

GOVERNMENT OF MIZORAM LOCAL ADMINISTRATION DEPARTMENT

- awm
- 3. Question tinin mark hnih zel a pu.
- 4. A kawmah hian i Roll No. chiah ziak ang che.

EXAMINATION FOR RECRUITMENT TO THE POST OF SA 2024 PAPER II SIMPLE ARITHMETIC FULL MARKS: 100 TIME ALLOWED: 3 HOURS Candidate tana hriat tur 1. A dik zawnah "√" thai tur. 2. Thlan tur zingah hian answer dik pakhat chiah a Signature of Invigilator _____ CODE NO. (LAD Office dah khah tur)

Roll	No.	
IVII	110.	

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PAPER II

SIMPLE ARITHMETIC

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(LAD Office dah khah tur)

No. of correct answers	Marks carried by one question	Marks Obtained
	2	

Chhanna endiktu signature

1. Mawia and Rama can do a piece of work in	6. A man covers half of his journey at 6 km/h
12 days and Mawia alone can do it in 18	and the remaining half at 3 km/h. Find his
days. In how many days can Rama alone do	average speed.
it?	A) 4.5 km/h ()
A) 32 days ()	B) 4 km/h
B) 24 days ()	C) 3.8 km/h
C) 36 days ()	D) None of these
	D) Notice of these
D) None of these ()	7 7 : 1 1 \$ 50,000 C
• • • • • • • • • • • • • • • • • • • •	7. Zonuni borrowed ₹ 50,000 from a
2. Zuala can do a piece of work in 10 days	moneylender. After 4 years, she repaid a total
and Sanga can do the same work in 12 days.	of ₹ 61,250. Calculate the rate of simple
How long will they take to finish the work, if	interest
both work together?	A) 7.5%
	B) 6.2%
A) $5\frac{2}{3}$ days ()	C) 5.6%
$\frac{1}{3}$ days	D) None of these
_	2)1.0110 01 111000
B) $5\frac{5}{11}$ days ()	8. A sum of money doubles itself in 8 years
, 11	when invested at a certain rate of simple
-> - 5 .	1
C) $7\frac{5}{11}$ days ()	interest. How long will it take for the same
	amount to quadruple (4 times) at the same
D) None of these ()	rate of interest?
	A) 36 years ()
3. If 6 men or 8 women can reap a filed in 86	B) 24 years ()
days, how long will 14 men and 10 women	C) 12 years ()
•	D) None of these ()
take to reap it?	
A) 18 days ()	9. Find the compound interest on ₹ 8000 for 2
B) 36 days ()	years compounded annually at 6%.
C) 24 days ()	A) ₹ 988.80 ()
D) None of these ()	B) ₹ 899.9 ()
4. Express a speed of 30 m/s in km/h.	C) ₹ 712.8 ()
A) 108 km/h ()	D) None of these ()
B) 120 km/h	
C) 110 km/h	10. Determine the area of a triangle with a
D) None of these ()	base of 10 cm and a height of 12 cm.
b) I tone of these	A) 120 cm^2 ()
5. Muanpuia drives his car at two different	B) 1200 cm^2
<u> </u>	C) 90 cm^2
speeds to his office, resulting in different	D) 60 cm^2
travel times. At a speed of 30 km/h, he arrives	11. The length and breadth of a rectangular
8 minutes late, while at 45 km/h, he arrives 2	field are in the ratio 5:4, and its area is 720
minutes early. Determine the distance	square metres Calculate the cost of planting
between Muanpuia's home and his office.	1 -
A) 15 km ()	grass over the entire area at a rate of ₹ 12 per
B) 20 km	square meter.
C) 12 km	A) ₹ 7250 ()
D) None of these ()	B) ₹ 9680 ()
- / - · ()	C) ₹ 8640 ()
	D) None of these ()

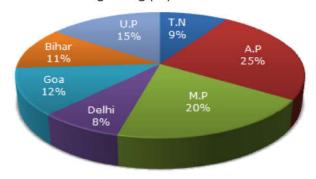
12. Find the radius of a circle whose	19. If a number is divided by 133, the
circumference is 396 cm.	remainder is 21. If this number is divided by
A) 63 cm ()	19, then the remainder will be
B) 198 cm ()	A) 1 ()
C) 99 cm ()	B) 2
D) None of these ()	C) 5
	D) 9 ()
13. The volume of a water tank is 4320 m ³ ,	
with a length of 20 m and a breadth of 18 m.	20. J. Lalrosanga's monthly income is three-
Calculate the depth of the tank.	fourth of Lalsangliana's income.
A) 15 m ()	Lalsangliana's income is ₹ 38000. What is J.
B) 12 m	Lalrosanga's annual income?
C) 10 m	$A) \not\equiv 4.32 \text{ lakh} $
D) 9 m	B) $\stackrel{?}{\underset{\sim}{=}} 2.52 \text{ lakh}$
	C) ₹ 3.42 lakh
14. The diameter and height of a cylindrical	D) ₹ 5.62 lakh ()
water tank are 3.5 m and 3 m, respectively.	2) (0.02 1
Calculate the volume of water it can hold.	21. What is the difference between the sum of
A) 27,580 litres ()	the cubes and that of the squares of first ten
B) 31,250 litres ()	natural numbers?
C) 28,875 litres ()	A) 1080 ()
D) None of these	B) 2640 ()
D) Notice of these	C) 2620 ()
15 In havy many different years can the	
15. In how many different ways can the	D) 1980 ()
letters BAWIHTEI be arranged?	7
A) 18030 ()	22. Express $\frac{7}{50}$ as decimal number.
B) 20160 ()	A) 1.4 ()
C) 34680 ()	B) 0.14 ()
D) None of these ()	C) 14 ()
16	D) 0.014
47. Find the number of ways in which 6	D) 0.014
different beads can be arranged to form a	23. What should come in place of the
necklace?	question mark in the following number
A) 60 ()	<u> </u>
B) 120 ()	series?
C) 180 ()	6, 4, 5, 11, 39, ?
D) None of these ()	A) 169 ()
	B) 179 ()
17. Which of the following is a prime	C) 189 ()
number?	D) 209 ()
A) 189 ()	24. Simplify
B) 346 ()	$3[-2 - \{4 + 2(6 \times 2 \div 4 + \overline{7 - 3})\}]$
C) 101 ()	A) -60 ()
D) 672	B) $+ 60$ ()
	C) + 30 ()
18. What is the sum of the first 50 natural numbers?	D) -30 ()
A) cannot be computed ()	
B) 1575 ()	
C) 725	
D) 1275	

25. Simplify	32. What will be the average o	f
$2 \cdot 4 \cdot 1$	3, 4, 5, 51, 52, 53?	
$\frac{5}{5} + \frac{5}{5} = 0 + \frac{7}{2}$	A) 26	()
$\frac{\frac{2}{5} + \frac{4}{5}of + \frac{1}{2}}{\frac{2}{3} - \frac{2}{3} \div \frac{5}{3}}$	B) 27	()
	C) 28	()
A) 4 ()	D) 29	()
B) 3 ()	D) 2)	()
C) 7 ()	33. A computer set with a ma	orked price of ₹
D) 11 ()	32,000 was sold for $\stackrel{?}{\underset{?}{\sim}}$ 28	
	-	
26. Simplify	Christmas sale. Calculate the	e discoulit fate
$\sqrt{625} \times 2 + \sqrt{169} \div 39 \times 27$	offered.	()
A) 49 ()	A) 6.5%	()
B) 68 ()	B) 10.2%	()
C) 72 ()	C) 12.5%	()
D) 69 ()	D) 15%	()
D) 09 ()		
27 W/h-4 :- 4h h £	34. The single discount equ	uivalent to the
27. What is the value of	discount series of 20%, 10% at	nd 5% is
$\sqrt[3]{157464}$	A) 35%	()
A) 74 ()	B) 31.6%	()
B) 44 ()	C) 0.32%	()
C) 54 ()	D) None of these	()
D) 66 ()	,	· /
· · · · · · · · · · · · · · · · · · ·	35. The marked price of an	article is 50%
28. Which of the following is a perfect	higher than its cost price. If a	
square?	offered on the marked price, v	
A) 6241 ()	profit percentage?	viiat will be the
B) 5326 ()	A) 40%	()
C) 3248 ()	B) 45%	()
D) 3363 ()		()
D) 3303 ()	C) 30%	()
20. What is the least number to be multiplied	D) 35%	()
29. What is the least number to be multiplied	26 16 4	vG 1: 1 :
with 294 to make it a perfect square?	36. If the price of an LF	•
A) 4 ()	increased by 12% today, by	-
B) 6 ()	should it be reduced tomorrow	w to bring it to
C) 18 ()	the previous level?	
D) 21 ()	A) 12%	()
	_	
30. Calculate the average of the cubes of first	B) $10\frac{5}{7}\%$	()
9 natural numbers.	7	· /
A) 125 ()	G) 10 5 0 /	
B) 55 ()	C) $12\frac{5}{7}\%$	()
C) 75 ()		
D) 225 ()	D) $8\frac{5}{7}$ %	()
31. The average age of 25 boys in a class	7 70	()
decreases by 6 months when a new boy	27 771	1
replaces a 20-year-old boy. Determine the age	37. What percentage of one	quintal is 600
of the new boy.	grams?	, .
A) 7.5 years ()	A) 0.006%	()
B) 8.5 years ()	B) 0.06%	()
C) 6.5 years ()	C) 0.6%	()
D) Cannot be computed ()	D) 6%	()
D) Camot be compared ()	1	

38. Sangzuala spends 60% of household expenses, 20% of t			
amount on personal necessities,			
what is left on savings. If his mo		14 Divida ₹ 06 000 among A	P and C such
<u> </u>	•	44. Divide ₹ 96,000 among A	
amount to ₹ 1,600, determi	ne ms totai	that A's share is 3/4 th of B's	
income.	()	ratio of B's share to C's share	18 4:3. What is
A) ₹ 25000	()	the amount of C's share?	()
B) ₹ 28000	()	A) ₹ 24000	()
C) ₹ 32000	()	B) ₹ 32000	()
D) ₹ 34000	()	C) ₹ 40000	()
20 Am impd is sold for ₹ 61	0000 th analys	D) None of these	()
39. An ipad is sold for ₹ 60		45 A 1 D : 4 :	. 11
making a profit of 20% on the	ie cost price.	45. A and B invest in a par	-
Determine the cost price.	()	ratio of 2:3. After one year, th	-
A) ₹ 72000	()	₹ 30,000. How much will A	receive as his
B) ₹ 48000	()	share?	
C) ₹ 50000	()	A) ₹ 15000	()
D) None of these	()	B) ₹ 18000	()
		C) ₹ 10000	()
40. Siama sold a mobile for ₹ 8,8		D) ₹ 12000	()
10% profit. To achieve a 15% p	profit, at what		
price should he have sold it?		46. Khuma starts a business w	ith ₹ 20000 and
A) ₹ 7800	()	Mawia joins after 3 months	with ₹ 80000.
B) ₹ 9200	()	Find the ratio of their profit a	t the end of the
C) ₹ 9800	()	year.	
D) ₹ 10120	()	A) 2:3	()
		B) 1:3	()
41. A man gains 10% by selling	an article for	C) 3:5	()
a certain price. If he sells it a	at double the	D) 2:5	()
price, then the profit made is		,	,
A) 20%	()	47. A and B started a joint	business. A's
B) 40%	()	investment was thrice the investment	
C) 100%	()	the period of his investment	
D) 120%	()	period of investment of B. If B	
2) 12070	()	profit, then what will be the tot	_
42 Partner $4^2 \cdot 2^1$ to the π	:1 f	A) ₹ 58000	()
42. Reduce $4\frac{2}{3}: 3\frac{1}{3}$ to the s	impiest form.	B) ₹ 35000	()
A) 7:4	()	C) ₹ 45000	()
B) 5:3	()	D) ₹ 42000	()
C) 7:5	()	D) (42000	()
D) 8 : 5	()		
43. A dozen apples costs ₹ 756.	What will be		
the cost of 864 apples?			
A) ₹ 54432	()		
B) ₹ 137142	<u>(</u>)		
C) ₹ 10500	()		
D) None of these	()		
,	· /	1	

Directions Q 48-50: Study the following graph and the table and answer questions nos. 48-50

Data of different states regarding population of states in the year 1998



Total population of the given States = 3276000.

	Sex and Literacy wise Population Ratio									
States	Sex		Literacy							
	М	F	Literate	Illiterate						
A.P	5	3	2	7						
M.P	3 1 2 3 3 5		1	4						
Delhi			2	1						
Goa			3	2						
Bihar	3	4	4	1						
U.P.	3 2		7	2						
T.N.	3 4		9	4						

48.	What	will	be	the	percenta	age of	f the	male	popu	lation	in	U.P	to	the	total	popul	lation	of	all	the
give	en stat	es?																		

- A) 12% () B) 9% () C) 7.5% ()
- D) None of these ()

49. How many literate persons are there in Delhi?

A) 87360 ()
B) 158730 ()
C) 174720 ()
D) None of these (

50. What is the ratio of the number of females in T.N. to the number of females in Goa?

A) 24: 35
B) 27: 39
C) 17: 28
D) None of these
()