Mock Test Series Batch-Online
CSS-2025 (January 2025)
GK-I (General Science & Ability) Test-3
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INSTRUCTIONS
SOLVE Any *TWO* of the following questions
ALLOCATE 40 minutes to each question
ANSWER all parts of the question
ASSIGN proportionate weightage to each part
Each question carries *TWENTY* marks

Test 3
Question 1

A) Explain the working principle of optical fiber. Enlist the main importance of fiber optics.
B) Explain the cell phone communication through a block diagram.
C) Briefly explain satellite. Define the working principle of GPS.
D) Differentiate between RAM and ROM.(5)

Question 2

A) Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is?
B) Three partners shared the profit in a business in the ratio 5 : 7 : 8. They had partnered for 14 months, 8 months and 7 months respectively. What was the ratio of their investments?
C) The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is?
D) Find a positive number which when increased by 17 is equal to 60 times the reciprocal of the number.

Question 3

A) The percentage profit earned by selling an article for Rs. 1920 is equal to the percentage loss incurred by selling the same article for Rs. 1280. At what price should the article be sold to make 25% profit?
B) A can do work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is?
C) A person's present age is two-fifth of the age of his mother. After 8 years, he will be one-half of the age of his mother. How old is the mother at present?
D) A student multiplied a number by 3/5 instead of 5/3. What is the percentage error in the calculation?