K25FY3066 Pages: 2 Reg No:.....
Name:.....

Third Semester FYUGP Degree (Reg) Examination November 2025

KU3VACMAT201 - QUANTITATIVE ARITHMETIC

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Instructions : Use of calculator is not permitted.

Section A

Answer any 6 questions. Each carry 2 marks.

1. Check whether 4832718 is divisible by 11.
2. Check whether 78696 is divisible by 5.
3. A TV is sold for Rs. 13000 at a gain of 10%, what is the cost price of the TV?
4. The owner of a cell phone charges his cutomer 23% more than the cost price. If a customer paid Rs 7011 for the cell phone, what was the actual cost of the cell phone?
5. Find the average of first 5 multiples of 3.
6. Express 56% as a fraction.
7. If A can do a piece of work in 10 days, what work can A do in 2 days?
8. How many mintes does Aditya take to cover a distance of 400 metres, if he runs at a speed of 20km/hr?

Section B

Answer any 4 questions. Each carry 6 marks.

9. If the average weight of section A of 36 students is 40kg and that of section B of 44 students is 35kg, then find the average weight of the whole class.
10. Find the average of first 40 odd numbers.
11. The ratio of ages of Tina and Rakesh is 9:10 respectively. Ten years ago, the ratio of their ages was 4: 5 respectively. What is the present age of Rakesh?
12. A alone can complete a piece of work of Rs 300 in 6 days, but by engaging an assistant, the work is completed in 4 days. Find the share to be received by the assistant.
13. A dog takes 4 leaps for every 5 leaps of a hare but 3 leaps of a dog are equal to 4 leaps of the hare. Compare their speeds.

14. Peter can cover a certain distance in 1 hr 24 minutes by covering two-third of the distance at 4kmph and the rest at 5kmph. Find the total distance.

Section C

Answer any 1 questions. Each carry 14 marks.

15. (a) Seema, Meena and Reema begin to jog around a circular stadium and they complete their revolutions in 54 seconds, 42 seconds and 63 seconds respectively. After how much time will they come together at the starting point?

    (b) Find the smallest number which when subtracted from 10000, the remainder is divisible by 32,36,48 and 50.

16. (a) By how much above the cost should the goods be marked for sale so that after allowing a trade discount of 20 % and a cash discount of $6\frac{1}{4}\%$, a net gain of 20% on the cost is made?

    (b) When a producer allows 36% commission on the retail price of his product, he earns a profit of 8.8%. What would be the profit percentage if the commission is reduced by 24% ?