QUANTITATIVE-1

(5) None of these

(5) None of these

(5) None of these

(5) None of these

Directions (1 – 5): What will come in place of the question mark (?) in the following questions? 1. $(5 \times 7)\%$ of $(34 \times 55) + 456.60 = 699.1 + ?$ (1) 412 (2) 422 (3) 418 (4) 428 (5) None of these

- 2. $14 \times 627 \div \sqrt{1089} = (?)^3 + 141$ (1) $5\sqrt{5}$ (2)(125)³ (3)25 (4)5
- **3.** $2\frac{1.5}{5} + 2\frac{1}{6} 1\frac{3.5}{15} = \frac{(?)^{\frac{1}{3}}}{4} + 1\frac{7}{30}$ (1) 2 (2) 8 (3) 512 (4) 324
- 4. $(80 \times 0.40)^3 \div (40 \times 1.6)^3 \times (128)^3 = 2^{?+7}$ (1) 25 (2) 11 (3) 12 (4) 18
- 5. $(\sqrt{7} + 11)^2 = (?)^{\frac{1}{3}} + 2\sqrt{847} + 122$ (1) 6 (2) 36 + 44 $\sqrt{7}$ (3) 216 (4) 36

Directions (6 – 10): What approximate value will come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

6.	$(1494.89 \div 5.005 + 0.996) \div 11.990 =?$							
	(1) 20	(2) 25	(3) 28	(4) 30	(5) 55			
7.	5894 ÷ 14.99 +	- 589.01 – 111.99	9 = ?	O D D				
	(1) 870	(2) 920	(3) 840	(4) 810	(5) 770			
8.	$(9.979)^3 - (2)^3$	$(3.99)^2 + (1.99)^2$) ⁵ = ?					
	(1) 350	(2) 490	(3) 390	(4) 420	(5) 450			
9.	$\left(\frac{18}{4}\right)^2 \times \frac{455}{10} \div$	$\frac{61}{700} = ?$	0					
	(1) 6320	(2) 6350	(3) 6400	(4) 6430	(5) 6490			
10.	2439.97 - 1234	4.01 + 401.99 = 3	? + 989.99					
	(1) 620	(2) 650	(3) 680	(4) 700	(5) 600			
Dinast	ions(11 15).W	That will some in	place of the que	etion morting fo	llowing number of			

Directions(11 – 15) : What will come in place of the question marking following number series?

11.	28 39 63 102 158 (?)			
	(1) 232 (2) 242	(3) 233	(4) 244	(5) None of these
12.	7 16 141 190 919 (?) (1) 1029 (2) 1040) (3) 1020	(4) 1030	(5) None of these
13.	12 17 32 57 92 (?) (1) 198 (2) 195	(3) 137	(4) 205	(5) None of these

SAI BANKING ACADEMY

QUANTITATIVE-1

14.	19 25 45 (1) 254	87 159 (?) (2) 279	(3) 284	(4) 269	(5) None of these	
15.	83 124 206 (1) 1344	5 370 698 (* (2) 1324	?) (3) 1364	(4) 1334	(5) None of these	
Directia You ha Give a Give a Give a	ons (16 – 20) : ve to solve both answer (1) if x : answer (3) if x : answer (5) if x :	In the following h the equations a > y < y = y or the relation	questions two and Give Give onship cannot b	equations numb e answer (2) if x e answer (4) if x e established.	ered I and II are given. ≥ y ≤ y	
16.	I. $\frac{25}{x^2} - \frac{12}{x} +$	$\frac{9}{x^2} = \frac{4}{x^2}$	II.	9.84 - 2.64 = 0.9	$95 + y^2$	
17.	I. $\sqrt{901} x +$	$\sqrt{1295} = 0$	II.	$(257)^{\frac{1}{4}}y + (21)^{\frac{1}{4}}$	$(7)^{\frac{1}{3}} = 0$	
18.	I. $\frac{(3)^5 + (7)^3}{3} =$	= x ³	II.	$7 y^3 = -(15 \times$	$(2) + 17 y^3$	
19.	I. $(x^{1/4} \div 1)$	$(6)^2 = 144 \div x$	3/2 II.	$y^{\frac{1}{3}} \times y^{\frac{2}{3}} \times 310$	$4=16 \times y^2$	
20.	I. $3x^2 - 19x$	x + 28 = 0	II.	$5y^2 - 18y + 1$	6 = 0	
21.	The respective of son and mo (1) 40 years	e ratio between t other is 27 years. (2) 41	he present ages What will be years	s of son, mother, mother's age afte (3) 48 years	father and grandfather is a er 7 years? (4) 49 years	2:7:8:12. The average age(5) None of these
22.	In an examina scored 75 mar approximate p (1) 90	tion Raman scor ks which is 10 r percentage of ma (2) 70	red 25 marks le nore than Sonia rks did Ravi sc)	ess than Rohit. R a. Ravi's score is core in the exami (3) 80	ohit scored 45 more mark 50 less than maximum m nation if he gets 34 marks (4) 60	arks of the test. What more than Raman? (5) 85
23.	The largest an the triangle is (1) 149	d the smallest an equal to 44 ⁰ .Wl (2) 12	ngles of a triang nat is the value 29	gle are in the rati of 150 per cent of (3) 153	o of 3:1 respectively. The of the largest angle of the (4) 173	e second largest angle of triangle? (5) None of these
24.	One of the ang the adjacent an respectively. (1) 255 ⁰	gles of a quadrilangles of the para What is the sum (2)2	ateral is thrice t llelogram is 4: of the largest a 60 ⁰	the smaller angle 5. Remaining th and the smallest (3)265 ⁰	of a parallelogram. The ree angles of the quadrilat angles of the quadrilateral (4)270 ⁰	respective ratio between ceral are in ratio 4:11:9 ? (5) None of these
25.	An aeroplane covered by aer	flies with an ave roplane in 9 hou	rage speed of 7 rs. How much	756 km/hr. A he distance will the	licopter takes 48 hours to helicopter cover in 18 ho	cover twice the distance ours?
	(1) 5014 km	(2) 5]	40 KM	(3) 3130 km	(4) 5103 km	(5) None of these
26.	The circumfer rectangle is eq (1) 734 cm	rence of a semicitive perimeter of a semicities (2) 75	rcle of area 19 eter of a square 54 cm	25 sq. cm is equa e of side 48 cm. (3) 745 cm	l to the breadth of a recta What is the perimeter of (4) Cannot be determine	ngle. If the length of the rectangle? ined (5) 744

SAI BANKING ACADEMY

QUANTITATIVE-1

27.	Meera purchased an item for Rs. 62,000 and sold it at loss of 25 percent. With that amount she purchased another item and sold it at a gain of 30 percent. What was her overall gain/loss?						
	(1) Loss Rs. 1560	(2) Profit Rs. 1560	(3) Loss Rs. 1550 ((4) Profit Rs. 155	0 (5) None		
28.	Sum of two numbers is What is the value of th	s equal to sum of square e e sum of twice of 24 per	of 11 and cube of 9. Lar cent of the smaller numb	ger number is (5) er and half of the) ² less than square of 25. larger number?		
	(1) 415	(2) 420	(3) 410	(4) 425	(5) None of these		
29.	The average of eleven consecutive odd number is 23. What will be 150% of the sum of the greatest and the smallest number of this series?						
	(1) 64	(2) 69	(3) 72	(4) 84	(5) 95		

30.The simple interest accrued on a sum of certain principal is Rs6500 in eight years at the rate of 13% per year.
What would be the compound interest accrued on that principal at the rate of 8 per cent per year in 2 years?
(1) 1040
(2) 1020
(3) 1060
(4) 1200
(5) None of these

Directions (31 - 35): Study the table carefully to answer the questions that following:

Production of two types of items by four different companies in six different months.

Company		K	-	L		Λ	1	N
Months	Type-1	Type-2	Type-1	Type-2	Type-1	Type-2	Type-1	Type-2
January	234	452	432	654	434	324	435	564
February	545	543	534	335	532	450	652	544
March	756	670	864 🔍	654	765	565	564	765
April	634	765	643	454	665	933	875	809
May	568	656	789	654	424	666	565	544
June	875	426	908	767	568	958	574	546

31.	In which month was the difference between number of items of type -1 produced by company $-M$ and number of items of type -2 produced by company N second lowest?						
	(1) January	(2) February	(3) March	(4) April	(5) May		
	· · ·				() j		

32. What was the average number of items of type-2 produced by all the companies together in the month of January? (1) 498.5 (2) 489.5 (3) 469.5 (4) 496.5 (5) None

33. What was the respective ratio between the number of items of type-2 produced by Company- M in the month of May and the number of items of type-1 produced by Company-L in the month of March? (1) $\frac{49}{100}$ (2) $\frac{50}{100}$ (4) $\frac{43}{100}$ (5) None of these

(1) $\frac{49}{109}$ (2) $\frac{31}{48}$ (3) $\frac{50}{109}$ (4) $\frac{43}{58}$ (5) None of these

34.Number of items of type-1 produced by company-N in the month April was approximately what percentage of
number of items of type-2 produced by Company-M in the month of March?(1) 145(2) 150(3) 140(4) 160(5) 154

35. What was the approximate percent decrease in number of items of type-2 that Company-K produced in the month of June as compared to previous month?
(1) 30
(2) 25
(3) 22
(4) 40
(5) 35

Directions (36 – 40) : Study the following graph carefully to answer the questions that follow: Number of Candidate (in thousands) who qualified in an exam in three different states in six different years



Directions (41 - 45): Study the following pie-chart carefully to answer these questions.

Total Monthly expenditure of a boy = Rs. 8500 Percentage of Monthly Expenditure



41. The boy deposits 75 percent of his savings in a bank. What amount is left with him after depositing money from his savings?

(1) 220	(2) 160	(3) 210
(4) 170	(5) None of	these

42.	If 20 per cent of other expense of the boy is on mobile phone, 70 percent on smoking and remaining on gam then what is the amount he spends on smoking and gambling together?						maining on gambling,
	(1) 942	(2) 940	(3) 952	(4) 960	(5) No	ne of these	
43.	What is the difees?	ifference between	n the boy's total of	expenditure on bo	ooks and	l food together and h	is expenditure on
	(1) 255	(2) 260	(3) 275	(4) 250	(5) No	ne of these	
44.	What is the b	ov's average exp	ense on travellin	g, books, fees and	d food to	gether?	\sim
	(1) 1657.50	(2) 1675.50	(3) 1757.50	(4) 1775.50	(5) No	ne of these	° C/ °
45.	Expense of th	e boy on travelli	ng is approximat	ely what per cent	of his e	xpense on fees?	
	(1) 48	(2) 50	(3) 42	(4) 55	(5) 35		
Direct	tions (46 – 50) : Number of P	Study the follow Passengers (in hu	ving table careful undreds) travelli	ly to answer the oing in five trains	question on six (s that follow : lifferent days	E
	Dav	1				D	Ľ
N	Aonday	4.55	4.38	4.64		7.73	7.68
Т	luesday	3.54	6.34	6.90		5.82	5.59
We	ednesday	7.65	2.79	7.23		5.64	6.28
Т	hursday	6.75	8.65	7.83	5	9.74	8.83
	Friday	5.78	9.50	8.91	-	8.16	6.54
S	aturday	3.48	5.39	9.84	ŀ	9.92	10.9
46.	What is the dition together and together (1) 667	ifference between the number of pa (2) 676	n the total numbe ssengers travellir (3) 687	er of passengers to ng in Train-E on S (4) 686	ravelling Saturday (5) No	g in Train-C on Thur ?? ne of these	sday and Saturday
47.	What is the ap	pproximate per c	ent increase in th	e number of pass	engers t	ravelling in Train-B	on Tuesday as
	compared to t	the previous day?					
	(1) 49	(2) 52	(3) 59	(4) 53	(5) 45		

48. In which train the number of passengers travelling consistently increases from Monday to Saturday? (1) A (2) B (3) C (4) D (5) E

49. If four- eleventh of the number of passengers in Train-C on Friday is travelling without ticket, then what is the number of passengers having tickets?
(1) 567 (2) 546 (3) 576 (4) 564 (5) None of these

50. Total number of passengers travelling in train C and E together on Thursday is approximately what per cent of the number of passengers travelling in train-D on Saturday?
(1) 151 (2) 155 (3) 168 (4) 174 (5) 162