



**National Officers Academy**  
**Mock Exams for CSS-2021**  
**November Mocks**  
**GENERAL KNOWLEDGE-I**  
**(GENERAL SCIENCE AND ABILITY)**

TIME ALLOWED: THREE HOURS PART-I(MCQS): MAXIMUM 30 MINUTES	PART-I (MCQS) PART-II	MAXIMUM MARKS = 20 MAXIMUM MARKS = 80
<b>NOTE:</b> i. <b>Part-II</b> is to be attempted on the separate <b>Answer Book</b> . ii. Attempt <b>ONLY FOUR</b> questions from <b>PART-II</b> by selecting <b>TWO</b> questions from <b>EACH SECTION</b> . <b>ALL</b> questions carry <b>EQUAL</b> marks.		

**SUBJECTIVE PART — PART-II**  
**SECTION-I**

**Q No. 02**

- a. What is the process of ozone depletion? (5)
- b. Who discovered the Green House effect? How Green House effect is contributing towards global warming?(5)
- c. Draw the structure and functions of human eye? (5)
- d. Give a brief account on the atmosphere? (5)

**Q No. 03**

- a. Explain the structure and functions of cell? (10)
- b. Explain the structure and functions of the different parts of human brain? (5)
- c. What are the vitamins? How they are important? (5)

**Q No. 04**

- a. How does an optical fiber work? Give some uses (5)
- b. Write a note on artificial intelligence. (5)
- c. What are eclipses? Distinguish solar and lunar eclipse. (5)
- d. How black holes are formed? (5)

**Q No. 05**

- a. What is Coriolis Effect in cyclones? Differentiate cyclones and twisters (5)
- b. Discuss some non-renewable sources of energy. (5)
- c. Distinguish hypocenter and epicenter. Explain plate tectonics briefly. (5)
- d. Differentiate RAM and ROM. (5)

**SECTION-II**

**Q. No. 6**

- A. Ali tells Sidra “your mother’s husbands’ sister is my aunt” what is Sidra’s relation to Ali?
- B. Look at the alphabetic series, which letters will complete the series: ADE: FIJ:: KNO: \_\_\_\_\_
- C. In a morning walk three persons step-off together. Their step measure 75cm, 80cm & 90cm respectively. What is the minimum distance each should walk so that all can cover the same distance?

D. A bag contains 8 yellow balls, 9 red balls and 7 blue balls. What is the probability that ball is neither red nor blue when only ball is picked?

**Q. No. 7**

- A. Average of 5 terms is 50. If the first four terms are 45, 42, 119 and 84. What will be the last term?
- B. Art and Rita can do a job in 8 hours. Art can do the job alone in 12 hours. In how many hours Rita do the job alone?
- C. The perimeter of a square is 188cm. what is the length of each side?
- D. A snail crawls about 2ft in 1 hour. How many minutes will it take to crawl 7 inches? (1 feet = 12 inches)

**Q. No. 8**

- A. An automobile travels 3km towards south, 4km towards west, 5km towards north & 2km towards south-east. How far is it from starting position?
- B. Tahir started a business with a capital of Rs 15000. After 5 months Umar also joined him with an investment of 30,000. At the start of 9<sup>th</sup> month Usman joined them by investing 45000. At the end of year, they earned a profit of 406000. Find the share of each.
- C. In a certain code CERTAIN is written as BFQUZJM. How MUNDANE be coded?
- D. Differentiate primary and secondary mental abilities.

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*Best of Luck for CSS-2021*