MIZORAM SUBORDINATE SERVICES SELECTION BOARD



COMPETITIVE EXAMINATION FOR RECRUITMENT TO THE POST OF ASSISTANT ACCOUNTS OFFICER (TREASURY) UNDER FINANCE DEPARTMENT, GOVERNMENT OF MIZORAM SEPTEMBER - 2022

Question Booklet Series

ARITHMETIC



Time Allowed: 3 Hours Maximum Marks: 100

INSTRUCTIONS

- 1. This paper consists of one hundred (100) multiple-choice type of questions.
- 2. Immediately after the commencement of the examination, you should check that this question booklet does not have any unprinted or missing pages or items, etc. If so, get it replaced by a complete booklet from the invigilator.
- 3. Please note that it is the candidate's responsibility to fill in all necessary details such as Roll Number, etc. and the Question Booklet Series A, B, C or D carefully and without any ommission or discrepancy at the appropriate places in the OMR Answer Sheet. Any ommission/discrepancy will render the Answer Sheet liable for rejection.
- 4. Each question comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet.
- 5. You have to mark your responses ONLY on the separate OMR Answer Sheet provided. *Read instructions given in the OMR sheet carefully.*
- 6. All questions carry equal marks.
- 7. Rough work is to be done in the spaces available in the question booklet.
- 8. You have to submit your Answer Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are permitted to take away with you the question booklet on conclusion of examination.
- 9. There are no negative marks for incorrect answer.



1.	The r	next number of the sequence $\frac{1}{3}, \frac{4}{9}, \frac{7}{2}$	$\frac{7}{7}, \frac{10}{81}, \dots$	is
	(A)	$\frac{13}{108}$	(B)	$\frac{13}{243}$
	(C)	$\frac{14}{108}$	(D)	$\frac{15}{243}$
2.	The v (A) (C)	value of $(6 + \sqrt{5}) (6 - \sqrt{5})$ is 11 31	(B) (D)	12 61
3.	$24.\overline{75}$	is equal to		
	(A)	$\frac{817}{33}$	(B)	$\frac{825}{36}$
	(C)	$\frac{915}{42}$	(D)	$\frac{918}{47}$
4.	If the (A) (C)	quotient in a division is 8, the diviso 17 54	r is 7 an (B) (D)	d the remainder 2, then the dividend is 18 58
5.	The le		398 so	as to get a number exactly divisible by
	(A) (C)	12 8	(B) (D)	10 2
6.		Lawmi and Te-i invest Rs. 2,000, R be the share of Lawmi when they div Rs. 600 Rs. 900		
7.	Rs. 7,	a enters into a partnership with Rs. 4,200. After one year, the profits are deep before they got the profit?		nd later on Rema joins him with equally. How long did Rema invested
	(A)	12 months	(B)	6 months
	(C)	5 months	(D)	7 months
8.	for 7	d B start a business. A invests Rs. 1, months. If they receive a profit of I of profit for A?		•
	(A)	Rs. 4,000	(B)	Rs. 4,200
	(C)	Rs. 4,300	(D)	Rs. 4,400
9.		• •	kg of zii	nc in order to make an alloy containing
	(A)	of zinc and 55% of copper? 68 kg	(B)	$70\mathrm{kg}$
	(C)	77 kg	(D)	80 kg

10.	II A:	B = 3: 4 and $B: C = 8: 9, t$	nen A : B : C is		
	(A)	3:4:5	(B)	6:8:9	
	(C)	1:2:3	(D)	7:12:17	
11.	If the are	wages of 12 men for 30 days	are Rs. 4,200, t	hen the wages of 18 men for 24 days	
	(A)	Rs. 5,000	(B)	Rs. 5,020	
	(C)	Rs. 5,040	(D)	Rs. 5,060	
12.		n or 12 women can do a piec be done by 6 men and 6 won		days. In how many days can the gether?	
	(A)	25 days	(B)	28 days	
	(C)	30 days	(D)	32 days	
13.		tudy camp, food is available his food be sufficient for 90	•	50 students. For how many days	
	(A)	15 days	(B)	25 days	
	(C)	30 days	(D)	35 days	
14.		men working 9 hours per day fred to reap the field in 15 day 36 men 24 men	_	ld in 16 days, how many men will be nours per day? 25 men 15 men	
15.	of 7 l	_	_	and at the same time, walk at the rate directions. The time taken by them 3 hours 7 hours	
16.	A sum of Rs. 10,000 was deposited in a bank for 27 months at the rate of 20% p.a. on compound interest. What will be the total interest received?				
	(A)	Rs. 4,380	(B)	Rs. 4,594	
	(C)	Rs. 5,120	(D)	Rs. 5,980	
17.	intere years	est at 8% p.a. compounded and to clear the debt?	nnually. What a	of India. The bank charges compound amount will he have to pay after 2	
	(A)	Rs. 1,39,800	(B)	Rs. 1,45,800	
	(C)	Rs. 1,49,000	(D)	Rs. 1,52,000	
18.		e circumference of a circle is			
	(A)	42 cm	(B)	64 cm	
	(C)	84 cm	(D)	86 cm	
19.		re is looped in the form of a re form. What must be the le		s 14 cm. The same wire is bent into a e of the square?	
	(A)	44 cm	(B)	66 cm	
	(A) (C)	33 cm	(D)	22 cm	
	(\cup)	55 VIII	(\mathbf{D})	VIII	

		- 3 -			
20.	The leng	gth of the longest pole that can be	put in a	room of dimensions 12m×9m×8m	
	(A) 1	4 m	(B)	15 m	
	(C) 1	6 m	(D)	17 m	
21.	the third	hree numbers, the first number is d. If the average of the three number 30		the second and the second is thrice 50, the first number is 90	
	(C) 9	92	(D)	95	
22.		an of 40 observations was found tread as 68 at one place. The corre		5. But later on, it was found that 86 nn is	
	(A) 6	66.5	(B)	65.5	
	(C) 6	55.45	(D)	65.25	
23.	The ave	rage of four consecutive even num	mbers i	s 27. What is the least number?	
	()	30	(B)	28	
	(C) 2	26	(D)	24	
24.		ue that comes in the place of? in	_		
	` /	.7	(B)	16	
	(C) 1	.5	(D)	14	
25.	A student has to score 35% marks to pass in an examination. He gets 650 marks and fails by 50 marks. What are the full marks?				
		000	(B)	1500	
	(C) 2	2000	(D)	2500	
26.	Two trains 400m and 350m long are running on parallel tracks at the rate of 180 km/hr and 120 km/hr respectively. If they are running in opposite directions, the time taken to cross each other is				
	(A) 5	secs.	(B)	9 secs.	
	(C) 1	2 secs.	(D)	15 secs.	
27.	student		_	, each containing 10 questions. If a d 5 questions from part B, in how	
	` /	1,000	(B)	11,340	
	(C) 1	1,350	(D)	11,365	
28.	Mawia has ten friends and he wants to invite 6 of them to a party. How many times will 3 particular friends never attend the party?				
	(A) 7		(B)	8	
	$(C) \qquad 3$	35	(D)	72	
29.		many ways can 7 boys be seated anys together?	at a rou	and table so that two particular boys	
		220	(B)	420	
	()	320	(D)	240	
	()		(-)	-	

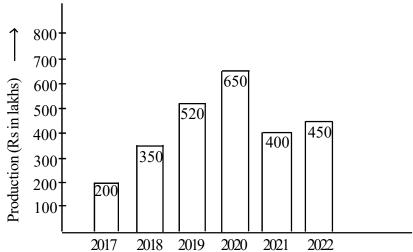
- 30. In how many ways can the word 'LETTER' be arranged?
 - (A) 180

(B) 185

(C) 190

(D) 196

Directions (Question 31-33): The bar graph shows the production of Betel nut by Hachhek Constituency of Mizoram over 6 years. Study the bar graph and answer the questions that follow.



- 31. In how many of the given years was the production of betel nut more than the average production of the given years?
 - (A) 2

(B) 3

(C) 4

- (D) 5
- 32. What was the percentage increase in the production of betel nut from 2019 to 2020?
 - (A) 15%

(B) 18%

(C) 20%

- (D) 25%
- 33. In which year was the percentage increase in production as compared to the previous year, the maximum?
 - (A) 2018

(B) 2019

(C) 2020

- (D) 2022
- 34. Kunga bought an article marked at Rs. 1,500 after a discount of 20% on the marked price. What additional discount rate must be offered to Kunga to bring the net price to Rs. 1,080?
 - (A) 15%

(B) 12%

(C) 11%

- (D) 10%
- 35. The marked price of an article is 10% higher than the cost price. A discount of 10% is given on the marked price. By this type of sale, there is
 - (A) no loss nor gain

(B) 1% gain

(C) 1% loss

- (D) 4% loss
- 36. Thanga purchased a washing machine for Rs. 7,660. He allows to sell it at a discount of 12% on its marked price and still gains 10%. The marked price of the machine is
 - (A) Rs. 9,560

(B) Rs. 9,575

(C) Rs. 9,780

(D) Rs. 9,875

			- :	5 -		
37.	•	ling 60 metres o What is his prof	-	eeper gai	ns the co	ost price of 15 metres of
	(A)	25%		(B)	20%	
	(C)	30%		(D)	50%	
38.	-		0 eggs at Rs. 6 ea gs at Rs. 8 each. 1		-	0 eggs are broken and he
Direc	tions (C	Duestions 39-40): The given tab	le represe	ents data	regarding number of
	•		, -	_		2022. Study the table and
_	•	estons that follo	-		,	j
			Total number of	Numb	per of	
		Company	employees	female en		
		MAHINDRA	2500	122		
		HYUNDAI	3200	180		
		MARUTI	2000	160		
		TATA	5550	24		
		TOYATA	4240	260		
		NISSAN	3560	124		
39.		ımber of male ei		indra is v		cent less than that of the
40.	and th		f employees in th	•	•	Company increased by 10% ined the same. What was the
41.		oultry farm havin hens are there in 27 47		Mawia ca (B) (D)	37 57	4 heads and 282 legs. How
	_			()		
42.	If $\sqrt{18}$	$\times \overline{14 \times x} = 168, t$	hen the value of	x is		
	(A)	111		(B)	112	
	(C)	113		(D)	114	

43. In an auditorium, the number of rows is equal to the number of chairs in each row. If the capacity of the auditorium is 2025, the number of chairs in each row is

(A) 45 (B) 55

(C) 65 (D) 75

44.	The 1	east number by which 1125 must be	e multip	blied so as to obtain a perfect cube is		
	(A)	25	(B)	9		
	(C)	5	(D)	3		
45.	The v	value of $\cos 54^{\circ} + \cos 63^{\circ} + \cos 117^{\circ}$	$7^{\circ} + \cos$	120° + cos 126° is equal to		
	(A)	0	(B)	1		
	(0)	$-\frac{1}{2}$	(D)	1		
	(C)	$-\frac{1}{2}$	(D)	$\overline{2}$		
46.	pipe o	can empty the full tank in 20 hours. w much time will the tank be full?	If all th	d 12 hours respectively, while a third three pipes operate simultaneously.		
	(A)		` /	7 hrs. 30 mins.		
	(C)	7 hrs. 45 mins.	(D)	7 hrs. 50 mins.		
47.	work to fin (A)	-	-	d 12 days respectively. A started the e completion of the work. Time taken 5 days 8 days		
48.	Tea a	nd Para can together do a work in 8	davs. T	ea alone can do it in 12 days. In how		
		Tea and Para can together do a work in 8 days. Tea alone can do it in 12 days. In how many days will Para alone finish the work?				
	(A)	•		15 days		
	(C)	12 days	(D)	10 days		
49.	A can do as much of work in 2 days as B in 3 days, and B as much in 4 days as C in 5 days. In how many days can A, B and C together finish the work if A alone can do it in 22 days?					
		17 days	(B)	15 days		
	(C)	12 days	(D)	10 days		
50.	_	nps, working 8 hours a day can empt 4 pumps work to empty the tank in	•	k in 2 days. How many hours a day		
	(A)	9 hours	(B)	10 hours		
	(C)	11 hours	(D)	12 hours		
51.		w many ways can the word 'OPTICA's together?	AL' be a	arranged so that the vowels always		
	(A)	650	(B)	720		
	(C)	780	(D)	800		
52.	In ho	w many ways can 5 persons occupy	3 seats	?		
	(A)	20	(B)	30		
	(C)	60	(D)	80		
53.	A bui	ilding is 50m high. What is the angle	e of ele	vation of the top of the building from		
		nt on the ground which is $50\sqrt{3}$ m fi		-		
	(A)	30°	(B)	45°		
	(C)	60°	(D)	90°		

			- / -			
54.		lder leaning against a wall make	_	of 60° with the ground. If the foot of f the ladder is		
	(A)	5 m	(B)	6 m		
	(C)	9 m	(D)	12 m		
55.	of ele	-		foot of a tower is 60° and the angle of of the hill is 30°. If the tower is		
	(C)	165 m	(D)	170 m		
56.	-	elling an umbrella for Rs. 360, a in 12%?	a man loses	10%. At what price should he sell it		
	(A)	Rs. 420	(B)	Rs. 448		
	(C)	Rs. 452	(D)	Rs. 455		
57.		difference between the selling profit is 20%, the selling price is		e cost price of an article is Rs. 240. If		
	(A)	Rs. 1,430	(B)	Rs. 1,435		
	(C)	Rs. 1,440	(D)	Rs. 1,450		
58.	Maw	ia buys a shirt for Rs. 720 and se	lls it at a loss	of $6\frac{2}{3}$ %. For how much did he sell it?		
	(A)	Rs. 660	(B)	Rs. 665		
	(C)	Rs. 670	(D)	Rs. 672		
59.		P and Q invested in a business. The profit earned was divided in the ratio 2:3. If P invested Rs. 40,000, the amount invested by Q was				
	(A)	Rs. 45,000	(B)	Rs. 50,000		
	(C)	Rs. 60,000	(D)	Rs. 70,000		
60.			•	s him 4 months later with an investment s. 58,100. John's share in the profit is Rs. 33,200 Rs. 23,300		
61.		and Thanga walked to each other ectively. If they were initially 22 7:30 a.m. 8:30 a.m.		the speed of 4 km/hr and 5 km/hr, at what time do they meet? 8:00 a.m. 9:00 a.m.		
62.	•	A boy goes to school with a speed of 3 km/hr and returns with a speed of 2 km/hr. If he takes 5 hours in all, the distance between his house and the school is				
	(A)	5 km	(B)	6 km		
	(C)	7 km	(D)	8 km		
63.	A ma	nn walking at the rate of 5 km/hi	()	ridge in 15 minutes. The length of		
		ridge is	(D)	1 220		
	(A)	1,180 m	(B)	1,230 m		
	(C)	1,250 m	(D)	1,300 m		

64.	Walking at $\frac{1}{7}$ of his usual speed, a man is 14 mins. late. The usual time taken by				
	him t	o cover that distance is			
	(A)		(B)	1 hr. 30 mins.	
	(C)		(D)	1 hr. 45 mins.	
65	Thom	on many 20 km in 2.5 hours. How low	. ~ +++;11 1	a a talka ta mun 20 lema at day bla tha	
65.		ga runs 20 km in 2.5 hours. How lor ous speed?	ig wiii i	le take to full 80 km at double the	
	(A)	. • • • • • • • • • • • • • • • • • • •	(B)	7 hours	
	` ′	6 hr. 30 mins.	(D)	5 hours	
	, ,		, ,		
66.	$\frac{2x}{x^2-9}$	$\frac{1}{9} - \frac{1}{x+3} - \frac{2}{x-3}$ in its simplest term	is		
	(4)	1	(D)	-1	
	(A)	$\frac{1}{x-3}$	(B)	$\frac{-1}{x+3}$	
	(C)	$\frac{1}{x+3}$	(D)	$\frac{-1}{x-3}$	
	(C)	$\overline{x+3}$	(D)	$\overline{x-3}$	
67.	The f	Factored form of $6x^2 - 13x + 6$ is			
0 / 1		(2x-3)(3x-2)	(B)	(2x+3)(3x-2)	
		(2x-3)(3x+2)		(2x+3)(3x+2)	
	()	(·· · · ·)	()	()()	
68.	If $x =$	$= 3 + \sqrt{8}$, the value of $x^2 + \frac{1}{x^2}$ is			
	(A)	98	(B)	64	
	(C)	36	(D)	34	
69.		double the money of B and B has 50 C is Rs.14,300, how much money doo		e than C. If the average money of A, B	
		Rs. 7,800			
	(C)	Rs. 23,400	(D)	Rs. 24,300	
70.	The r	nean weight of 34 students of a scho	nol is 43	kg. If the weight of a teacher be	
70.		ded, the mean weight rises by 400g.		-	
	(A)	56 kg	(B)	57 kg	
	(C)	58 kg	(D)	59 kg	
71.	A kit	e is attached to a string and the other	r end of	the string is fixed on the plane	
, = :		_		ove the ground and the string makes	
	an an	gle of 30° with the ground, then the	length (of the string is	
	(A)	60 m	(B)	90 m	
	(C)	100 m	(D)	120 m	
72	Tha -	shadovy of a toyyon is 21 mg yylong 41-2	um'a a14	tituda is 200 What is the largeth of	
72.		shadow of a tower is 21m when the s nadow when the sun's altitude is 60°		utude is 50°, what is the length of	

(B)

(D)

5 m

3 m

(A)

(C)

7 m

4 m

73.	3. The simple interest on a sum of money for 2 years at 5% p.a. is Rs. 800. The composinterest on that sum at the same rate and for the same period is		
	(A) Rs. 780	(B)	Rs. 800
	(C) Rs. 810	(D)	Rs. 820
74.	A sum of money invested at Rs. 3,528 in 5 years. The rat		amounts to Rs. 3,200 in 3 years and
	(A) 5% p.a.	(B)	•
	(C) 6.5% p.a.	(D)	7% p.a.
75.			o.a. simple interest. After 2 years he the payment of the loan. The interest
	(A) Rs. 1,350	(B)	Rs. 1,385
	(C) Rs. 1,420	(D)	Rs. 1,450
76.	If Rs. 4,840 are divided into	three parts in the ra	atio 2:3:6, the second part is
	(A) Rs. 2,640	(B)	Rs. 440
	(C) Rs. 880	(D)	Rs. 1,320
77.		~	in such a way that the shares of A re in the ratio 4:5. The share of C is Rs. 2,400 Rs. 1,600
78.	If $\frac{1}{3}$ of A's share $=\frac{1}{2}$ of B's s	share = $\frac{3}{4}$ of C's sha	are and C gets Rs. 3,400, then the total
78.	If $\frac{1}{3}$ of A's share = $\frac{1}{2}$ of B's s sum of money distributed is	share = $\frac{3}{4}$ of C's sha	are and C gets Rs. 3,400, then the total
78.		share = $\frac{3}{4}$ of C's share (B)	are and C gets Rs. 3,400, then the total Rs. 16,050
78.	sum of money distributed is		
78. 79.	sum of money distributed is (A) Rs. 11,050 (C) Rs. 16,150 A can do a work in 15 days a	(B) (D) nd B in 20 days. The	Rs. 16,050
	sum of money distributed is (A) Rs. 11,050 (C) Rs. 16,150 A can do a work in 15 days a then A left the work, and B fi	(B) (D) nd B in 20 days. The	Rs. 16,050 Rs. 17,150 ey worked together for 6 days and
	sum of money distributed is (A) Rs. 11,050 (C) Rs. 16,150 A can do a work in 15 days a then A left the work, and B fr work?	(B) (D) nd B in 20 days. The nished the remainin	Rs. 16,050 Rs. 17,150 ey worked together for 6 days and g work. How many days did B do the
	sum of money distributed is (A) Rs. 11,050 (C) Rs. 16,150 A can do a work in 15 days a then A left the work, and B fr work? (A) 20 days (C) 14 days	(B) (D) nd B in 20 days. The nished the remainin (B) (D) ork in 6 days which	Rs. 16,050 Rs. 17,150 ey worked together for 6 days and g work. How many days did B do the 12 days 25 days B can complete it in 12 days. If they
79.	sum of money distributed is (A) Rs. 11,050 (C) Rs. 16,150 A can do a work in 15 days a then A left the work, and B from work? (A) 20 days (C) 14 days A can complete a piece of work together and complete (A) $\frac{1}{4}$	(B) (D) nd B in 20 days. The nished the remainin (B) (D) ork in 6 days which	Rs. 16,050 Rs. 17,150 ey worked together for 6 days and g work. How many days did B do the 12 days 25 days B can complete it in 12 days. If they
79.	sum of money distributed is (A) Rs. 11,050 (C) Rs. 16,150 A can do a work in 15 days a then A left the work, and B fr work? (A) 20 days (C) 14 days A can complete a piece of w work together and complete	(B) (D) nd B in 20 days. The nished the remainin (B) (D) ork in 6 days which it, the portion of the	Rs. 16,050 Rs. 17,150 ey worked together for 6 days and g work. How many days did B do the 12 days 25 days B can complete it in 12 days. If they e work done by A is
79.	sum of money distributed is (A) Rs. 11,050 (C) Rs. 16,150 A can do a work in 15 days a then A left the work, and B from work? (A) 20 days (C) 14 days A can complete a piece of work together and complete (A) $\frac{1}{4}$	(B) (D) nd B in 20 days. The nished the remainin (B) (D) ork in 6 days which it, the portion of the (B)	Rs. 16,050 Rs. 17,150 ey worked together for 6 days and g work. How many days did B do the 12 days 25 days B can complete it in 12 days. If they e work done by A is $\frac{4}{7}$
79. 80.	sum of money distributed is (A) Rs. 11,050 (C) Rs. 16,150 A can do a work in 15 days a then A left the work, and B fi work? (A) 20 days (C) 14 days A can complete a piece of w work together and complete (A) $\frac{1}{4}$ (C) $\frac{2}{5}$	(B) (D) nd B in 20 days. The nished the remainin (B) (D) ork in 6 days which it, the portion of the (B)	Rs. 16,050 Rs. 17,150 ey worked together for 6 days and g work. How many days did B do the 12 days 25 days B can complete it in 12 days. If they e work done by A is $\frac{4}{7}$

		- 10	_	
82.		election two candidates Mawia and lefeated by Fela by 750 votes. What	Fela co	entested. Mawia got 35% of votes but e total number of votes polled in the
	(A) (C)	2000 2800	(B) (D)	2500 3000
92	` '		. ,	
83.		pends Rs. 25,000 on these two item Rs. 70,000		d items and donates 10% to a Trust. total monthly salary is Rs. 65,000
	(C)	Rs. 62,500	(D)	Rs. 60,000
84.	The marked price of a ceiling fan is Rs. 1,250 and the shopkeeper allows a discour 10% on it. The selling price of the fan is			d the shopkeeper allows a discount of
	(A)	Rs. 1,225	(B)	Rs. 1,200
	(C)	Rs. 1,175	(D)	Rs. 1,125
85.		narked price of a hair-dryer is Rs. 5, is the rate of discount?	500. It	is sold for Rs. 4,950 after a discount.
	(A)	8%	(B)	10%
	(C)	12.5%	(D)	15%
5 diff	erent s	ubjects, namely Maths, Social Scie	ence, So	picts the marks scored by a student in cience, English and Hindi. The total and answer the questions that follow.
86.	What	is the central angle for Hindi?		
	(A)	60°		
	(B) (C)	70° 75°		Math S.S
	(D)	80°		90° 65°
87.	In wh	ich subject does the student score 1	20 mar	ks? Eng. 55° Sc.
	(A)	Science		Llindi
	(B) (C)	Social Science English		Hindi
	(D)	Hindi		
88.	How	much marks does the student score	n Math	ns?
	(A)	97.5	(B)	105
	(C)	120	(D)	135
89.		<u> </u>		rea of the face of the clock described
	-	e minute hand during the period of 3		
	(A) (C)	240 cm ² 264 cm ²	(B) (D)	258 cm ² 270 cm ²

90. The diameter of a wheel of a bus is 140cm. The distance covered by the wheel in 8 revolutions is

(A) 35.2 m

(B) 38 m

(C) 39.5 m

(D) 40 m

91.	The area of a rectangular field is 2304 m ² . The ratio of length to breadth is 16:9
	What is its perimeter?

(A) 100 m

(B) 120 m

(C) 200 m

(D) 240 m

92. What is the cost of fencing a semicircular field of radius 42 metres at the rate of Rs. 2 per metre?

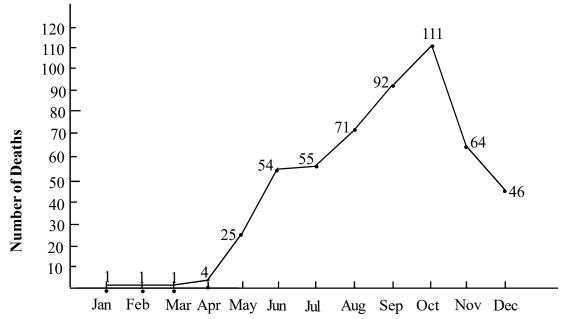
(A) Rs. 240

(B) Rs. 254

(C) Rs. 420

(D) Rs. 432

Directions (Questions 93-95): The following graph shows death due to Covid-19 in Mizoram in the year 2021. Study the graph and answer the questions that follow.



- 93. In which quarter of the year was the number of deaths the highest?
 - (A) Jan-Mar

(B) Apr-Jun

(C) Jul-Sep

(D) Oct – Dec

94. What was the average number of deaths in a month during the year 2021?

(A) 43.75

(B) 43.15

(C) 42.75

(D) 40.75

95. In which month was the rise in deaths maximum over the previous month?

(A) May

(B) June

(C) September

(D) October

96. The diagonal and one side of a rectangle are 10cm and 6cm respectively. What is the length of the other side of the rectangle?

(A) 9 cm

(B) 8 cm

(C) 7 cm

(D) 6 cm

97. If $5^{3x-5} = 625$, the value of *x* is

(A) 3

(B) 4

(C) 5

(D) 6

98. $\frac{x^2 + x - 6}{x^2 - 4x + 4}$ in its simplest form is

 $(A) \qquad \frac{x-2}{x+3}$

(B) $\frac{x+3}{x-2}$

(C) $\frac{x-1}{x+2}$

(D) $\frac{x-3}{x+2}$

The value of $[(3\times3\times3\times3\times3)^6 \div (3\times3\times3\times3)^7\times3^4]$ is 99.

(A)

312 (C)

(B) (D) 314

The value of $1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{5}}}$ is 100.

(A) $\frac{17}{11}$

(B)

(C) $\frac{17}{6}$

(D)