RURAL DEVELOPMENT DEPARTMENT
GOVERNMENT OF MIZORAM
Examination for Recruitment under MGNREGA

Additional Programme Officer

PAPER – II 'A'
Section A: SIMPLE ARITHMETIC

Time Allowed: *Maximum Marks: 30*

Please read each of the following instructions carefully before attempting questions:

1. *All the Questions are to be attempted.*

2. *The number of marks carried by a question/part is indicated against it.*

3. *You must not disclose your identity in any of your answers.*

4. *Any page or portion of the page left blank in the Answer booklet must be clearly struck off.*

Q. I. **Choose the correct answer from the following questions: (10 X 1 = 10)**

1. A ratio 4 : 5 equals
   a. 70%
   b. 75%
   c. 80%
   d. None of the above

2. If A can do a piece of work in n days, the work done by A in 1 day equal to:
   a. $1 \div n$
   b. $1n$
   c. $A \div n$
   d. None of the above

3. In an examination a candidate has to secure 40% marks to pass. A candidate secures 400 marks and fails by 200 marks. Find the total number of marks in the examination.
   a. 600
   b. 1000
   c. 1500
   d. None of the above

4. 4 boys and 4 girls spent Rs.150 on the average, of which the boys spent Rs.160 on the average. Then the average amount spent by the girls is:
   a. 140
   b. 160
   c. 150
   d. None of the above

5. In a 2-digit number, the unit digit is four times the tens digit and the sum of the digits is 10. Find the number.
   a. 14
   b. 28
   c. 36
   d. None of the above

6. The sum of four consecutive even numbers is 772. The smallest among them is:
   a. 188
   b. 190
   c. 192
   d. 184

7. If Sanga's salary is 20% less than that of Mawia, then how much percent is Mawia's salary more than Sanga's?
   a. 25%
   b. 20%
   c. 80%
   d. None of the above

8. Bawiha sells two shirts for Rs.1955 each, gaining 15% on one and losing 15% on the other. Find his gain or loss per cent in the whole transaction.
   a. Gain 2 ½%
   b. Gain 2 ¼ %
   c. Loss 2 ¼ %
   d. Loss 2 ½ %

9. Jacob covers 10.5 km in 3 hours, find the distance covered by him in 8 hours.
   a. 28 km
   b. 25 km
   c. 30 km
   d. None of the above

10. What number must be added to each of the numbers 19, 68, 1 and 8, so that the new numbers are in proportion?
    a. 3
    b. 2
    c. 5
    d. 4

Q. II. Answer any five (5) from the following questions: (5 X 4 = 20)

1. Find the rate of interest per annum at which the sum of Rs.2400 will amount to Rs.2646 in 2 years, compounded annually.

2. A car was purchased 4 years ago. The value of the car depreciates at the rate of 10% per annum. If its present value is Rs.6,56,100, what was its purchase price?

3. A and B can finish a piece of work in 18 days; B and C in 24 days while C and A in 36 days. In how many days will A, B and C finish it, working together? In how many days will each of them finish it, working alone?

4. The length of the shadow of a 3 m high pole at a certain time of the day is 3.6 metres. Find the height of another pole, whose shadow at that time is 54 metres long.

5. A flat is available for Rs.16,00,000 cash or Rs.5,85,500 cash down payment and three equal half yearly payments. If the rate of interest is 16% per annum, compounded half-yearly, calculate the value of each instalment. Also, find the interest to be paid.

6. A loan has to be paid back in two equal annual instalments. If the rate of interest is 15% per annum, compounded annually, and each instalment is Rs.2645, find the loan and total interest charged.

7. A train travels first half between two places A and B with a speed of 40 km/h and rest of the half distance with a speed of 60 km/h. Find the average speed of the train.

8. The sum of the digits of a two-digit number is 15. The number obtained by interchanging its digits is 9 more than the original number. Find the original number.

9. By selling 33 m of cloth, Muanpuii loses an amount equal to the selling price of 3 m of cloth. Find her gain or loss percent.

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