

University of Central Punjab
Sample Paper

Total Marks: 120

Time Duration: 2 Hours

English

1. Where did you go _____ holiday last year? (MCQ - CHOOSE ONE)
 - for
 - on
 - to

2. She was so upset that she burst _____ tears. (MCQ - CHOOSE ONE)
 - into
 - out
 - with

3. You should explain this _____ them. (MCQ - CHOOSE ONE)
 - to
 - at
 - with

4. He has been absent _____ Monday. (MCQ - CHOOSE ONE)
 - from
 - for
 - since

5. Tomorrow's a holiday, so we _____ go to work. (MCQ - CHOOSE ONE)
 - have to
 - have not
 - don't have to

6. My friend Siena _____ to Russia last year. (MCQ - CHOOSE ONE)
 - went
 - has gone
 - has been

7. If I _____ well in my exams, I _____ to university. (MCQ - CHOOSE ONE)
 - will do; will go
 - will do; go
 - do; will go

8. My cousin _____ getting a job in Bahrain. (MCQ - CHOOSE ONE)
 - would like
 - is planning
 - is thinking of

9. I wish I _____ have an exam tomorrow! (MCQ - CHOOSE ONE)

- don't
- didn't
- won't

10. Why on earth isn't Josh here yet? _____ for him for over an hour! (MCQ - CHOOSE ONE)

- I'm waiting
- I've been waiting
- I've waited

11. Daniel's hair is getting far too long; he should _____ soon. (MCQ - CHOOSE ONE)

- cut it
- have cut it
- have it cut

12. "I've got a headache." "Maybe you _____ to take an aspirin." (MCQ - CHOOSE ONE)

- should
- ought
- don't

13. I'm surprised you didn't get upset. If someone said that to me, _____ really angry. (MCQ - CHOOSE ONE)

- I'm
- I was
- I'd be

14. Do you want _____ the match tonight? (MCQ - CHOOSE ONE)

- watching
- watch
- to watch

15. When I was a child, I never _____ about the future. (MCQ - CHOOSE ONE)

- have worried
- used to worry
- was worrying

16. I borrowed _____ pencil from your pile of pencils and pens. (MCQ - CHOOSE ONE)

- a
- an
- the

17. My daughter is learning to play _____ violin at her school. (MCQ - CHOOSE ONE)

- a
- an
- the

18. I bought _____ umbrella to go out in the rain. (MCQ - CHOOSE ONE)

- a

- an
- the

19. One of the students said, " ____ professor is late today." (MCQ - CHOOSE ONE)

- a
- an
- the

20. Our neighbours have ____ cat and ____ dog. (MCQ - CHOOSE ONE)

- a
- an
- the

21. This exercise is _____ than that one. (MCQ - CHOOSE ONE)

- boring
- more boring
- most boring

22. The offer was too _____ to be true. (MCQ - CHOOSE ONE)

- good
- better
- best

23. Earning money has always been the thing that pleases him most. The _____ he becomes, the _____ he is. (MCQ - CHOOSE ONE)

- richer - happier
- more rich - happier
- rich - happier

24. The old woman lived alone, with _____ to look after _____. (MCQ - CHOOSE ONE)

- someone / her
- anyone / herself
- no one / her

25. A baby learns the meaning of words as _____ are spoken by others and later uses _____ in sentences. (MCQ - CHOOSE ONE)

- Their / they
- they / them
- they / it

26. Some of these clothes are _____, and the rest of _____ belong to Zack. (MCQ - CHOOSE ONE)

- mine / them
- me / they
- hers / their

27. They decided to buy the house because _____ location would allow _____ to get to work very easily. (MCQ - CHOOSE ONE)

- theirs / them
- its / them
- they / us

28. It isn't too cold today, _____. (MCQ - CHOOSE ONE)

- It is.
- Is it?
- Isn't it.

29. He was at the concert, _____. (MCQ - CHOOSE ONE)

- Wasn't it
- Wasn't he
- Didn't he

30. Henry and Juliet have just arrived, _____. (MCQ - CHOOSE ONE)

- They have
- have they
- haven't they

31. There has been strong competition; _____, the new company has made great profits. (MCQ - CHOOSE ONE)

- instead
- despite
- nonetheless

32. The weather report predicts it will rain _____ become colder. (MCQ - CHOOSE ONE)

- and
- neither
- nor

33. The new agent has experience _____ not expertise. (MCQ - CHOOSE ONE)

- but
- with
- however

34. I did not go to the show _____ I had already seen it. (MCQ - CHOOSE ONE)

- until
- because
- so

35. Read over your answers _____ correct all mistakes before you submit. (MCQ - CHOOSE ONE)

- and
- or
- while

36. Susie _____ phoned _____ wrote after she left home. (MCQ - CHOOSE ONE)

- while, and
- either, or
- neither, nor

37. Hi Noreen, Thanks for your email. I'd love to meet for dinner some time. I know you said you'd like to meet _____ the week. (MCQ - CHOOSE ONE)

- while
- inside
- between
- during

38. Choose the options with the correct order of sentences that forms a coherent paragraph. 1. It was just after midnight on July 17th last year. 2. James was driving home from work. 3. The road was clear and he was driving carefully. 4. Suddenly a young girl stepped out into the road in front of him. 5. He tried to stop but it was too late. Options: (MCQ - CHOOSE ONE)

- 1, 2, 5, 3, 4
- 5, 1, 4, 2, 3
- 1, 2, 3, 4, 5
- 4, 1, 5, 3, 2

39. Choose the best topic sentence for the given paragraph: _____ In Death Valley, some wildflower seeds sprout only when it rains. The Sonoran Desert's velvet mesquite has roots that can extend over fifty yards to water sources. The creosote bush can thrive in dry areas like the Sonoran and Mojave Deserts by cloning itself. _____ (MCQ - CHOOSE ONE)

- Plants in Death Valley and the Sonoran and Mojave Deserts thrive despite the heat
- Deserts are home to a strange and beautiful array of plant life
- Desert plants have adaptations that enable them to survive despite their limited access to water

40. Choose the best concluding sentence for given paragraph: _____ In Death Valley, some wildflower seeds sprout only when it rains. The Sonoran Desert's velvet mesquite has roots that can extend over fifty yards to water sources. The creosote bush can thrive in dry areas like the Sonoran and Mojave Deserts by cloning itself. _____ (MCQ - CHOOSE ONE)

- There is a wide variety of plant life in a desert
- Desert plants die easily
- Desert plants ensure their survival by adjusting to their environment and lack of water *

Mathematics

41. $(A \cap B)'$ (MCQ - CHOOSE ONE)

- $A' \cap B'$
- $A' \cup B'$
- $A \cup B'$
- $A' \cup B'$

42. $1/100$ means: (MCQ - CHOOSE ONE)

- Milli
- Micro
- Deci
- Centi

43. $2(3x - 6) = 3(2x - 4)$ (MCQ - CHOOSE ONE)

- $x = 0$
- No solution
- Identity
- $x = -12$
- None of the above

44. 20% of \$5,000 = (MCQ - CHOOSE ONE)

- \$2,500
- \$1,000
- \$1,500
- \$3,500
- None of these

45. 25% of _____ = 100 (MCQ - CHOOSE ONE)

- 300
- 400
- 600
- 800

46. $2p^2 - 15p + 25 =$ (MCQ - CHOOSE ONE)

- $(p - 5)(2p - 5)$
- $(p - 5)(2p + 5)$
- $(p + 5)(2p - 5)$
- $(2p - 15)(p + 5)$

47. $2x = 25$ (MCQ - CHOOSE ONE)

- $x = 2$
- $x = 12.5$
- $x = 12$
- $x = 22.5$
- $x = 25$

48. $2x = 3$ is a conditional equation and it is true only if x equals to (MCQ - CHOOSE ONE)

- $2/3$
- $-3/2$
- $3/2$
- $-2/3$

49. $3(4 \times 3 + 6) =$ (MCQ - CHOOSE ONE)

- 57
- 54
- 58
- 60
- 108

50. $3(h - 4) = -9$ (MCQ - CHOOSE ONE)

- $h = 0$
- $h = 1$
- $h = -2$
- none of the above

51. $3(m+4)$ is (MCQ - CHOOSE ONE)

- $4+3m$
- $3+4m$
- $3m+12$
- $3m+3$

52. $3/4$ is (MCQ - CHOOSE ONE)

- an odd number
- an even number
- a natural number
- a rational number

53. $3x - 4(x + 6) =$ (MCQ - CHOOSE ONE)

- $-x - 24$
- $7x + 6$
- $-7x - 24$
- $x + 6$

54. $4t-7t$ is equal to (MCQ - CHOOSE ONE)

- $3t$
- $-3t$
- $4t$
- $-4t$

55. $5 + 6(m + 1)$ (MCQ - CHOOSE ONE)

- $6m + 6$
- $11m + 6$
- $6m + 11$
- $6m + 15$

56. A computer software retailer used a markup rate of 40%. Find the selling price of a computer game that cost the retailer \$25. (MCQ - CHOOSE ONE)

- \$30
- \$50

- \$40
- \$35

57. A contractor completed five-ninths of a job before a second contractor completed an additional one-third. What fraction of the job is left undone? (MCQ - CHOOSE ONE)

- one-ninth
- four-ninths
- two-thirds
- eight-ninths

58. A cricketer has a certain average for 9 innings. In the 10th inning, he scores 100 runs, thereby increasing his average by 8 runs. His new average is: (MCQ - CHOOSE ONE)

- 20 runs
- 24 runs
- 28 runs
- 32 runs

59. A second degree equation having coefficients of x^2 and y^2 as 1 and involves no xy term represents _____ (MCQ - CHOOSE ONE)

- A circle
- an ellipse
- parabola
- hyperbola

60. A train 100 meters long passes a bridge at the rate of 72 kilometers per hour in 25 seconds. What is the length of the bridge? (MCQ - CHOOSE ONE)

- 400m
- 170m
- 600m
- None of the above.

61. A train travels at 225 km in 3.5 hours and 370 km in 5 hours. Find the average speed of the train. (MCQ - CHOOSE ONE)

- 80 km/hr
- 60 km/hr
- 70 km/hr
- None of the above

62. A vertical line divides the plane into _____ half planes (MCQ - CHOOSE ONE)

- Upper and lower
- Many
- Left and right
- None of these

63. Five persons can be seated at a round table in _____ ways (MCQ - CHOOSE ONE)

- 25

- 24
- 30
- 20

64. How long will it take for Rs. 6000 to produce Rs. 600 in interest at a rate of 5%? (MCQ - CHOOSE ONE)

- 3 Years
- 10 Years
- 8 Years
- 2 Years

65. If the distance between (3,4) and (x,2) is 8 then $x = \underline{\hspace{2cm}}$ (MCQ - CHOOSE ONE)

- $3 \pm 2\sqrt{15}$
- $2 - 3\sqrt{15}$
- $3 \pm 3\sqrt{15}$
- 0

66. Every relation, which can be expressed by a linear equation into two variables represent a _____ (MCQ - CHOOSE ONE)

- Relation
- Cartesian Product
- Function
- Graph

67. First derivative represents the _____ (MCQ - CHOOSE ONE)

- Tangent to the curve
- rate of change of the tangent
- slope of the tangent to the curve
- none of these

68. For looking at B above the horizontal ray, we have to raise our eyes, and (MCQ - CHOOSE ONE)

- Obtuse angle
- Angle of depression
- Angle of elevation
- Acute angle

69. How many different arrangements are there of digits 01234 (MCQ - CHOOSE ONE)

- 4!
- 5!
- 3!
- 2!

70. If $x/5 = y/8$ then $(x+5) : (y+8)$ is equal to (MCQ - CHOOSE ONE)

- 3 : 5

- 13 : 8
- 13 : 5
- 5 : 8
- 8 : 5

71. Jim earns a monthly salary of \$2,800. What percent of Jim`s monthly income is spent for rent if her rent is \$700 each month? (MCQ - CHOOSE ONE)

- 35%
- 25%
- 55%
- 65%

72. Last year there were 80 students enrolled in the eighth-grade class. This year the number of students enrolled in the eighth-grade class increased by 10%. How many students are enrolled in the eighth-grade class this year? (MCQ - CHOOSE ONE)

- 88
- 78
- 58
- 84

73. The events A & B are said to be disjoint if $A \cap B$ is (MCQ - CHOOSE ONE)

- ϕ
- A
- B
- AUB

74. The factors of $x^2 + xy - 2xz - 2yz$ are: (MCQ - CHOOSE ONE)

- $(x+y)(x-2z)$
- $(x+y)(x+2z)$
- $(x-y)(x+2z)$
- $(x-y)(x-2z)$

75. The length and width of a rectangle is 42cm and 28cm respectively. The ratio between the two quantities is _____. (MCQ - CHOOSE ONE)

- $3/2$
- 3×2
- 3.2
- 3:2

Analytical

76. 64 is to 8 , ? is to 4 (MCQ - CHOOSE ONE)

- 16
- 3
- 4

- 5

77. ink is to pen , paint is to ? (MCQ - CHOOSE ONE)

- colour
- artist
- brush
- rubber

78. AFKP is to BGLQ , CHMR is to ? (MCQ - CHOOSE ONE)

- DINS
- DFKP
- DNIS
- EJOT

79. Ahmad started his home and traveled 10km towards North. Then he traveled 5km towards East. Then, he traveled 10km towards South. Finally, he traveled 5km towards West and reached at his destination. How far he is from his home. (MCQ - CHOOSE ONE)

- 30km
- 20km
- 15km
- 0km

80. Maria walks straight 300m and then turns left and walks 400m. Finally, she turns left and travel 300m. How far Maria is from her starting point? (MCQ - CHOOSE ONE)

- 400m
- 700m
- 1000m
- 1400m

81. A series is given with one number missing. Choose the correct alternative from the given that will complete the series. 138, 142, 146, 150, ?, 142, 138 (MCQ - CHOOSE ONE)

- 148
- 140
- 146
- 144

82. A series is given with one number missing. Choose the correct alternative from the given that will complete the series. 2, 4, 8, ?, 32 (MCQ - CHOOSE ONE)

- 6
- 36
- 16
- 46

83. A series is given with one number missing. Choose the correct alternative from the given that will complete the series. 0,1, 2, 3 , 5, 8, 13,? (MCQ - CHOOSE ONE)

- 19
- 13

- 21
- 22

84. A series is given with one number missing. Choose the correct alternative from the given that will complete the series. 3, 8, 15, 24, 35, ? (MCQ - CHOOSE ONE)

- 48
- 42
- 49
- 50

85. A series is given with one number missing. Choose the correct alternative from the given that will complete the series. 2, 6, 12, 20, 30, ?, 56, 72 (MCQ - CHOOSE ONE)

- 42
- 34
- 36
- 46

86. Which set of letters fill the gaps of the given letter series? UCP_ESTU_PTESTUC_T_ST (MCQ - CHOOSE ONE)

- TCPE
- TETE
- TCPC
- BCPT

87. Which set of letters fill the gaps of the given letter series? LEAR_M_THLEA_NMATH_EAR_MATH (MCQ - CHOOSE ONE)

- NATNT
- TARLT
- TATLN
- NARLN

88. Which set of letters fill the gaps of the given letter series? _ALCULUSC_LCULU_CAL_ULU_ (MCQ - CHOOSE ONE)

- CUSCS
- QASQS
- CASCS
- QUSCS

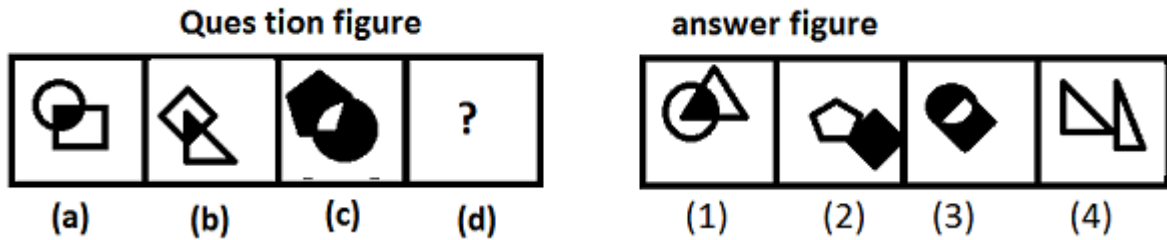
89. A milkman has 75 liters milk in one can and 45 liters in another. The maximum capacity of container which can measure milk of either container exact number of times is ___ liters: (MCQ - CHOOSE ONE)

- 10
- 15
- 20
- 25

90. A batsman has a certain average of runs for 11 innings. In the 12th inning, he makes a score of 90 runs, thereby increasing his average by 5. His average after the 12th inning is: (MCQ - CHOOSE ONE)

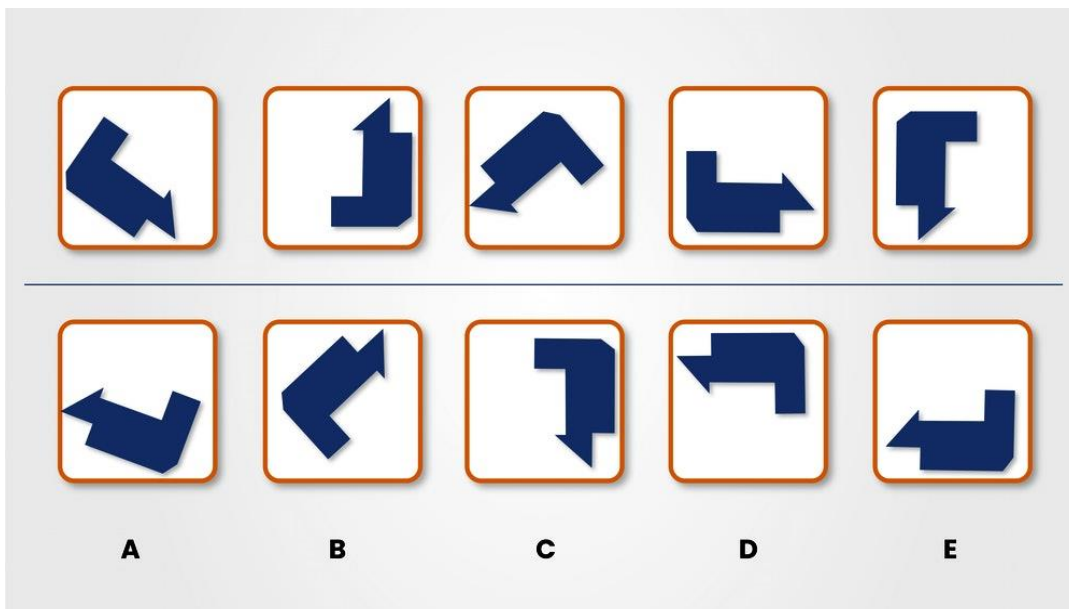
- 30
- 35
- 40
- 45

91. Please see the question figure and answer figure carefully. Find the most suitable answer. Answer figure from alternatives which are numbered from 1 to 4 by using the sequence of set of figures given in question figure.



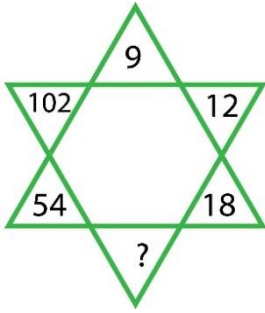
- a) 1
- b) 2
- c) 3
- d) 4

92. Please see the following boxes carefully. Which box contains the identical shape as the upper series?



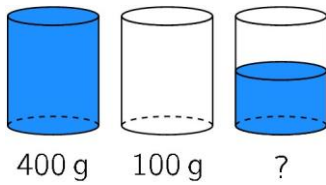
- A
- B
- C
- D

93. What number should replace the question mark?



- 30
- 28
- 38
- 58

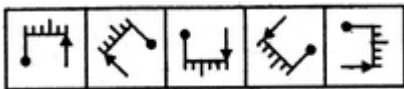
94. A full glass of water weighs 400 *grams*. An empty glass weighs 100 *grams*.



95. How many grams does a half-full glass of water weigh?

- 150
- 200
- 225
- 250
- 300

96. Choose the figure which is different from the other figures.

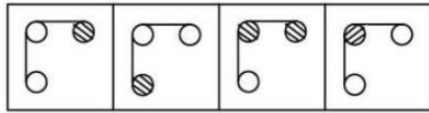
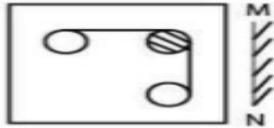


(1) (2) (3) (4) (5)

- 1
- 2
- 3
- 4
- 5

97. Choose the front mirror image for the following figure.

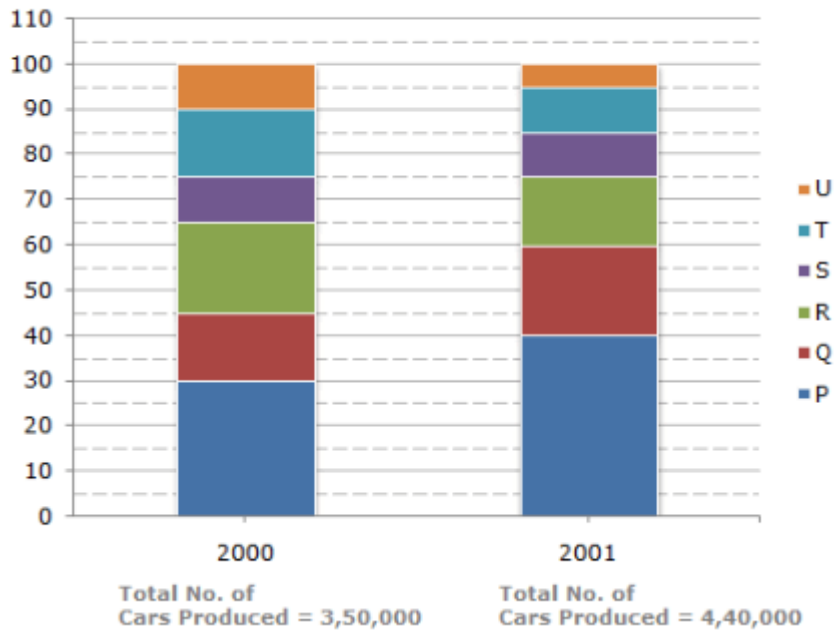
Figure



A B C D

- A
- B
- C
- D

Percentage of Six different types of Cars manufactured by a Company over Two Years



98. What was the difference in the number of Q type cars produced in 2000 and that produced in 2001?

- 35,500
- 27,000
- 22,500
- 17,500

Silverbrick International Lager Breweries Ltd. 2005

Brewery	Operational Costs (Millions Euros)	Marketing & Development (Millions Euros)	Monthly Output (Thousands litres)	Total Output as % of 2004	Revenues (Millions Euros)
Uxbridge, UK	3.6	12	12000	120%	25
Malmö, Sweden	0.3	2.2	1200	90%	3
Torino, Italy	2.8	3.5	8000	70%	14
Ottawa, Canada	0.28	8	1000	80%	3
Canberra, Australia	0.3	7	4500	110%	8

1 litre is sold for 1.5 euros

99. Which brewery produced the least in 2004?

- Uxbridge, UK
- Malmö, Sweden
- Torino, Italy
- Ottawa, Canada
- Canberra, Australia

Monthly family expenses distributed by expense category and economical class
(Poor-15-20K, Middle class-30-70K, Rich-150+)



100. Rich families spend _____ of money on food as poor and middle class families combined.

- More than twice the amount
- An equal amount

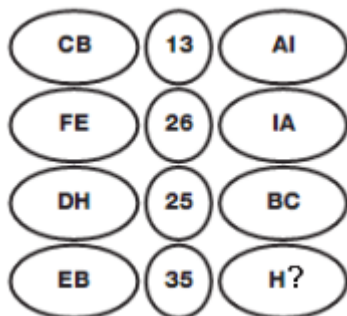
- More than three times the amount
- Half the amount

Years of Experience	Fitness Trainer	Client 1 (100-125kg)	Client 2 (125-150kg)	Client 3 (150-250kg)	Final Score
1	Susan	10	20	35	20.5
3	Megan	14	22	45	25.7
4	Tom	25	35	70	41.5
4	Brad	20	25	66	35.3
2	Peter	22	28	49	31.9
1	Melissa	25	33	62	38.5
3	Nick	16	18	52	27.4
2	Russel	14	15	39	21.8
2	Patty	8	12	22	13.4

101. Answer the following statements in either Yes or No:

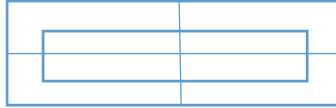
1. In calculating the final score for the contest, the weight loss for a fitness trainer's third client (Client 3) had equal weighting as the weight loss on Client 2.
2. The median final score for all fitness trainers was 27.40
3. In the data set for "Client 1" clients who worked with a fitness trainer having four years of experience, the range was 8.
 - Yes, Yes, Yes
 - No, No, No
 - No, No, Yes
 - Yes, Yes, No

102. Which letter can replace the question mark?



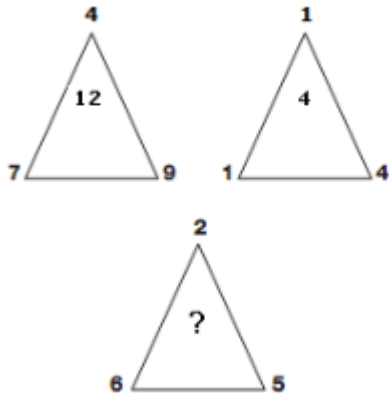
- G
- E
- K
- V

103. How many rectangles are there in the figure?



- 6
- 10
- 12
- 8

104. Which number replaces the question mark?



- 9
- 8
- 4
- 1

105. A reduction in the price of apples enables a person to purchase 3 apples for Rs. 60. Instead of Rs. 75. What is the percentage of reduction in price approximately? (MCQ - CHOOSE ONE)

- 20%
- 25%
- 30%
- 33.33%

Physics

106. Physical quantities are divided into (MCQ - CHOOSE ONE)

- Two categories
- Three categories
- Four categories

107. As many as we can

In equation $F = ma$, mass m is (MCQ - CHOOSE ONE)

- Gravitational mass
- Variable mass
- Inertial mass*
- None of the above

•

108. If a brick of mass 2.0 Kg is dropped from rest position 5 m above the ground, then its velocity at height of 3 m above the ground is (MCQ - CHOOSE ONE)

- 36 m/s
- 63 m/s
- m/s
- 6.3 m/s

109. When a body moves in a circle, the angle between its linear velocity and angular velocity is (MCQ - CHOOSE ONE)

- 0°
- 30°
- 45°
- 90°

•

110. One torr is equal to (MCQ - CHOOSE ONE)

- 13.33 N/m²
- 760 N/m²
- 760 mm hg
- 133.3 N/m²

•

111. For air medium the value of ϵ is (MCQ - CHOOSE ONE)

- 1.6
- 1.2
- 1.0
- 1.17

•

112. If a transverse wave travelling in a rare medium is incident on a denser medium, it is reflected such that it undergoes a change of (MCQ - CHOOSE ONE)

- 0°
- 90°
- 135°
- 180°

113. The frequency of stretched string when it vibrates in two loop is (MCQ - CHOOSE ONE)

- Equal to that when it vibrates in one loop
- Double than when it vibrates in one loop
- Triple than when it vibrates in one loop
- Four times than when it vibrates in one loop

114. A light wave produced by oscillating charge consists of a periodic vibration of (MCQ - CHOOSE ONE)

- Electric field
- Magnetic field
- Either of them

- Both of them

115. The light which has components in all directions is called (MCQ - CHOOSE ONE)

- Polarized light
- Intense light
- Unpolarized light
- None of them

116. Law of octaves was stated by: (MCQ - CHOOSE ONE)

- Dobereiner
- Moseley
- Newland
- Mendeleev

117. Which of the following periods contains 32 elements? (MCQ - CHOOSE ONE)

- 6
- 3
- 5
- 7

118. Keeping in view the size of atoms, which order is correct one? (MCQ - CHOOSE ONE)

- $Mg > Sr$
- $Lu > Ce$
- $Bs > Mg$
- $Cl > I$

119. Which of the following elements has maximum 1st ionization energy in the periodic table? (MCQ - CHOOSE ONE)

- He
- N
- Ar
- F

120. Across the short period melting point and boiling point of elements: (MCQ - CHOOSE ONE)

- Increases
- Decreases
- First increases then decreases
- Remain constant