QP Code: U24A029		Reg. No	:	••••••
		Name	:	••••••
	ST MARY'S COLLEGE (AUTONOMO	US), THRIS	SUR-20	ı
I SE	MESTER B.A/B.Sc /B.Com/BBA/BCA/BSW (FYU November 2024	UGP) DEGR	EE EXA	AMINATION,
	MAT1FM105(2):MATHEMATICS FO EXAMINATIONS - PAI		ITIVE	
	2024 Admission Onwar	·ds		
	(Credits: 3)			
Гime : 1	.5 Hours		Ma	aximum Marks : 50
	Section A [Answer all. Each question carries 2 Marks]	(Ceiling: 16	(Marks)
1.	What is the next term in the series 7,11,13,17,19,			[BTL3]
2.	353.5 + 2.32 + 43.23 = ?			[BTL1]
3.	Find the square of 34.			[BTL2]
4.	What will be the duplicate ratio of 2:7?			[BTL1]
5.	What will be the mean proportional between 4 and 25 ?			[BTL3]
6.	20% of 300 = ?			[BTL2]
7.	Vandana completes a work in 35 days. What work will s	he do in 1 day	?	[BTL4]
8.	A train covers a distance of 200 km with a speed of 10 train to cover this distance.	km/h. What tir	ne is tak	en by the [BTL4]
9.	A train covers 85 m in passing a signal post. What is the	length of the t	rain?	[BTL5]
10.	$\sqrt{\frac{2704}{81}} = \dots ?$			[BTL2]
	Section B			
	[Answer all. Each question carries 6 Marks]	(Ceiling: 2	4 Mark	s)
11.	(a) Which one of the fractions is largest among $\frac{2}{3}$, $\frac{3}{4}$, $\frac{4}{3}$, $\frac{5}{4}$ (b) Find the HCF of $\frac{36}{51}$ and $3\frac{9}{17}$. Justify your a	ınswer.	[BTL2]
12.	(a) Which is greater between 5: 8 and 9: 14 (b) Find the average of the following set of scores; 253, 124, 255, 534, 836, 375, 101, 443, 760			[BTL1]
13.	What will be the selling price of an article, if two success and 12% are offered on its marked price of Rs.25500?	sive discounts	of 15%	[BTL4]

[BTL5]

- 14. In 55 year, Kim will be 12 times as old as she is right now. What is her current age?
- 15. A person covers a distance of 12 km, while walking at a speed of 4 km/h. How much [BTL3] distance he would cover in same time, if he walks at a speed of 6 km/h?

Section C

[Answer any one. Each question carries 10 Marks] (1x10=10 Marks)

16. (a) What is the sum of face value and place value of 7 in the number 3728456?

[BTL3]

(b) Evaluate
$$43 - [20 \div \{18 - (16 - 12 \div \overline{2 + 4})\}]$$

(c) Solve
$$\frac{(9.8)^3 - (6.8)^3}{(9.8)^2 + 9.8 \times 6.8 + (6.8)^2}$$

- 17. (a) A table is bought for Rs.1500 and sold at a loss of 6%. Find its selling price. [BTL4]
 - (b) Amit takes some loan from Akash for 2 year at the rate of 5% per annum and after 2 year he gave back Rs.6600 to Akash and completed the payment of his loan. Find the interest paid by Amit.
 - (c) What sum of money at compound interest will amount to Rs.4499.04 in 3 year, if the rate of interest is 3% for the 1st year, 4% for the 2nd year and 5% for the 3rd year?

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