Direction (1-4): Which figure does not belong to the group in each of the questions 1 to 4

1. - Answer: A III. IV. I. II. **A.** B. II C. III D. IV 2. - Answer: B Ι II IV Ш C. B. II Ш D. IV A. I 3. - Answer: C III IV II B. II C. III D. IV 4. - Answer: D II III

C.

III

D.

IV

B.

II

- 5. A bag contains one rupee, fifty paise and twenty five paise coins in the ratio 2:5:7. Their total value is Rs.100. Find the number of fifty paise coins.
- Answer: Due to typographical error in the question, marks are awarded to all candidates

A. 32	B. 28	C. 40	D. 30
11. 52	2. 20		2. 00

6. Milk and water are in the ratio 8:5 in a vessel. In the other vessel they are in 9:5 ratio. In what proportion should the quantities be taken from the two vessels so as to form a mixture in which milk and water will be in 5:3 ratio

- Answer: B

A. 5:8 B. 13:7	C. 14:3	D. 7:13
----------------	---------	---------

7. In the question there are five boxes containing shapes or patterns. There is a letter at the side of each of the first four boxes. These pairs of letters are codes for the shapes or patterns in each box. Work out the two-letter code for the last box.



- Answer: C

A. ZU B. WZ	C. WU	D. ZL
-------------	-------	-------

- 8. In a distance of 264 metres, a wheel makes 200 revolutions. Find the area of the wheel
- Answer: Due to typographical error in the answers, marks are awarded to all candidates

A. 924 sq.m. B. 1386 sq.m.	C. 462 sq.m.	D. 1848 sq.m.
----------------------------	--------------	---------------

9. An ass is tied at the corner of a rectangular field with 16 m long rope. The area of the field on which the ass can graze is:

- Answer: D

400 2	D 00 = 2	a 100 ?	D 201 2
A. 402 m^2	B. 805 m ²	C. 128 m^2	D. 201 m ²
A. 402 III	D. 003 III	C. 120 III	D. 201 III

10. A rectangle has width a and length b. If the width is decreased by 20% and the length is increased by 10% then what is the new area

- Answer: A

Direction (11 - 13): What comes in place of the question mark(s) in each sequence in questions 11 to 13.

11. + - X + + - X + + - X + + - ? ? X - Answer: **D**

A. ++ B. -- C. XX **D. None of these**

12. # + + + - - # + + - - # + - # + - # + - # ? - Answer: C

A. #- D. +#

13. $+++&&&&&&; ---&&&&&&; x x x & & & &; \div \div & & &; ?$

- Answer: B

Direction (14 - 18): There is a certain relationship between two given words on one side of : and another word is given on the other side. Find the missing word which has the same relationship with this word as the given pair of words has.

14. Dog: Rabies: : Mosquito: ? Answer: C

A. Plague B. Death C. Malaria D. Sting

15. NUMBER: UNBMRE:: BUMPER:? Answer: C

A. NUMBER B. UBPMER C. UBPMRE D. UNBMPE

16. 13:17::59:? **Answer: D**

A. 53 B. 67 C. 41 **D. 61**

17. Monday: May:: Thursday:? Answer: C

A. July B. June C. August D. April

18. Penology: Punishment: Seismology:? Answer: D

A. Law B. Medicine C. Cyclone D. Earthquake

letters separated by a colon and have a certain relationship. Identify the relationship and select from the answer choices a pair of words which have similar relationship. 19. Sadist : Injury : : Answer: D B. Priest: Church C. Dentist: Teeth D. Thief: A. Opportunist: Generosity Robbery 20. THESAURUS: SYNONYMS:: Answer: B. A. terminus: B. encyclopedia: C. opposites: D. book: chapters transport facts antonyms 21. POEMS: ANTHOLOGY:: Answer: C Α. men: B. verses: lexicon C. maps: atlas D. poet: anthropology anthropoid 22. DRY: SOAKED:: Answer: C B. air: moisture C. anhydrous: D. arid: parched A. desert : oasis saturated 23. PHILANTHROPIST: BENEVOLENCE:: Answer: D A. philatelist: B. optimist: C. pessimist: D. altruist: benediction quintessence providence generosity **Direction** (24 - 26): Three terrorist messages were intercepted by the police control room. The message was decoded and it was found that Missing letis Zerox, means secret attack Sunday and Tycoon fax letis means Secret plans included and Yphen tiger cage means Sunday victory is ours. 24. What does the code *Zerox* mean here? Answer: Due to typographical error in the direction, marks are awarded to all candidates A. В. Sunday C. attack D. plans secret 25. What does *letis* stand for ? Answer: B A. plan B. secret C. attack D. Sunday 26. Which is the code for Sunday? Answer: Due to typographical error in the direction, marks are awarded to all candidates

Direction (19 - 23): In each of the questions from 19 to 23, two words are given in capital

C.

missing

D.

letis

B. zerox

A.

Tiger

Direction (27 - 30): The number codes 3152, 3455 and 5213 stand for three of the words MISS, SHAM, MASH and HAMS. Work out the code for each of the four words.

27. MISS Answer: B

A. 3152	B. 3455	C. 5543	D. 5213

28. SHAM Answer: A

A. 5213	B. 3455	C. 3152	D. 1255
	_,		_ ,

29. MASH Answer: D

A. 52	213 B.	3455	C.	1345	D.	3152

30. HAMS Answer: D

A.	5213	B.	3455	C.	1345	D.	2135

31. Three ships are berthed next to each other. A blue ship is to the right of a red ship and to the left of a green ship. If the blue ship and the green ship change places then -

Answer: B

A	A. The red ship	B. The green	C. The red ship is D. The red ship is
a	nd the blue ship	ship is between	immediately to the in the middle.
		the red ship and the blue ship.	left of the blue ship.
U	uici.	the blue ship.	sinp.

32. A number of children are standing in a circle. They are evenly spaced and the 5th child is directly opposite the 19th child. How many children are there altogether?



Answer: C

A. 20	B. 24	C. 28	D. 32
-------	-------	-------	-------

33. A 26" x 26" square metal plate needs to be fixed by a carpenter on to a wooden board. The carpenter uses nails all along the edges of the square such that there are 27 nails on each side of the square. Each nail is at the same distance from the neighboring nails. How many nails does the carpenter use?

Answer: C

A. 96 B. 100	C. 104	D. 108	
--------------	--------	--------	--

34. There is a pole in a lake. One-half of the pole is in the ground, another one-third of it is covered by water, and 12 ft is out of the water. What is the total length of the pole in ft?

Answer: B

A. 36	B. 72	C. 96	D. 144

35. A snake slides through a long cylindrical hole in the ground at 5 centimetres per second. The hole is 6 metres in length. The snake takes 16 seconds to enter the hole. What is the length in centimetres of the snake?

Answer: B

A. 64 B. 80	C. 96	D. 112
--------------------	-------	--------

36. "Amma, where had you been?" asked Lata.

"I had been to the attic," replied the mother. "And do you know what I saw there? There was a big web with 17 spiders and flies on it."

"How many spiders were there?" asked the little girl with curiosity. "Well, you know that spiders have eight legs and flies have six. There were a total of 116 legs on the web; you can find out how many spiders were there by yourself," answered the mother with a smile.

Can you help the little girl find out how many spiders were on the web in the attic?

Answer: B

A. 5 B. 7 C. 9 D. 11

37. Each child in a family has at least 4 brothers and 2 sisters. What is the smallest number of children the family might have?

Answer: B

A. 7	B. 8	C. 9	D. 10

Direction (38 - 41): What number comes next in each sequence in questions 38-42?

38. 1, 3, 6, 10, 15, 21, 28, ____ **Answer: C**

A. 34	B. 35	C. 36	D. 37

39. 1, 3, 7, 15, 31, 63, 127, ____ **Answer: B**

A. 221	B. 255	C.	245	D.	259
40. 0, 1, 1, 2, 3, 5	5, 8, 13, 21, 34,				Answer: D
A. 41	B. 45	C.	53	D.	55
41. 1, 2, 6, 24, 12	20,				Answer: D
A. 240	B. 360	\mathbf{C}	480	Т	720

42. The ages of Suresh an his father are in the ratio 2:7. The difference in their age is 40 years. What would the ratio of their ages have been 6 years ago?

Answer: B
A. 1:4
B. 1:5
C. 1:6
D. 1:8

Direction (43 - 44) What letter comes in the blank in each sequence in questions 43 to 44?.

43. E, ____, P, T, W, Y, Z

A. J B. L C. K D. N

44. A B Z Y C D X W E F V U G H ____ **Answer : B**

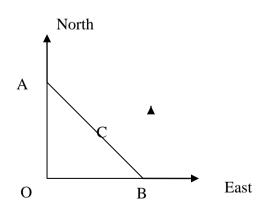
45. A man travels 18 km toward north, then goes 6 km toward east, then 14 km toward south, then 3 km toward west. How far is he from his starting point?

Answer: B

Answer: C

A. 3 km	B. 5 km	C. 7 km	D. 9 km
---------	---------	---------	---------

46. In the given figure, B is 60 km eastward of O and A is 80 km north of O. C is exactly in the middle of A and B. What is the distance between A and C?



A. 40 km	B. 50 km	C. 60 km	D. 70 km

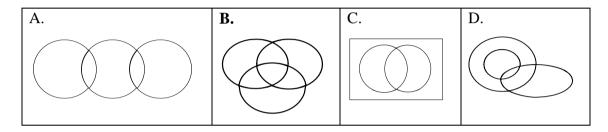
47. A man is facing south. He turns 135^{0} in the anti clock wise direction and then 180^{0} in the clock wise direction. Which direction is he facing now?

Answer: D

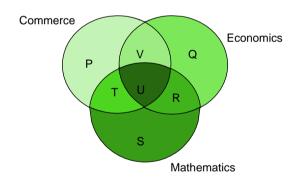
A.	North-east	B.	North-west	C.	South-east	D.	South-west
----	------------	----	------------	----	------------	----	------------

48. Which one of the following diagrams correctly represents the relationship among the following classes in India: Tennis fans, Cricket players, Students?

Answer: B



49. The diagram below represents the students who study commerce, Economics and Mathematics. Study it and identify the region which represents the students who study Commerce and Mathematics but not Economics.



Answer: A

A. T	B. $P+T+S$	C. V	D. T + S

50. In the series,

 $6\ 4\ 1\ 2\ 2\ 8\ 7\ 4\ 2\ 1\ 5\ 3\ 8\ 6\ 2\ 1\ 7\ 1\ 4\ 1\ 3\ 2\ 8\ 6$

How many pairs of alternate numbers have a difference of 2 each?

A. One	B. Two	C. Three	D. Four	

51. The letters L, M, N, O, P, Q, R, S and T in their order are substituted by nine integers 1 to 9 but not in that order. 4 is assigned to P. The difference between P and T is 5. The difference between N and T is 3. What is the integer assigned to N?								
	Answer : C							
A. 4	4	B. 5	C. 6	D. 7				
•	52. In a queue, Amrita is 10 th from the front while Mukul is 25 th from behind and Mamta is just in the middle of the two. If there be 50 persons in the queue, what position does Mamta occupy from the front? Answer: C							
A. 2	20th	B. 19th	C. 18th	D. 17th				
A. 2	22 In group of fiv	B. 26 ve districts Akbarpur i	-	Answer: B D. 32 ur, Dhanbad is bigger than Palamu. Which District is				
	iggest?	iiki is biggei tilali i ate	input but not as oig as	Answer: D				
A. I	Bara Banki	B. Fatehpur	C. Palamu	D. Dhanbad				
55. If 1 st October is Sunday, then 1 st November will be Answer: C								
A. N	Monday	B. Tuesday	C. Wednesday	D. Thursday				
56. slips	56. A monkey climbs 30 feet at the beginning of each hour and rests for a while when he slips back 20 feet before he again starts climbing in the beginning of the next hour. If he							

he begins his ascent at 8.00 a.m., at what time will he first touch a flag at 120 feet from the ground?

Answer: C

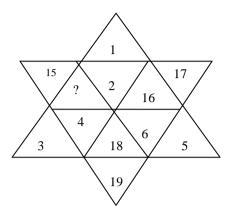
A. 4 p.m.	B. 5 p.m.	C. 6 p.m.	D. 7 p.m.
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57. In a chess tournament, each of six players will play every other player exactly once. How many matches will be played during the tournament?

A. 12	B. 15	C. 30	D. 36

Direction (58 – 60): Select an appropriate answer to replace the question mark from among the choices given.

58.



Answer: B

A. 13	B. 14	C. 20	D. 21

59.

6	18	15
3	2	5
4	3	?
8	27	9

Answer: C

A. 11	B. 6	C. 3	D. 2

60.

4	3		2		9		8
5	5 2			?		35	

Answer: D

A. 5	B. 6	C. 11	D. 8

Direction (61-63): In each of the following questions, there are two statements (A) and (B) followed by four conclusions numbered I, II, III, and IV. Though the statements are at variance from commonly known facts, you have to assume them to be true. Read the conclusions, and based on the information given in statements (A) and (B), decide which of the opinions follow.

61. **Statements:**

(A) All books are trees.

(B) All trees are lions.

Conclusions:

- I. All books are lions.
- II. All lions are books.
- III. All trees are books.
- IV. Some lions are books.

Answer: B

A. Only II and III	B. Only I and IV	C. All conclusions	D. None of the
follow	follow.	follow.	conclusions follow.

62. Statements:

- A. All pens are pencils.
- B. No pencil is a monkey.

Conclusions:

- I. No pen is a monkey.
- II. Some pens are monkeys.
- III. All monkeys are pens.
- IV. Some monkeys are pens.

Answer: C

A. Only I and III	B. Either II or III	C. Only I follows.	D. None of the
follow	follow.		conclusions follow.

63. Statements:

- A. Some donkeys are elephants.
- B. Some elephants are cats.

Conclusions:

- I. Some cats are donkeys.
- II. Some donkeys are cats.
- III. Some elephants are donkeys.
- IV. Some cats are elephants.

Answer: A

A. All the	B. Only II and III	C. Only I, II and	D. None of the
conclusions follow	follow.	IV follow.	conclusions follow.

Direction (64-67): A goldsmith has five gold rings, each having a different weight.

Statement (1): Ring D weighs twice as much as ring E.

Statement (2): Ring E weighs four and one-half times as much as ring F.

Statement (3): Ring F weighs half as much as ring G.

Statement (4): Ring G weighs half as much as ring H.

Statement (5): Ring H weighs less than ring D but more than ring F.

Based on the above statements, answer the questions 64-67.

64. Which of the following represents the descending order of weights of the rings?

Answer: D

A. D, E, G, H	B. E, G, H, D	C. H, F, G, D	D. D , E , H , G
and F	and F	and E	and F

65. Which of the following is the lightest in weight?

Answer : C

A. Ring D	B. Ring E	C. Ring F	D. Ring G
-----------	-----------	-----------	-----------

66. If these rings are sold according to their weights as it is, which ring will fetch highest value in rupees?

Answer: D

4 D: C	D D' E	C D' E	D D: D
A. Ring G	B. Ring E	C. Ring F	D. Ring D
71. King C	D. King L	c. rung i	D. King D

67. Ring H is heavier than which of the following two rings?

Answer: B

A. GE	B. FG	C. DF	D. DE
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68. In a row of boys Ganesh is twelfth from left and Rajan is fifteenth from right. When they interchange their positions, Rajan becomes twentieth from right. How many boys are there in the row?

Answer: D

A 30	B 29	C 32	D 31
A. 30	D. 27	C. 32	D. 31

Direction (69 – 72) In each of the following questions, a conclusion is made out of two assumptions I and II. Assumptions may be absurd, but the conclusion is very much related to the assumptions. You have to consider the assumptions first and decide about the conclusions offered and choose your answer from the choices given.

	II. This cylin	der contains gas.	
Conclusion	: This cylinder	contains LPG.	
			Answer: I
A. True	B. False	C. Irrelevant	D. Uncertain
0. Assumption	s: I. No perso	on above 30 years can par	rticipate in the summit.
	II. Gopal p	articipated in the summ	it.
Conclusion	: Gopal is less	than 30 years old.	
			Answer : A
A. True	B. False	C. Irrelevant	D. Uncertain
		I	
71. Assumption	s: I. All girls	take interest in modeling	·.
•	_	no interest in modeling.	,
Conclusion	: 'Y' is not a	_	
Conclusion	. 1 15 1101 4	8	Answer : A
A. True	B. False	C. Irrelevant	D. Uncertain
	D. Tuise	C. Hierevant	D. Checitain
72. Assumption	ns · I Rove me	ostly enjoy kite-flying.	
72. Assumption	•	ostly like to play with do	11 _c
Conclusion			115.
Conclusion	. Onis are inc	ore intelligent than boys.	Answer : C
	TD E 1		
\ T	B. False	C. Irrelevant	D. Uncertain
A. True			•
	· than Sunita Sur	nita is two years older tha	an Rindu Rajan is a vea
73. Lata is older		nita is two years older tha	an Bindu. Rajan is a yea
A. True 73. Lata is older than Bindu. Who is		<u> </u>	an Bindu. Rajan is a yea Answer: C

C. South-East

B. South-West

A. South

D. East

				Answer : B
A. Brothe	er	B. Son	C. Uncle	D. Nephew
Direction	n (76 – 80):	Read the following in	nformation carefully an	d answer the questions
	Delhi, Ba		and T traveled to five ad by different modes	
(ii	The p	erson who traveled to	Delhi did not go by bo	oat.
(ii	i) R we	nt to Bangalore by car	and Q went to Calcutt	a by aeroplane.
(i	y) S trav	veled by boat whereas	T traveled by train.	
(v) Bomb	pay is not connected by	y bus to Delhi and Mad	lras.
76. W	hich of the	following combination	ons of persons and mod	-
		1		Answer : A
A. T - A e	roplane	B. R - Car	C. S - Boat	D. P - Bus
77. W	hich of the	following combination	on is true for S?	Answer : B
A. Banga	lore - Bus	B. Madras - Boat	C. Hyderabad - Bus	D. Delhi - Bus
78. W		following combination B. Bangalore - Car	ons of place and mode of C. Delhi - Bus	of transport is not correct Answer: C D. Hyderabad - Bus
79. Ti	ne person ti	raveling to Delhi went	by which of the follow	ving modes ? Answer: B
A. Bus		B. Train	C. Aeroplane	D. Car
80. W	ho among	the following traveled	to Delhi ?	
				Answer : D

81.	Three of the	following	four are	e alike	in	a certain	way	and	so	form	a group.	Which	ı is
the one	that does not	t belong to	that gro	oup?									

Answer: B

A. PRT	B. QOM	C. CEG	D. UWY

82. If X is coded as 7; P is coded as 9; Z is coded as 6; M is coded as 5; L is coded as 3 and D is coded as 2, then what will be the coded form of PLDXMZ?

Answer: A

A. 932756	B. 923756	C. 952736	D. 937526

83. Two towns A & B are 60 km apart. A school has to be built to serve 150 students of A and 50 students of B. If the total distance to be traveled by all the 200 students is to be as small as possible, then where is the school to be built?

Answer: C

A.	In town B	B. 45 km from	C. In town A	D. 45 km from
		town B		town A

- 84. Arrange the following words in the sequence in which they occur in the dictionary.
 - 1. Select 2. Seldom 3. Send 4. Selfish 5. Seller

Answer: B

A. 2, 1, 5, 4, 3 B. 2, 1, 4, 5, 3	C. 2, 5, 4, 1, 3	D. 1, 2, 4, 5, 3
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- 85. Arrange the following items from general to particular.
 - 1. Sentence 2. Word 3. Chapter 4. Phrase 5. Paragraph

Answer: C

Direction (86-87): In a certain code language

- (a) 'tom na rod' means 'give me sweet'.
- (b) 'jo ta rod' means 'you and me'.
- (c) 'pot ta noc' means 'you are good'.
- (d) 'jo mit noc' means 'good and bad'.
- 86. Which of the following represents 'bad' in that language?

Answer: A

87. To arrive at the answer to the above question, which of the following can be dispensed with?

Answer: D

A. (a) or (b) only	B.	(a) or (c) only	C. (a) and (c)	D.	None of these
			only		

88. Four of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group?

Answer: B

A. 25 B. 29	C. 63	D. 49
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89. Day after tomorrow is Pooja. The same day next week falls Diwali. Today is Monday. What will be the day after Diwali?

Answer: B

A. Sunday B. Thursday	C. Wednesday	D. Friday	
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90. Introducing a man, a woman said, "His wife is the only daughter of my father." How was the man related to the woman?

Answer: D

A. Brother	B. Father-in-law	C. Uncle	D. Husband

Direction (91-93): Four couples are invited to a dinner party. They will be seated at a circular table. Following are the seating conditions.

- (i) Geeta refuses to sit next to Ali.
- (ii) Lata wants to be between Tilak and Hari.
- (iii) Champa refuses to sit next to Farooq.
- (iv) Niti is seated on Ali's right hand side.
- (v) Farooq and Tilak are seated exactly opposite each other.
- (vi) The seating arrangement is such that one woman is always between two men.
- 91. Which of the following is the only possible arrangement to suit the above conditions?

Answer: C

A. Niti is seated to the left of Tilak	B. Lata is seated between Geeta	
	and Farooq	
C. Champa is seated exactly opposite Geeta	D. Farooq is seated next to	
	Champa	

92. Which of the following conditions is not as per the instructed seating arrangements?

Answer: A

A. Geeta, Farooq, Lata	B. Ali, Champa, Tilak
C. Hari, Lata, Tilak	D. Hari, Geeta, Farooq

- 93. Which of the following statements are correct?
 - I. Ali is on Champa's right.
 - II. Lata is on Tilak's left.
 - III. Farooq is between Niti and Geeta.

Answer: C

A. I only	B. I and II only	C. I, II and III	D. III only

Direction (94 - 97): If the first four letters of a foreign term

'H I P P N O W A D I A S M' are written in reverse order, next five letters are written without changing their order and then the remaining letters are again written in reverse order, then

94. Which letter will be exactly in the middle? **Answer: D**

A. H	B. P	C. J	D. W

95. Which letter will be sandwiched between 2 vowels? Answer: C

A. P	В Н	C. W	D. N
4 1. 1	D. 11	C. 11	D. 11

96. Which letter will be preceding two adjoining vowels? **Answer: B**

A. N	B. S	C. W	D. D

97. How many vowels are to the left of W? Answer: A

A. 2	B. 3	C. 1	D. 4

Direction (98 - 100): Select the odd one out

98. **Answer : D**

A. Rice B. Wheat C. Maize D. Peas	
-----------------------------------	--

			D 34"
A. Metre	B. Quintal	C. Inch	D. Mile
00.			Answer: A
A. Grey	B. Red	C. Yellow	D. Violet
101. Evaluate :	986 x 137 + 986	x 863 = ?	Answer: A
A. 986000	B. 98600	C. 985000	D. 863000
102. Evaluate : 8	8756 x 99999 = ?		Answer: (
A. 875381244	B. 875491244	C. 875591244	D. 815491244
5P9	- 7Q2 + 9R6 = 823	3	Answer:
5P9 A. 5	- 7Q2 + 9R6 = 823 B. 6	C. 7	Answer: O
A. 5	B. 6		D. 9
A. 5 104. The value o	B. 6 of 112 x 5 ⁴ is:	C. 7	D. 9 Answer: I
A. 5	B. 6		Answer: 0 D. 9 Answer: 1 D. 70000
A. 5 104. The value o A. 65000	B. 6 of 112 x 5 ⁴ is: B. 67000	C. 7	D. 9 Answer: 1 D. 70000
A. 5 104. The value o A. 65000	B. 6 of 112 x 5 ⁴ is: B. 67000	C. 7	D. 9 Answer: 1 D. 70000
A. 5 104. The value of A. 65000 105. If n is a neg A. 0	B. 6 of 112 x 5 ⁴ is: B. 67000 gative number, then w B n	C. 7 C. 69000 hich of the following C. 2n	Answer: D. 70000 is the least? Answer: D. n ² statements is / are true?
A. 5 104. The value of A. 65000 105. If n is a neg A. 0 106. If x and y is I. II.	B. 6 of 112 x 5 ⁴ is: B. 67000 gative number, then w B n are negative, then wh x + y is positive xy is positive	C. 7 C. 69000 hich of the following C. 2n	D. 9 Answer: 1 D. 70000 is the least ? Answer: D. n ²

C.

109

D. None of these

A. 103

B.

107

A. 235641	B. 245642	C. 315624	D. 415624
109. The diffed divisible by:	erence between the s	squares of two conse	ecutive odd integers is Answer: D
A. 3	B. 6	C. 7	D. 8
110. What is the	he smallest prime facto	or of 1001?	Answer: B
A. 5	B. 7	C. 3	D. 11
		nsecutive odd integers	Answer: (
A. 241	B. 237	C. 239	D. 243
	•	-	es as many as Hema. If Dayons that Tina can have? Answer: B
has less than 21 c A. 120	B. 105	aximum number of cra	Answer: B D. 147
has less than 21 c	B. 105	aximum number of cra	Answer: B D. 147
has less than 21 c	B. 105	aximum number of cra	Answer: B D. 147 50. The number is:
A. 120 113. The difference A. 75	B. 105 B. 100 B. 100	C. 140 C. 125 and their difference is	Answer: B D. 147 50. The number is: Answer: C D. 150 13. Find their product. Answer: B
A. 120 113. The difference A. 75	B. 105 rence between a numb	C. 140 C. 125	Answer: B D. 147 50. The number is: Answer: C D. 150 13. Find their product.
A. 120 113. The difference A. 75 114. The sum of A. 104	B. 105 B. 100 B. 100 B. 114 An and difference of two	C. 140 C. 125 C. 225	Answer: B D. 147 50. The number is: Answer: C D. 150 13. Find their product. Answer: B
A. 120 113. The difference A. 75 114. The sum of A. 104 115. If the sum	B. 105 B. 100 B. 100 B. 114 An and difference of two	C. 140 C. 125 C. 225	Answer: B D. 147 D. 147 D. 150 D. 150 13. Find their product. Answer: B D. 325 B respectively, then the

Which one of the following numbers is exactly divisible by 11? **Answer: D**

108.

116. Three number Their Highest Con		3:4:5 and their Lea	ast Common Multiple is 24
			Answer: A
A. 40	B. 80	C. 120	D. 200
	mmence tolling togeth minutes, how many t		s of 2, 4, 6, 8, 10 and 12 se ultaneously? Answer: D
A. 4	B. 8	C. 12	D. 16
	D. 6	C. 12	D. 10
118. Product of A. 1	two co-prime number	s is 117. Their Least C	Common Multiple should b Answer: D D. 117
A. 1	В. 3	C. 39	D. 11/
A. 14.6 litre	B. 9.12 litre	C. 8.12 litre	Answer: B D. 28.8 litre
120. By how mu	uch is $\frac{4}{5}$ of 70 less t	than $\frac{5}{7}$ of 112?	Answer: C
A. 28	B. 32	C. 24	D. 42
121. 40% of 40 escaped were A. 16	enemy aeroplanes w	ere shot down. The nu	Answer: D D. 24
122. A soap wei	1 2		t of 12 similar soaps ? Answer: D
A. 1500 g	B. $1225 \frac{3}{7}$ g	C. $1600 \frac{3}{1}$ g	D. 1509 g

123. Find the d	ifference between th	ne local value of 5 in 45	
			Answer: B
A. 45,000	B. 49,500	C. 41,500	D. 56,491
124. A rope is	25 $\frac{1}{2}$ m long. H	ow many pieces each o	f $1\frac{1}{2}$ long can be cut from
			Answer: C
A. 15	B. 16	C. 17	D. 18
125. A badmin	ton player, won 6 ga	nmes and lost 4. The fra	ction of the games he won Answer: C
A. 3	B	C. $\frac{3}{5}$	D 4
$\frac{1}{2}$	B . $\frac{1}{2}$	5	$D. \frac{4}{5}$
A 4.7	D 60	C 75	Answer: D
A. 45	B. 60	C. 75	D. 90
	ble costs Rs 7 each. An aumber of pineapple		5 each. A man spends Rs 3 Answer: C D. Data inadequate
			•
	_	is five times the number of children in the class	er of boys. Which of the ? Answer: B
A. 54	B. 70	C. 84	D. 96
129. Find x, if	$\frac{xx}{56} = -4$,	Answer: D

C. 100

D. 120

B. -100

A. -120

			Answer:
A. 20	B. 30	C. 40	D. 60
131. How muc	ch interest will Rs 10	,000 earn in 9 months a	t an annual rate of 6 per Answer:
A. 450	B. 475	C. 500	D. 600
	money doubles itself llowed on the investm	•	at simple interest. What
rate of interest al	•	•	Answer: D. 8.33%
A. 9.5%	B. 8.25%	C. 8.5%	Answer: D. 8.33% Esself in 8 years . In how
A. 9.5% 133. A sum of years will it treb	B. 8.25%	C. 8.5%	Answer: D. 8.33%
A. 9.5% 133. A sum of years will it treb. A. 4	B. 8.25% Emoney invested at side? B. 12	C. 8.5% imple interest doubles it C. 16 en it is brand new. At the	Answer: D. 8.33% Esself in 8 years . In how answer:

136. The average of three numbers is 135. The largest number is 180 and the difference of the other two numbers is 25. The smallest number is

C. 9261

Answer: C

D. 9161

A. 80	B. 90	C. 100	D. 110

B. 9200

A. 8261

137. The arithmetic mean (average) of 3, 5, 7 and y is 100. What is the value of y?

Answer: A

A. 385	B. 115	C. 105	D. 95

138. A batsman scored an average of 12 runs in 7 innings in a cricket match. He played one more innings and the average then became 14. The runs he scored in the last innings are

Answer: A

A. 28	B. 14	C. 12	D. 15

139. The average attendance in a school for the first 4 days of the week is 30 and for the first 5 days of the week is 32. The attendance on the fifth day is

Answer: B

A. 32	B. 40	C. 38	D. 36

140. Out of the four numbers, the average of first three is 15 and that of the last three is 16. If the last number is 19, then the first is

Answer: B

A. 15	B. 16	C. 18	D. 22

141. The ratio of number of males to number of females in a club are 7 : 4. If there are 84 males in the club, the total number of members in the club are

Answer: B

A. 126	B. 132	C. 136	D. 148

142. A scooter covers a distance of 200 km in 2 hrs 40 min., while a motorcycle covers the same distance in 2 hours. What is the ratio of their speeds?

Answer: D

A. 4:3	B. 5:4	C. 4:5	D. 3:4
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143. If A : B = 7 : 9 and B : C = 3 : 5, then A : B : C = ?

Answer: C

	A. 7:9:5	B. 21:35:45	C. 7:9:15	D. 7:3:15
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			Answer:
A. Rs 5,250	B. Rs 5,200	C. Rs 5,000	D. Rs 4,800
15. The ratio of	f two numbers is 3 : 8	3 and their difference i	s 115. The largest numl Answer:
A. 169	B. 184	C. 230	D. 240
47. If a packet of	B. 270 containing a dozen glasses to unbroken		Answer: D. 100 ch of the following cann Answer:
47. If a packet one ratio of broken	 containing a dozen gl	lasses is dropped, which	D. 100
147. If a packet of he ratio of broken A. 3:1 148. If a shopked hen he	containing a dozen glasses to unbroken glasses glasses to unbroken glasses glasses to unbroken glasses gla	lasses is dropped, which glasses? C. 4:2	D. 100 ch of the following can Answer:
147. If a packet of the ratio of broken A. 3:1 148. If a shopked then he	B. 6:1 B. Gains 20%	lasses is dropped, which glasses? C. 4:2 ts at Rs 250 per kg and	D. 100 ch of the following can Answer: D. 5:7 d sells at Rs 10 per 50 g Answer:

C. Rs 180

D. Rs 240

A. Rs 210

B. Rs 200

151. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, the value of x is

Answer: C

A. 25	B. 18	C. 16	D. 15

152. 'A' sells an item to 'B' at a profit of 10% and 'B' sells it to 'C' at a profit of 20%. If 'B' sold it for Rs 924, at what rate did 'A' buy it ?

Answer: A

A. Rs 700	B. Rs 724	C. Rs 780	D. Rs 725

153. A starts a business with Rs 3500 and B joins him as a partner after 5 months. The profit is divided in the ratio of 2 : 3 at the end of the year. How much did B contribute as his share of capital?

Answer: B

A. Rs 5000 B. Rs 9000	C. Rs 11000	D. Rs 7000
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154. A, B and C enter into a partnership investing Rs 35,000, Rs 45,000 and Rs 55,000 respectively. When the annual profit is Rs 40,500, their respective share will be

Answer: A

A. Rs 10,500, Rs 13,500, Rs 16,500	B. Rs 11,500, Rs 13,000, Rs 16,000
C. Rs 11,000, Rs 14,000, Rs 15,500	D. Rs 11,500, Rs 12,500, Rs 16,500

155. P started a business by investing Rs 50,000. After six months, Q joined with a capital of Rs 80,000. After three years, they earned a profit of Rs 24,500. What was P's share in the profit?

Answer: D

A. Rs 10,250	B. Rs 12,500	C. Rs 14,000	D. None of these

156. A man completes $\frac{5}{8}$ of a job in 10 days. At this rate, how many more days it will take him to finish the job?

A. 5	B. 6	C. 7	D. 8
------	------	------	------

157. 36 men can complete a piece of work in 18 days. In how many days will 27 men complete the same work?

Answer: D

A. 12	B. 18	C. 22	D. 24

158. Running at the same constant rate, 6 identical machines can produce a total of 270 bottles per minute. At this rate, how many bottles could 10 such machines produce in 4 minutes?

Answer: C

A. 948	B. 1200	C. 1800	D. 2700

159. If 7 spiders make 7 webs in 7 days, then 1 spider will make 1 web in how many days?

Answer: C

A. 1	B. $\frac{7}{2}$	C. 7	D. 14
	2		

160. A takes 10 days to do a job. B takes 15 days to do the same job. In how many days they together will do the same work?

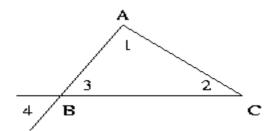
Answer: B

A. 5	B. 6	C. 8	D. 9

(Direction 161 - 175): Compare the two quantities (A and B) and choose the best answer from the four choices given. Diagrams wherever given are only illustrative and are not drawn to scale.

161. Quantity A = Measure of (angle 1 + angle 2 + angle 4)

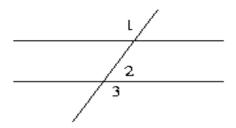
Quantity B = 180°



Answer: A

A. Quantity A	B. Quantity A is	C. Quantity B is	D. Relationship
equals Quantity B	greater	greater	Indeterminate

162. Quantity A = Measure of angle 2 + Measure of angle 3Quantity $B = 180^{\circ}$

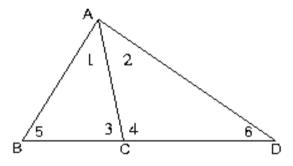


Answer: B

A. Quantity B is	B. Quantity A	C. Quantity A is	D. Relationship
greater	equals Quantity B	greater	Indeterminate

163. Quantity A = Measure of angle 1 + Measure of angle 3

Quantity B = Measure of angle 2 + Measure of angle 4

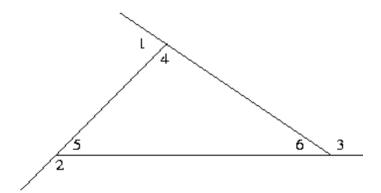


Answer: D

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

Quantity A = Measure of angle 3 - Measure of angle 2

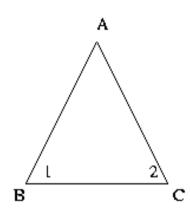
Quantity B = Measure of angle 6 - Measure of angle 6



Answer: C

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

165. Given AB = AC and angle $BAC = 60^{\circ}$ Quantity A = Length of side ABQuantity B = Length of side BC



Answer: C

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

166. Quantity
$$A = 2^9$$

Quantity $B = 9^2$

Answer: A

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

Quantity A =
$$(2+0.2)(2-0.2)(\frac{1}{5})$$

Quantity B = $(0.2)(1.8)(2.2)$

Answer: C

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

168. Quantity A =
$$\sqrt{\frac{11}{49}}$$

Quantity B = $\sqrt{\frac{11}{49}}$

Answer: B

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

Quantity A = Area of a square having perimeter 32

Quantity B = Area of a circle having radius 5

Answer: B

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

170. Quantity A =
$$(16)$$
 (351) (10) (9) (7) Quantity B = (15) (351) (11) (9) (7)

Answer: B

	B. Quantity B is	C. Quantity A	D. Relationship
A. Quantity A is	greater	equals Quantity B	Indeterminate
greater			

171. Quantity A = A single discount of 10%

Quantity B = Two successive discounts of 5% and 5%

Answer: A

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

172. Quantity A = 105% of 200 Quantity B = 50% of 400

Answer: A

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

173. Quantity A =
$$35\%$$

Quantity B = $\frac{0.7}{2}$

Answer: C

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

174. Quantity A = Sita's average rate if she drives 100 km in 2 h 30 min.

Quantity B = Gomathy's average rate if she drives 20 km in 30 min.

Answer: C

Ī	A. Quantity A i	B. Quantity B is	C. Quantity A	D. Relationship
	greater	greater	equals Quantity B	Indeterminate

175. Quantity A = $\frac{(8)(45)(17)}{(462)(8)}$ Quantity B = $\frac{(17)(9)(42)}{(231)(16)}$

Answer: B

A. Quantity A is	B. Quantity B is	C. Quantity A	D. Relationship
greater	greater	equals Quantity B	Indeterminate

176. The area of a triangle whose sides are 15m, 16m and 17m is

Answer: C

A. $24\sqrt{4}$ sq m B. $24\sqrt{3}$ sq m	C. 242/1 sq m	D. 24√ sq m
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177. If the area of a square with side $_{\it l}$ is equal to the area of a triangle with base $_{\it l}$, then the altitude of the triangle is :

Answer: C

_	а	В. а	C. 2 a	D. 4 a
Α.	_			
	2			
	<u> </u>			

178. If the circumference and the area of a circle are numerically equal, then the diameter is equal to:

Answer: D

Λ -	B. 2	C. 2	D. 4
$\frac{A}{2}$			

179. If the circumference of a circle increases from 4 to 8 , what change would occur in its area?

Answer: D

180. The area of a circle is 220 cm². The area of a square inscribed in this circle will be:

Answer: C

A. 49 cm^2	B. 70 cm^2	C. 140 cm ²	D. 150 cm^2

181. The height of a wall is six times its width and the length of the wall is seven times its height. If volume of the wall is 16128 m³, its width is:

Answer: A

182. How many cubes of 3 cm edge can be cut out of a cube of 18 cm edge?

Answer: B

A. 36	B. 216	C. 218	D. 432

183. A boat having a length of 3 m and breadth of 2 m is floating on a lake. The boat sinks by 1 cm when a man gets on it. The mass of man is:

Answer: B

A. 48 kg	B. 60 kg	C. 72 kg	D. 84 kg

- 184. Consider the volumes of the following containers:
 - 1. A cuboid of length 5 cm, breadth 3 cm and height 4 cm.
 - 2. A cube of each side 4 cm
 - 3. A cylinder of radius 3 cm and length 3 cm
 - 4. A sphere of radius 3 cm

The four containers in the decreasing order of their volume would be:

Answer: D

A. 1, 2, 3, 4	B. 1, 3, 2, 4	C. 4, 2, 3, 1	D. 4, 3, 2, 1
11. 1, 2, 3, 1	D . 1, 3, 2, 1	0. 1, 2, 3, 1	D: 4, 3, 2, 1

185. In a 100 m race, A can beat B by 25 m. Over the same distance, B can beat C by 4 m. In a race of the same distance, A can beat C by :

Answer: C

A. 24 m B. 26 C. 28 m D. 29 m	
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186. A and B walk around a circular track. They start at 8 a.m. from the same point in opposite direction. A and B walk at speed of 2 rounds per hour and 3 rounds per hour respectively. How many times will they cross each other before 9.30 a.m.?

Answer: C

A. 5 B. 6 C. 7 D. 8

187. A student covered a distance of 61 km in 9 hours. He traveled partly on foot @ 4 km / hr and partly on bicycle @ 9 km / hr. The distance traveled on foot is :

Answer: C

A. 14 km B. 15 km	C. 16 km	D. 17 km
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188. A train 110 m in length travels at 60 km / hr. How much time does the train take in passing a man walking at 6 km /hr against the direction of movement of the train?

A. 4 sec.	B. 6 sec.	C. 8 sec.	D. 12 sec

189. Mohan covers 10.2 km in 3 hours. The distance covered by him in 5 hours is

Answer: B

190. Excluding stoppages, the speed of a bus is 54 km/hr and including stoppages, it is 45 km/hr. For how many minutes does the bus stop per hour?

Answer: C

A. 9	B. 12	C. 10	D. 15

191. One tap can fill a cistern in 2 hours. Another tap can empty the cistern in 3 hours. How long will it take for the cistern to be filled if both the taps are kept open simultaneously?

Answer: B

A. 5 hours B. 6 hours	C. 7 hours	D. 6.30 hours
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192. A rectangular sheet 44 x 20 cm is folded to form a cylinder. Its capacity is :

Answer: B

A. 3020 cm ²	B. 3080 cm ²	C. 3120 cm ²	D. 3160 cm ²

193. The radii of two circles are in the ratio of 1 : 2. The ratio of the areas of these circles will be :

Answer: A

A. 1:4	B. 1:2	C. 1:8	D. 7:22
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194. An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?

Answer: D

A. 144 ⁰	B. 150 ⁰	C. 168 ⁰	D. 180 ⁰

195. Out of 9 persons, 8 persons spent Rs 30 each for their meals. The ninth one spent Rs 20 more than the average expenditure of all the nine. The total money spent by all of them was:

Answer: C

A. 260	B. 270	C. 292.50	D. 310.50

196. The average of all numbers between 6 and 34 which are divisible by 5 is :

Answer: B

A. 18	B. 20	C. 24	D. 30

197. The value of $\frac{(6666)6}{44444}$ is equal to:

Answer: C

A. 1	B. $\frac{3}{2}$	C. $\frac{4}{10}$	D. $3\frac{6}{4}$
	2	13	13

Direction (198-200): The following table gives the percentage of marks obtained by seven students in six different subjects in an examination. Study the table and answer the questions based on it. The numbers in the brackets give the maximum marks in each subject.

Subjects	Maths	Chemistry	Physics	Geography	History	Computer
(Max	(150)	(130)	(120)	(100)	(60)	science
marks)						(40)
Student						
Ayush	90	50	90	60	70	80
Aman	100	80	80	40	80	70
Sajal	90	60	70	70	90	70
Rohit	80	65	80	80	60	60
Muskan	80	65	85	95	50	90
Tanvi	70	75	65	85	40	60
Tarun	65	35	50	77	80	80

198. What was the aggregate of marks obtained by Sajal in all the six subjects?

Answer: D

A. 409	B. 419	C. 429	D. 449

199. What is the overall percentage of Tarun?

Answer: C

A. 52.5 %	B. 55%	C. 60%	D. 63%

200. The number of students who obtained 60% and above marks in all the subjects is :

A. 1 B. 2 C. 3 D. 4
