TIME ALLOWED: THREE HOURS	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. Discuss key features of COP-28 held in UAE in Nov-Dec.2023 in context of Loss and Damage fund and some other financial issues of developing countries.
  b. What is Solid Waste Management? Discuss different methods.
  c. Write a note on Balanced diet.
  d. Discuss any three renewable energy resources under CPEC.

Q. No. 3
  a. Discuss different parts of eye. How far-sightedness & short-sightedness can be corrected?
  b. How does a Kidney work? Explain with diagram.
  c. How Black Holes are formed?
  d. What are isotopes, isobars and isotones? Give examples of isotopes of Hydrogen.

Q. No. 4
  a. How earthquakes are generated? Distinguish with Tsunami.
  b. What is Coriolis force? How Hurricanes are generated?
  c. Distinguish Solar & Lunar Eclipses.
  d. What is doping in Semi-Conductors. Discuss different types of Ceramics.

Q. No. 5
  a. Distinguish between RAM and ROM. Also define Nibble and USB.
  b. How AI has revolutionized the world? Justify.
  c. How does an optical fiber work? Write some of its advantages.
  d. What is critical speed of a Satellite? Differentiate Geo-Stationary and Polar Satellites.
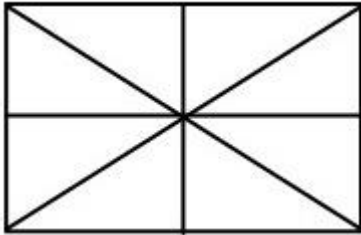
SECTION-II

Q. No. 6
  a. Five years ago age of father was thrice the age of son. If son is 30 years old now .What is current age of father?
  b. Mean of 10, 30, Y, and 50 is 50. What is value of Y?
  c. Find the missing terms:
      i.   2,6,18,54,_____.
      ii.   3125,256,_____,4,1.
  d. If the product of two numbers is 320 and their ratio is 1:5. What is the difference between the squares of these two numbers?

Q. No. 7

a. A woman sold two scooties for 96000 each. In the sale of the first scooty, he got 20% profit and in the sale of the second, he got 20% loss. What is the gain or loss percentage in total?

b. 195 men working 10 hours a day can finish a job in 20 days. How many men are employed to finish the job in 15 days if they work 13 hours a day?

c. If A={a, e, i, o, u}, U={a,b,c --------z}. Find **A'.**

d. A square pyramid has volume of 372 cm^3 & height is 3km., determine the perimeter of its base.

Q. No. 8

a. A crow travels south 5km, and then 3km west, and then 4km north. Finally travels 2km south-east. How far is the crow from initial point?

b. A pizza is divided into 8 slices in which 3slices contain raisin in it; Shiza picks a slice, what is the probability that she will pick a slice with raisin?

c. Find the number of triangles in the following figure:

d. Discuss the factors which can affect IQ.

***** *Good Luck for CSS2024* *****