



NATIONAL OFFICERS ACADEMY
Mock Exams CSS-2022
April 2022 (Final Mock)
GENERAL KNOWLEDGE-I
GENERAL SCIENCE AND ABILITY

TIME ALLOWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20
PART-I(MCQS): MAXIMUM 30 INUTES	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. The doctor of the future will no longer treat humans with drugs but rather will cure and prevent diseases with nutrition. Explain?
- b. Distinguish composting, incineration, and pyrolysis in solid waste management.
- c. Explain in a single sentence
 - a) Computer buses
 - b) Motherboard
 - c) RAM
 - d) Microphone
 - e) Geostationary satellites
- d. Distinguish N-type and P-type semiconductors. Semiconductors are the brain of modern electronics. Comment.

Q. No. 3

- a. What causes a cyclone? In which part of cyclone winds are the strongest and destructive?
- b. What is a black hole and how is it formed?
- c. Discuss the rotation and revolution of the earth, and its structural parts.
- d. Distinguish ionic and covalent bonds with examples.

Q. No. 4

- a. What are the causes of water pollution?
- b. What are the goals of the Glasgow climate pact?
- c. Give any 5-uses of remote sensing.
- d. Discuss any 5-applications of artificial intelligence.

Q. No. 5

- a. Give structure and functions of human eye.
- b. What is digestive system? What is the role of small intestine in digestion?
- c. Write a short note on Vitamins.
- d. Describe the functions of pituitary glands.

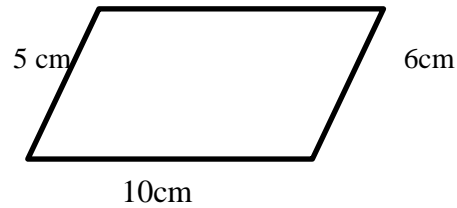
SECTION-II

Q. No. 6

- a. 172 is considered to be magic number for a no-confidence motion for the premier in the national assembly of Pakistan. 172 is what percent of total numbers of NA?
- b. A family consists of 2 grandparents, 2 parents and 3 children. Average age of grandparents

Is 67 years, that of parents is 35 years and that of grandchildren is 6 years. What is the average age of the family?

c. What is the area and perimeter of the below figure :



d. Asghar left a property worth of 4, 80,000, find the share of his widow, three sons, and 4 daughters?

Q. No. 7

a. Yasir is 15 years older than Zia. 5 years ago Yasir was 3 times as old as Zia. Find the present age of Yasir?

b. Find the missing one:

7, 26, -----, 124

c. If $\tilde{U} = \{1, 2, 3, 4, 5, 6, 7, 8\}$

and $A = \{2, 3, 5, 7\}$

Find $A \tilde{U} A^c$

d. Define the following

A. Arithmetic mean

B. IQ

C. EQ

D. Range of DATA

E. Histogram and

pictogram

Q. No. 8

a. A travels 35 km towards the west, takes a right turn and travels 50 km more next, she takes another right turn and travels 35 km in that direction. How far is she from her original position?

b. If A is the husband of B and C is the mother of D and B. How is C related to A?

c. If SUMMER is written as RUNNER, how WINTER will be coded in the same code?

d. 7 persons live in a street, having a house in a line. Consider the following:

1- A lives in the corner's house

2- C is in between E and G

3- There is one house between D and F

4- F is neighbor of G

5- There are two houses between A and G

Who lives in the 2nd corner?

***** We wish you Good Luck for CSS-2022*****