First Semester FYUGP Mathematics Examination NOVEMBER 2024 (2024 Admission onwards) KU1MDCMAT101 (MATHEMATICS IN REAL LIFE) (DATE OF EXAM: 29-11-2024)

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Г	art A (Answer any 6 questions. Each carries 2 marks)	0
1.	7589 - ? = 3434.	2
2.	Compute the average of first two odd primes.	2
3.	Define selling price and cost price.	2
4.	If 15 toys cost Rs 234, compute the cost of 35 toys.	2
5.	When do you say that two quantities are directly proportional?	2
6.	If A can do a piece of work in 10 days, then calculate A's two day's work.	2
7.	If A can do a piece of work in 3 days, calculate A's one day's work.	2
8.	Suppose a woman covers a certain distance at 3 km/h and an equal distance a km/h. Compute the average speed during the whole journey.	at 4 2
	Part B (Answer any 4 questions. Each carries 6 marks)	
9.	Find the H.C.F of 35 and 80.	6
10.	The average of four consecutive even numbers is 27. Find the largest of the numbers.	nese 6
11.	(a) A man buys an article for Rs. 250 and sells it for Rs. 290. Calculate his g percent	ain
	(b) If a radio is purchased for Rs. 490 and sold for Rs. 465.50. Calculate the percent.	loss
		6
12.	The price of 357 mangoes is Rs. 1517.25. calculate the price of 1000 mangoes.	6
13.	A is twice as good a workman as B and together they finish a piece of work in days. In how many days will A alone finish the work?	18 6
14.	A train is moving at a speed of 132km/h. If the length of train is 110 m, calcul the time taken by the train to cross a railway platform 165 m long.	late 6
	Part C (Answer any 1 question(s). Each carries 14 marks)	

15. (a) How many natural numbers are there between 17 and 80 which are divisible by 6?

- (b) SImplify $\frac{789 \times 789 \times 789 + 211 \times 211 \times 211}{789 \times 789 789 \times 211 + 211 \times 211}$.
- (c) Two numbers are in the ratio 15:11. If their H.C.F is 30, find the numbers.

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- 16. (a) The average of 5 consecutive odd numbers is 61. Calculate the difference between the highest and lowest numbers.
 - (b) If 120 is 20% of a number, then find the 120% of that number.

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