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Kendrapara DC Junior Clerk/ Copyist

Previous Year Paper

(Arithmetic)

15 Dec, 2024

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DISTRICT COURT: KENDRAPARA
WRITTEN EXAMINATION-2024
FOR THE POSTS OF JR. CLERK-CUM-COPYISTS
SUBJECT: ARITHMETIC

Time: ONE HOUR **FULL MARKS: 100**

[Answer All the Questions. Each question carries 10 (Ten) marks]
(The candidates may use the last two sheets as Rough Sheets)
(Use of mobile or any electronic gadget is not permissible)
The Candidates may use algebraic method to solve the problems

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1. The price of commodity X increases by 40 paise every year, while the price of commodity Y increases by 15 paise every year. If in 2001, the price of commodity X was Rs. 4.20 and that of Y was Rs. 6.30, in which year commodity X will cost 40 paise more than the commodity Y?

2. A rectangular field of dimension 180m x 105m is to be paved by identical square tiles. Find the size of each tile and the number of tiles required.

3. An investment doubles itself in 15 years if the interest is compounded annually. How many years will it take to become 8 times?

4. A sum of money amounts to Rs. 669 after 3 years and to Rs.1003.50 after 6 years on compound interest. Find the sum.

5. Difference of two numbers 'x' and 'y' is 100. Also, 10 % of 'x' is equal to 15 % of 'y'. Find the numbers.

6. In an examination, 80% of the students passed in English, 85% in Mathematics, and 75% in both English and Mathematics. If 40 students failed in both subjects, find the total number of students who appeared in the examination.

7. A shopkeeper gives two successive discounts of 20 % and 10 % on surplus stock. Further, he also gives a 5 % extra discount on cash payments. If a person buys a shirt from the surplus stock and pays in cash, what overall discount percent will he get on the shirt?

8. Three friends started a business. A invests 2000 for a year, B invests 4000 for 9 months. C invests an amount of 10000 in the business for 2 months only. At the end of the year, they make a profit of 11200. Find the profits of A, B and C.

9. Two stations B and M are 465 km distant. A train starts from B towards M at 10 AM with a speed of 65 km/hr. Another train leaves from M towards B at 11 AM at a speed of 35 km/hr. Find the time when both trains meet.

10. Walking at the speed of 5 km/hr from his home, a geek misses his train by 7 minutes. Had he walked 1 km/hr faster, he would have reached the station 5 minutes before the actual departure time of the train. Find the distance between his home and the station.

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