Solid Waste Management.
- d. Write a short note on Balanced Diet.

**Q. No. 5**

- a. Discuss structure of Kidney in excretory system.
- b. Discuss different renewable energy sources under CPEC.
- c. Discuss different parts of cell in Human body.
- d. Draw different parts of Solar system including moons of each planet.

**SECTION-II**

**Q. No. 6**

- a. 2-Person A and B share a Pizza in ratio of 5:3. There are pizzas and medium size of slices of each is 8. How much slices each person receive?
- b. A candidate in Election 2024 gets 30% of the total votes polled is defeated by 15000 votes. Find the number of votes of winning candidate.
- c. 40 liters of mixture of milk and water contains 25% of water. When 10 liters of water is added, what will be percentage of milk in the final mixture?
- d. Aslam can do a piece of work in 10-days, Ali in 15-days and Najam in 20-days. How many days will it take if they all work together to do the same piece of work?

**Q. No. 7**

- a. Find the missing terms:
  - i) 11,13,17\_\_\_\_\_23.
  - ii) 10,28,91,370,\_\_\_\_\_.
- b. A cloth merchant bought 35 shirts, each at a price of Rs 280. He sold each of them for Rs. 308. Find the percentage of profit?
- c. Find IQ of a child whose actual age is 10-years and chronological age is 12-years.
- d. The average height of 30 boys was calculated to be 150 cm. It was detected later that one value of 165 cm was wrongly copied as 135 cm. Find the correct mean.

**Q. No. 8**

- a. Sarah walked 10 meters towards east. Then she turned right and walked 3meters. Again, she turned to right and walked 4 meters. How far is she from her initial point?
- b. Find the perimeter of a regular octagon with each side of 5cm and determine the each angle of the octagon.
- c. A box contains 6-Green balls and 10-yellow balls. A ball is picked at random, what is the probability that ball is yellow ball?
- d. In a certain code, MADRAS is coded as NBESBT. How BOMBAY will be coded in that code?

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*We wish you Good Luck for CSS 2024*