NATIONAL OFFICERS ACADEMY
Mock Exams for CSS-2025
May 2024 (Mock-1)
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. Differentiate Climate and Environment. What are the causes of air pollution in Pakistan?
   b. Write a note on Vitamins and their role in Human body.
   c. Compare goal of COP-27 and COP-28 on climate change.
   d. What are Active and Passive sensors? How these are used in G.I.S?

Q. No. 3
   a. What are buses? Discuss their types in Computer. Also draw block diagram of input and output devices of Computer.
   b. Define optics. How does an optical fiber work?
   c. Define the following terms:
      i. Hypocenter   ii. Annular Lunar Eclipse
      iii. Epicenter   iv. Magma   v. Dark Matter
   d. Differentiate Big Bang and Big Crunch. How age of the Universe is measured?

Q. No. 4
   a. Draw the structure of Eye. How Myopia and Hyperopia can be corrected?
   b. Discuss different units in the Human Cell.
   c. What are Galaxies? Give its types. Are galaxies moving or at rest? Justify with evidence.
   d. Compare main parts of the Sun and Earth.

Q. No. 5
   a. How Cyclones are formed? Discuss.
   b. Differentiate Ionic and Covalent bond.
   c. Give uses of Gamma Rays, X-Rays and Radio waves.
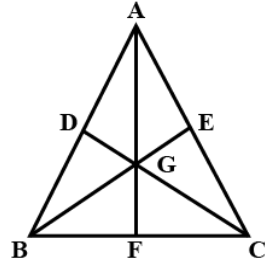   d. What are the tides? Write a note on L.E.D.

SECTION-II

Q. No. 6
   a. Radius of cylinder is 8cm and height is 15cm. Find its volume.
   b. Al Aqsa Mosque in Jerusalem, Israel has a dome of rock in regular octagonal shape. What will be the angle of each side?
   c. Maximum length and depth of Dal Lake in Srinagar is 4.6 mile and maximum width is 2.2mile. Find surface area of Dal Lake.
   d. A ladder is leaning against the side of a 10m tall house. If the base of the ladder is 3m away from the house, how tall is the ladder?

Q. No. 7

a. A person multiplied a number by 3/5 instead of 5/3. What is the percentage error in the calculation?
b. If ratio of chocolates to ice cream cones in a box is 5:8 and the number of chocolates is 30. Find the ice-cream cones.
c. A tablet contains 30mg of medication. How many tablets will be needed to provide Ms. Smith with 240mg of medications?
d. The average of 50 numbers is 20. If two numbers are 37 and 43 are discarded, what is the average of the remaining numbers?

Q. No. 8

a. Write the formula of I.Q. What are the factors which can affect I.Q?
b. Find the number of triangles in the below equilateral triangle:

c. A letter is chosen at random from the word "Superintendent". What is the probability that word is vowel?
d. Distribute Rs.4320 among Zain ,Aslam and Ashraf in such a way that if Zain gets 2-parts then Aslam gets three parts, whereas Ashraf gets seven parts.

***** *We wish you Good Luck for CSS-2025*****