UNIVERSITY OF THE PUNJAB
B.S. 4 Years Program : Third Semester – 2020

Paper: General Mathematics
Course Code: EDE-109   Part – I (Compulsory)   Time: 30Min. Marks: 10

Roll No. in Fig. ....

Roll No. in Words. ....

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Signature of Supdt.:

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Attempt this Paper on this Question Sheet only.
Division of marks is given in front of each question.
This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

1. Two automobiles are 150 kilometers apart and traveling toward each other. One automobile is moving at 60km/h and the other is moving at 40km/h mph. In how many hours will they meet?
   a. 2.5
   b. 2.0
   c. 1.75
   d. 1.5

2. The average of 1st 3 of 4 numbers is 16 and of the last 3 are 15. If the sum of the first and the last number is 13. What is the last numbers?
   a. 8
   b. 6
   c. 5
   d. 2

3. Three years ago the average age of a family of six members was 19 years. A boy have been born, the average age of the family is the same today. What is the age of the boy?
   a. 1 year
   b. 1.5 years
   c. 2 years
   d. 2.5 years

4. Find the least multiple of 13 which when divided by 6, 8 and 12 leaves 5, 7 and 11 as remainders respectively? A. 143 B. 169 C. 260 D. 221
   a. 143
   b. 169
   c. 260
   d. 221

5. Find the least number which when divided by 35 leaves remainder 25, when divided by 25 leaves remainder 15 and when divided by 15 leaves remainder 5?
   a. 420
   b. 515
   c. 435
   d. 518

6. The sector of a circle has radius of 21 cm and central angle 135o. Find its perimeter?
   a. 91.5 cm
   b. 93.5 cm
   c. 94.5 cm
   d. 92.5 cm

7. A, B and C together earn Rs.150 per day while A and C together earn Rs.94 and B and C together earn Rs.76. The daily earning of C is:_____?
   a. 10 Rs.
   b. 15 Rs.
   c. 20 Rs.
   d. 25 Rs.

8. A bag contains equal number of Rs.5, Rs.2 and Re.1 coins. If total amount in the bag is Rs.1152, find the number of coins of each kind?
   a. 432
   b. 288
   c. 144
   d. 72

9. The Total cost of flooring a room at Rs.8.50 per square meter is Rs.510. If the length of the room is 8km its breadth is_____?
   a. 7.5m
   b. 8.5m
   c. 10.5m
   d. 12.5m

10. Total area of the 64 small squares of aches board is 400cm2. There is 3cm wide border around the chess board. What is the length of each side of the chess board?
    a. 17cm
    b. 20cm
    c. 23cm
    d. 26cm

UNIVERSITY OF THE PUNJAB
B.S. 4 Years Program : Third Semester – 2020

Roll No. ....

Paper: General Mathematics
Course Code: EDE-109   Part – II

Time: 2 Hrs. 30 Min.   Marks: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED
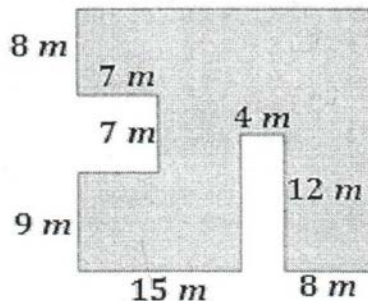
Q.2.   Give short answers of the following: **(5x4=20)**

1. If 3 kg of fertilizer will cover 150 m² of lawn, how many square meter will be 5 kg of fertilizer cover?

2. For a four-year loan of Rs. 400000/- at 7% interest, a bank requires a monthly payment of $95.75. What is the monthly payment for a similar loan of Rs. 1,000,000/-?

3. Jamil is making a soup for a large group of scouts. Her recipe call for $2\frac{1}{2}$ kg of chicken in 100 cups of soup. How many kg of chicken is required to prepare a 350 cups of soup?

4. If 3 kg of swat peaches sell for Rs. 264, what is the cost of 20 Kg of peaches?

5. Which is the best buy:

   a.   89-gm box of finger chips for Rs. 27.9 or

   b.   14-gm box of finger chips for Rs. 34.9 or
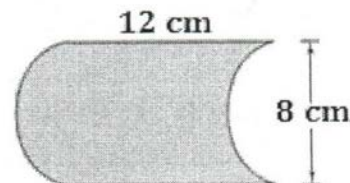
   c.   18-oz box of finger chips for Rs. 37.9?

Q.3.   Answer the following questions.   **(2x15=30)**

1. Find the perimeter and area of the shaded regions.

a
b

2. a.   The perimeter of a rectangle is 38 cm. The length of the rectangle is 2cm less than twice the width. Find the length and width of the rectangle.
   b.   The difference between four times a number and twice the number is twelve. Find the number.
3. a.   The difference between a number and two times the number is nine. Find the number.
   b.   Five less than three times a number is sixteen. Find the number.