



SNAP 2010 Question Paper

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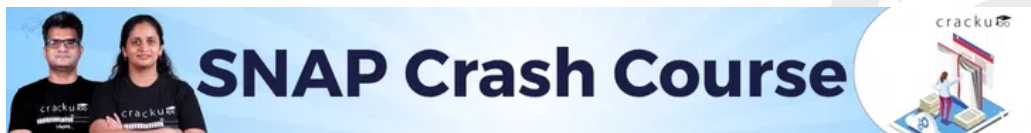
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Quantitative Aptitude

1. In a retail outlet, the average revenue was Rs.10,000 per day over a 30 day period. During this period, the average revenue on weekends (total 8 days) was Rs. 20,000 per day. What was the average daily revenue on weekdays?

- A 6364
- B 5250
- C 6570
- D 8060



2. Two different prime numbers X and Y , both are greater than 2, then which of the following must be true?

- A $X - Y = 23$
- B $X + Y$ is not equal to 87
- C Both 1 and 2
- D None of the above.

3. It takes 6 hours for pump A, used alone, to fill a tank of water. Pump B alone takes 8 hours to fill the same tank. A, B and another pump C all together fill the tank in 2 hours. How long would pump C take, used alone, to fill the tank?

- A 4.8
- B 6
- C 5.6
- D 3

4. A swimming pool can be filled by pipe A in 3 hours and by pipe B in 6 hours, each pump working on its own. At 9 am, pump A is started. At what time will the swimming pool be filled if pump B is started at 10 am?

- A 11:20 a.m.
- B 11:05 a.m.
- C 11:10 a.m.
- D 10:50 a.m.



5. The sum of prime numbers that are greater than 60, but less than 70 is :

- A 128
- B 191
- C 197
- D 260

6. Find out the appropriate next number in the series from the options below :

0, 2, 6, 12, 20, 30, 42, ?

- A 56
- B 62
- C 49
- D 5

7. A bakery opened with its daily supply of 40 dozen rolls. Half of the rolls were sold by noon, and 60% of the remaining rolls were sold between noon and closing time. How many dozen rolls were left unsold?

- A 6
- B 8
- C 10
- D 12



8. Stuart, Jack and Leo are colleagues working in a plant. Stuart and Jack can do a work in 10 days, Jack and Leo can do the same work in 15 days while Stuart and Leo can do it in 12 days. All of them started the work together. After two days, Leo was shifted to some other work. How many days will Stuart and Jack take to finish the rest of the work?

- A 9
- B 12
- C 8
- D 7.5

9. The missing numbers in the below series would be

1 : 1, 8 : 4, 9 : 27, 64 : 16, 25 : 125, ? : ?, 49 : 343

- A 36 : 316
- B 216 : 36
- C 316 : 16
- D 32 : 316

10. The difference between the value of a number increased by 25% and the value of the original number decreased by 30% is 22. What is the original number?

- A 70
- B 65
- C 40
- D 90



11. Running at the same constant rate, 6 identical machines can produce a total of 180 bottles per hour. How many bottles could 15 such machines produce in 30 minutes?

- A 225
- B 300
- C 250
- D 350

12. A number whose fifth part increased by 4 is equal to its fourth part diminished by 10, is :

- A 240
- B 260
- C 270
- D 280

13. Which of the following numbers will completely divide $(461 + 462 + 463 + 464)$?

- A 3
- B 10
- C 11
- D 13



14. Is 'b' positive?

- (I) $a + b$ is positive.
- (II) $a - b$ is positive.

- A Statement I alone is sufficient to answer the question.

- B Statement II alone is sufficient to answer the question.
- C Both statements I and II together are necessary to answer the question.
- D Both statements I and II together are not sufficient to answer the question.

15. In a general body election, 3 candidates, P, Q and R were contesting for a membership of the board. How many votes did each receive?

- (I) p received 17 votes more than q and 103 votes more than r.
- (II) Total votes cast were 1703.

- A Statement I alone is sufficient to answer the question.
- B Statement II alone is sufficient to answer the question.
- C Both statement I and II together are necessary to answer the question.
- D Both statements I and II together are not sufficient to answer the question.

16. If C1 and C2 are the circumferences of the outer and inner circles respectively. What is C1 : C2?

- (I) The two circles are concentric.
- (II) The area of the ring is $\frac{2}{3}$ the area of greater circle.

- A Statement I alone is sufficient to answer the question.
- B Statement II alone is sufficient to answer the question.
- C Both statement I and II together are necessary to answer the question.
- D Both statements I and II together are not sufficient to answer the question.



17. What is the middle number of 7 consecutive whole numbers?

- (I) Product of number is 702800.
- (II) Sum of the number is 105.

- A Statement I alone is sufficient to answer the question.
- B Statement II alone is sufficient to answer the question.
- C Both statements I and II together are necessary to answer the question.
- D Both statements I and II together are not sufficient to answer the question.

18. Total marks obtained by P, Q, R and S in Mathematics is 360. How many marks did P secure in Mathematics?

- (I) P secured one-third marks of the total of Q, R and S.
- (II) Average marks obtained by Q and R are 20 more than that secured by S.

- A Statement I alone is sufficient to answer the question.
- B Statement II alone is sufficient to answer the question.
- C Both statements I and II together are necessary to answer the question.

D Both statements I and II together are not sufficient to answer the question.

19. How many ice cubes can be accommodated in a container?

(I) The length and breadth of the container is 20 cm and 15 cm respectively.

(II) The edge of the ice cube is 2 cm.

A Statement I alone is sufficient to answer the question.

B Statement II alone is sufficient to answer the question.

C Both statements I and II together are necessary to answer the question.

D Both statements I and II together are not sufficient to answer the question.



20. Ram got Rs. 1,500 as dividend from a company. What is the rate of interest given by the company?

(I) The dividend paid last year was 10%.

(II) Ram has 350 shares of Rs. 10 denomination.

A Statement I alone is sufficient to answer the question.

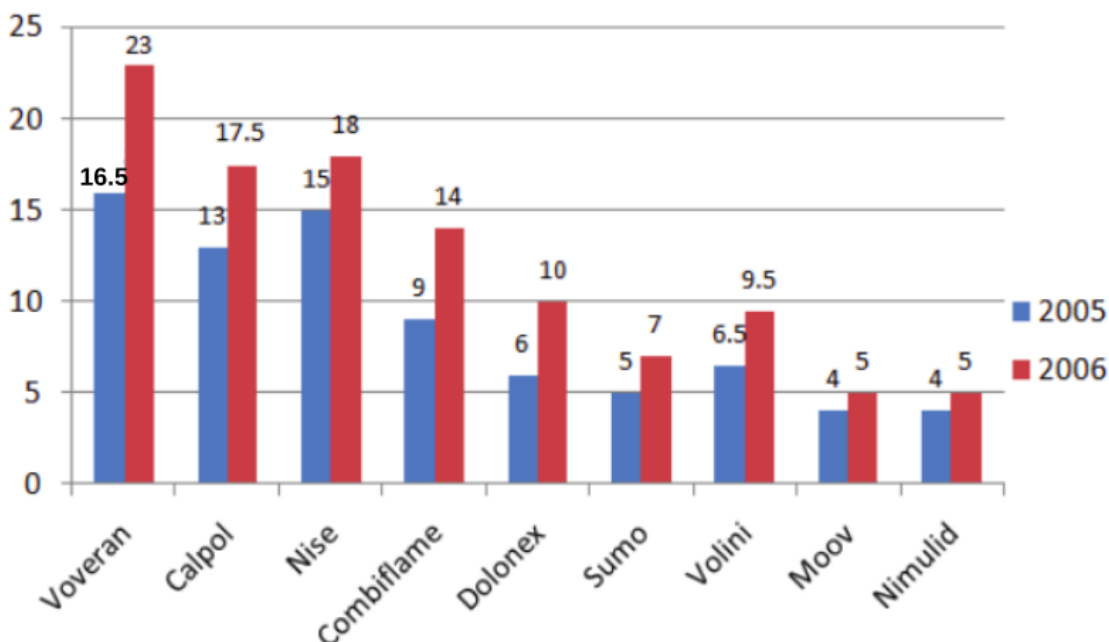
B Statement II alone is sufficient to answer the question.

C Both statements I and II together are necessary to answer the question.

D Both statements I and II together are not sufficient to answer the question.

Instructions [21 - 24]

Refer to the given bar diagram showing the sales (in Rs. crores) of top market brands among pain killers in India and answer the questions.



21. What is the difference between the sales of Voveran in 2006 and those of Calpol in 2005 (in Rs. lacs)?

A 1000

- B 50
- C 100
- D 500

22. Percentage of increase in sales from 2005 to 2006 is the highest for which brand of a pain killer?

- A Voveran
- B Volini
- C Dolonex
- D Sumo



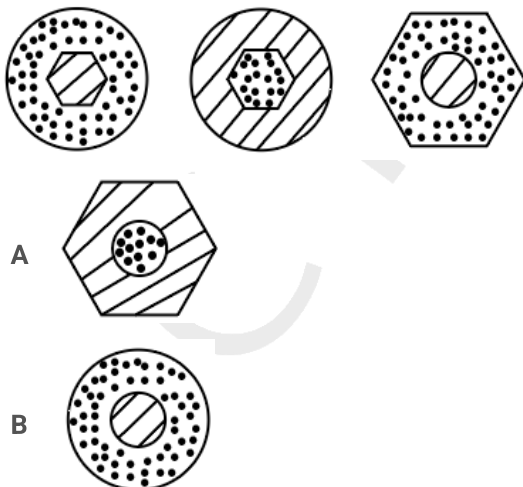
23. Percentage increase in sales from 2005 to 2006 is the lowest for which brand of a pain killer?

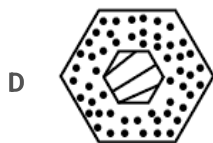
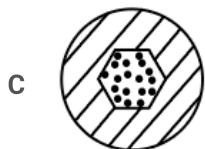
- A Voveran
- B Volini
- C Moov
- D Nise

24. What is the approximate percentage of increase in the sales of Voveran from 2005 to 2006?

- A 35%
- B 40%
- C 45%
- D 50%

25. Which of the designs best completes the following sequence?





26. What is the number that is one half of one-quarter of one-tenth of 400?

- A 2
- B 5
- C 8
- D 10

27. Consider a square ABCD with midpoints E, F, G and H of sides AB, BC, CD and DA. Let L denote the line passing through F and H. Consider points P and Q on the line L inside the square such that the angles APD and BQC are both equal 120 degrees. What is the ratio ABQCDP to the remaining area of ABCD?

- A $4 + \frac{(\sqrt{2})}{3}$
- B $2(\sqrt{3}) - 1$
- C $2 + (\sqrt{3})$
- D $\frac{(10-3(\sqrt{3}))}{9}$

28. The price of Darjeeling Tea (in rupees per kilogram) is $100 + 0.1n$, on the n th day of a nonleap year ($n = 1, 2, 3, \dots, 100$) and then remains constant. On the other hand the price of Ooty tea (in rupees per kilogram) is $85 + 0.15n$, on the n th day ($n = 1, 2, \dots, 365$). On which date of that year will the prices of these two varieties of the tea be equal?

- A 27th October
- B 16th June
- C 15th June
- D 28th October



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29. Triangle ABC and Triangle PQR are congruent.

- (I) Area of triangle ABC and triangle PQR are same
- (II) Triangle ABC and triangle PQR are right angle triangles.

- A** Data in Statement I alone is sufficient to answer the question but the data in Statement II alone is not sufficient to answer the question.
- B** Data in Statement II alone is sufficient to answer the question but the data in Statement I alone is not sufficient to answer the question.
- C** Data in statements I and II together are necessary to answer the question.
- D** Data in statements I and II together are not sufficient to answer the question.

30. Salary of A and B is in the ratio 3 : 4 and expenditure is in the ratio 4 : 5. What is the ratio of their savings?

- (I) B's saving is 25% of his salary.
- (II) B's salary is Rs. 2500.

- A** Data in Statement I alone is sufficient to answer the question but the data in Statement II alone is not sufficient to answer the question.
- B** Data in Statement II alone is sufficient to answer the question but the data in Statement I alone is not sufficient to answer the question.
- C** Data in both statements I and II together are necessary to answer the question.
- D** Data in both statements I and II together are not sufficient to answer the question.

31. What is the average height of the class?

- (I) Average height of the class decreases by 1 cm if we exclude the tallest person of the class whose height is 56 cm.
- (II) Average height of the class increases by 1 cm if we exclude the shortest person of the class whose height is 42 cm.

- A** Data in Statement I alone is sufficient to answer the question but the data in Statement II alone is not sufficient to answer the question.
- B** Data in Statement II alone is sufficient to answer the question but the data in Statement I alone is not sufficient to answer the question.
- C** Data in statements I and II together are necessary to answer the question.
- D** Data in statements I and II together is not sufficient to answer the question.



32. Ram is taller than Shyam and Jay is shorter than Vikram. Who is the shortest among them?

- (I) Ram is the tallest.
- (II) Shyam is taller than Vikram.

- A** Data in Statement I alone is sufficient to answer the question but the data in Statement II alone is not sufficient to answer the question.
- B** Data in Statement II alone is sufficient to answer the question but the data in Statement I alone is not sufficient to answer the question.
- C** Data in both statements I and II together are necessary to answer the question.

D Data in both statements I and II together is not sufficient to answer the question.

33. In September 2009, the sales of a product were $(\frac{2}{3})$ rd of that in July 2009. In November 2009, the sales of the product were higher by 5% as compared to September 2009. How much is the percentage of increase in sales in November 2009 with respect to the base figure in July 2009?

A +40%

B -20%

C -30%

D +25%

34. For what range of values of 'x', will be the inequality $15x - (\frac{2}{x}) > 1$?

A $x > 0.4$

B $x < \frac{1}{3}$

C $-\frac{1}{3} < x < 0.4, X > \frac{15}{2}$

D $-\frac{1}{3} < x < 0, X > \frac{2}{5}$



35. How many litres of a 30% alcohol solution should be added to 40 litres of a 60% alcohol solution to prepare a 50% solution?

A 30

B 20

C 24

D 32

36. 66 cubic centimetres of silver is drawn into a wire of 1mm diameter. The length of the wire in metres will be :

A 84

B 90

C 168

D 336

37. A train 108 m long moving at a speed of 50 km/hr crosses a train 112 m long coming from opposite direction in 6 seconds. The speed of the second train is,

A 48 km/hr

B 54 km/hr

C 66 km/hr

D 82 km/hr



38. R is a positive number. It is multiplied by 8 and then squared. The square is now divided by 4 and the square root is taken. The result of the square root is Q. What is the value of Q?

A 3R

B 4R

C 7R

D 9R

39. If the length, breadth and height of the room are in the ratio 3:2:1. The breadth and height of the room are halved and length of the room is doubled. Then area of the four walls of the room will,

A decrease by 13.64%

B decrease by 15%

C decrease by 18.75%

D decrease by 30%

40. A survey was conducted of 100 people whether they have read recent issues of 'Golmal', a monthly magazine. Summarized information is presented below :

Only September: 18

September but not August: 23

September and July: 8

September: 28

July: 48

July and August: 10

None of the three months: 24

What is the number of surveyed people who have read exactly for two consecutive months?

A 7

B 9

C 12

D 14



Reasoning

41. Four children A, B, C and D are having some chocolates each.

A gives B as many as he already has, he gives C twice of what C already has and he gives D thrice of what D already has.

Now, D gives $(1/8)$ th of his own chocolates to B.

Then A gives 10% chocolates he now owns to C and 20% to B.

Finally, all of them have 35 chocolates each. What is the original number of chocolates each had in the beginning?

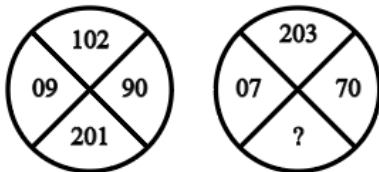
- A A - 110, B - 10, C - 10, D - 10
- B A - 90, B - 20, C - 20, D - 10
- C A - 70, B - 25, C - 25, D - 20
- D A - 125, B - 5, C - 5, D - 5



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42. There are two similar figures below with some numbers. The left one is complete where as one number is missing in the right one. Find a suitable number to fill in place of the question mark.



- A 280
 - B 303
 - C 362
 - D 382
43. Complete the following series by replacing the ? :
(TBLD, VEPI, XHTN, ?)
- A ZJVP
 - B ZVJP
 - C ZKXS
 - D ZKXP
44. In a cricket team, three batsmen Ricky, Sachin and Brian are the top three run-scorers in any order. Each of them gives two replies to any question, one of which is true and the other is false, again, in any order. When asked about who the top scorer was, following were the replies they gave:
Sachin : I got the top score. Ricky was second.
Brian : I got the top score. Sachin was second.

Ricky : I got the top score. Sachin was third.

Which of the following is the correct order of batsmen who got the top score, second best and third best score respectively?

- A Brian, Ricky, Sachin
- B Brian, Sachin, Ricky
- C Ricky, Sachin, Brian
- D Sachin, Brian, Ricky



45. 60 employees in an office were asked about their preference for tea and coffee. It was observed that for every 3 people who prefer tea, there are 2 who prefer coffee. For every 6 people who prefer tea, there are 2 who drink both of tea and coffee. The number of people who drink both is the same as those who drink neither.
How many people drink both tea and coffee?
- A 10
 - B 12
 - C 14
 - D 16
46. A clock strikes once at 1 o'clock, twice at 2 o'clock and so on. If it takes 6 seconds to strike at 3 o'clock, how much time will it take to strike at 9 o'clock?
- A 24 seconds
 - B 18 seconds
 - C 20 seconds
 - D None of these

Instructions [47 - 48]

E-1, E-2 and E-3 are three engineering students writing their assignments at night. Each of them starts at a different time and completes at a different time. The digit in their name and the order of their starting and completing the assignment is certainly not the same. The last student to start is the first to complete the assignment.

47. Who is the first student to start writing the assignment?
- A E-1
 - B E-2
 - C E-3
 - D Cannot be decided

48. Who is the last student to complete the assignment?

- A E-1
- B E-2
- C E-3
- D Cannot be decided

Instructions [49 - 50]

A, B and C are three students from Don School and P, Q and R are three students from Elite School. Q is brighter than R but duller than the Don School student who is brighter than A. The same Don School student is duller than P but is brighter than C.

49. Who is brightest amongst all?

- A B
- B P
- C R
- D Cannot be decided

50. Who is the dumbest amongst the three students from Elite School?

- A P
- B Q
- C R
- D Cannot be decided

51. When Rafael entered the class, there were already 10 students in the class. 5 students entered the class between Roger and Rafael. Total 10 students entered after Roger. Exactly how many students are in the class finally?

- A 15
- B 25
- C 27
- D Cannot be decided

Instructions [52 - 54]

Arijit, Biplab, Chintan, Debashish, Elangovan, Frederick, Gautam and Himadri are sitting around a circular table, Some information about the order in which they are sitting is available as follows:

- (1) Debashish is sitting opposite to Himadri and to the immediate right of Gautam.
- (2) Elangovan is sitting to the immediate right of Biplab.
- (3) Arijit is sitting opposite Chintan who is not immediately next to Frederick on either side.

52. Who is sitting to the immediate right of Himadri?

- A Arijit
- B Debashish
- C Elangovan
- D Frederick

53. Who is sitting opposite Biplab?

- A Arijit
- B Debashish
- C Frederick
- D Himadri



54. Who is to the immediate right of Chintan?

- A Arijit
- B Biplab
- C Elangovan
- D Himadri

55. Select the alternative that logically follows the two given statements:

Some rocks are not tables.

Some rocks are balloons.

- A Some tables are not balloons
- B Some tables are balloons
- C Some balloons are not tables
- D None of the above

Instructions [56 - 57]

A, B, C, D and E sit on a long bench. C does not sit next to A or E. A and E have three persons sitting between them.

56. Who is sitting in the middle of the bench?

- D** None of these



D None of these

Observe the chart and answer the following questions.

D 80



60. Find the missing numbers in the following set

2	4	6	8	10
2	14	34	??	98

- A 30
- B 62
- C 42
- D 78

61. There are 6 volumes of books on a rack kept in order (such as, vol. 1, vol. 2 and so on). After some readers used them, their order got disturbed. The changes showed as follows:

Vol.5 was directly to the right of vol. 2

Vol 4 has vol. 6 to its left and both were not at Vol.3's place.

Vol.1 has Vol.3 on right and Vol.5 on left.

An even numbered volume is at Vol.5's place.

Find the order in which the books are kept now, from the four given alternatives:

- A 6, 3, 5, 1, 4, 2
- B 4, 6, 3, 5, 1, 2
- C 3, 4, 1, 6, 5, 2
- D 2, 5, 1, 3, 6, 4

62. All German philosophers, except for Marx, are idealists. From which of the following can the statements above be most properly inferred?

- A Except for Marx, if someone is an idealist philosopher, then he or she is German.
- B Marx is the only non-German philosopher who is an idealist.
- C If a German is an idealist, then he or she is a philosopher, as long as he or she is not Marx.
- D Marx is not an idealist German philosopher.



63. Ramaswami was studying for his examinations and the lights went off. It was around 1:00 a.m. He lighted two uniform candles of equal length but one thicker than the other. The thick candle is supposed to last six hours and the thin one two hours less. When he finally went to sleep, the thick candle was twice as long as the thin one. For how long did Ramaswami study in candle light?

- A 2 hours
- B 3 hours

C 2 hours 45 minutes

D 4 hours

64. The numerator and denominator of a fraction is in the ratio 2:3. If 6 are subtracted from the numerator the value of the fraction becomes $\frac{2}{3}$ of the original fraction. The numerator of the original fraction is,

A 16

B 21

C 18

D 30

65. A person wanted to withdraw X rupees and Y paise from the bank. But cashier made a mistake and gave him Y rupees and X paise. Neither the person nor the cashier noticed that. After spending 20 paise, the person counts the money. To his surprise, he has double the amount he wanted to withdraw. Find X and Y. (1 Rupee = 100 Paise)

A $X = 3, Y = 6$

B $X = 26, Y = 53$

C $X = 15, Y = 30$

D $X = 9, Y = 36$



66. A drawer contains 10 black and 10 brown socks which are all mixed up. What is the fewest number of socks you can take from the drawer without looking and be sure to get a pair of the same color?

A 7 pairs

B 7 pieces only

C 10 pieces only

D 3 pieces only

67. A placement company has to assign 1000 SW personnel who are skilled in Java and Dot Net to a prospective outsourcing company. He finds that 750 are having Dot Net skills and 450 have Java skills. Some have skills in both Java and Dot Net. Find the numbers who have skills in both Java and Dot Net.

A 250

B 200

C 350

D 100

68. All good athletes who want to win are disciplined and have a well balanced diet. Therefore, athletes who do not have well balanced diets are bad athletes. Based on the sentence above which of the statement below strongly supports the view :

- A No bad athlete wants to win.
- B No athlete who does not eat a well balanced diet is good athlete.
- C Every athlete who eats a well balanced diet is good athlete.
- D All athletes who want to win are good athletes.



69. The numbers in these series are arranged in a triangle which has a logic as shown. Find the missing numbers shown as (?) from the choices given below:

```

      2
     2 2
    2 4 2
   2 8 ? 2
  2 16 64 16 2
 2 32 1024 ? ? 2

```

- A {16, 32, 64}
 - B {8, 1024, 32}
 - C {24, 1024, 64}
 - D {16, 320, 64}
70. If for a particular value of the variable x , the following holds good, $17 = \frac{17x}{(1-x)}$, then compute the value of $(2x)*x$.
- A 17
 - B 1
 - C 2
 - D $\frac{1}{2}$



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General Awareness

71. Name the failed Chinese pro-democracy activist who won this year's Nobel Peace Prize for his 'long and non-violent struggle for fundamental human rights in China.'
- A Went Xiabo
 - B Wen Jiabao
 - C Liu Jiabao

D Liu Xiaobo



72. Which government is behind the 'The Nalanda Proposal' proposing Nalanda as an ideal site for establishing a 21st century learning institution.

- A Singapore
- B India
- C U.K
- D China

73. Jimmy Wales and Larry Sanger are known for founding

- A Facebook
- B Orkut
- C Wikipedia
- D Google

74. The year 2010 is represented in Roman Numerals as

- A LX
- B MMX
- C IIXX
- D CCXX



75. In which country is the seat of the United Nations International Court of Justice?

- A France
- B Norway
- C Britain
- D Netherlands

76. In 1965 Gordon Moore, Co-founder of Intel, made a prediction about the future of computer processing. What does his prediction, known as Moore's Law say?

- A As technology continues to advance, computer chips will become obsolete.
- B Computer processing power will double every 18 months to two years.

- C There will eventually be no need for transistors in high-tech electronics.
- D As the number of transistors increases, computer processing power will be reduced by half in every two years.

77. 'At 60 miles an hour the loudest noise in this new Rolls-Royce comes from the electric clock.' Who wrote this famous advertising headline?

- A David Ogilvy
- B Walter Thompson
- C Leo Burnett
- D Salman Rushdie



78. His lie's motto was 'simple living and high thinking'. He was one of the greatest intellectuals and activists of the 19th century and one of the pillars of the Bengal Renaissance. He was a polymath. Sanskrit pundit, educator, social reformer writer and philanthropist. Due to his relentless efforts, on 26th July 1856, widow re-marriage was legalized by the then Government of India. Who is this towering personality?

- A Ishwar Chandra Vidyasagar
- B Raja Ram Mohan Roy
- C Rabindranath Tagore
- D Bankim Chandra Chatterjee

79. Eustace Fernandes who passed away in 2010 was the much admired creator of

- A Tom and Jerry
- B Amul Girl
- C Air India Maharaja
- D Snow White

80. Find the mismatch

- A Somdev Devvaman - Badminton
- B Gagan Narang - Shooting
- C Arjun Atwal - Golf
- D Anita Sood - Swimming



81. Who designed the new rupee symbol?

- A Dilip Chhabria
- B D. Udaya Kumar
- C Tarun Tahiliani
- D S. Arun Kumar

82. What exactly is cloud computing/

- A A way to organize desktop computers.
- B Lightweight software that takes up little space on a hard drive
- C Computing resources that can be accessed on demand, like electricity from a utility
- D The World Wide Web.

83. What is NDM-1?

- A National Defence Missile 1, developed by Defence Research and Development Organization (DRDO) as a part of the comprehensive missile shield for India.
- B A bacterial gene called New Delhi Metallolactamase-I, dubbed the 'superbug' because of it being resistant to most antibiotics.
- C New Directions in Management I - the first among a series of international conferences on Management, to be inaugurated by Bill Gates in Mumbai in January 2012.
- D A vision document on Disaster Management, released by Planning Commission.



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84. 'Niyamgiri Hills' was in the news because of

- A Vedanta's failed mining proposal in the area inhabited by Dongria Kondh tribals.
- B The helicopter crash and death of Y.S. Rajasekhara Reddy.
- C Headquarters of the Naxalite Red corridor.
- D Condé Nast Traveller magazine selected it as the best trekking holiday spot in the world.

85. Match the following husband-and-wife team with the awards they have received for exemplary work:

1	Bill and Melinda Gates	i	Right to Livelihood Awards
2	Sankaralingam and Krishnammal	ii	UN Population Award
3	Prakash and Mandakini Amte	iii	Kyoto Prize
4	Peter and Rosemary Grant	iv	Magsaysay Award

- A 1-ii, 2-i, 3-iii, 4-iv

- D** 1-ii, 2-iv, 3-iii, 4-iv

86. What is Renminbi?

- D** New currency mooted for the entire ASEAN region like Euro for Europe.



87. Embraer is one of the world leaders in the manufacturing of corporate/business jets. Embraer belongs to which country?

- D** France

88. The Unique Identification (UID) Project, headed by Nandan Nilekani has been renamed as

- D** Alekh

89. India's first Special Economic Zone dedicated to the Aerospace Industry has been launched at

- D** Ahmedabad



90. The prime purpose of WTO is to promote

- A Financial Support
- B Global Peace
- C Unilateral Trade
- D Multilateral Trade

91. On March 5, 2010, which of the following personalities from India is among 19 members chosen by UN chief Ban Ki-moon for a high-level advisory group on Climate Change Financing tasked with mobilizing funds pledged during the Copenhagen meet to tackle global warming?

- A Shyam Saran
- B Montek Singh Ahluwalia
- C Chandrashekhar Dasgupta
- D Pradipto Ghosh

92. Prime Minister Manmohan Singh has termed the 11th Five Year Plan as:

- A India's health plan
- B India's poverty eradication plan
- C India's rural prosperity plan
- D India's education plan



93. Which of the following milestones was achieved by New Zealand Cricket Team Captain Daniel Vettori recently?

- A 2,000 runs and 200 wickets in Test Cricket
- B 3,000 runs and 300 wickets in One Day Internationals (ODI)
- C 3,000 runs and 300 wickets in Test Cricket
- D 2,000 runs and 200 wickets in One Day Internationals (ODI)

94. What is the full form of the term 'NPA' as used in banking environment?

- A Not Profitable Assets
- B New Potential Assets
- C Non Performing Assets
- D Net Performing Assets

95. Which of the following contributes to the highest share of revenue earned by the Government of India?

- A Income Tax

- B** Excise Duty
- C** Value Added Tax
- D** Corporate Tax



96. Which country was world's largest exporter with merchandise exports worth Rs. 1.47 trillion in 2008, according to the World Trade Organization?
- A USA
- B China
- C Germany
- D Russia
97. Where in India, recently has the Clinton Foundation, founded by former US President Bill Clinton, firmed up its plans to set up world's largest solar park (3,000 to 5,000 MW capacity)?
- A Bihar
- B Orissa
- C Gujarat
- D Rajasthan
98. Which three public sector lenders have entered recently into a joint venture agreement for setting up a banking subsidiary, India BIA Bank (Malaysia) Bhd, in Malaysia?
- A Bank of India, Indian Overseas Bank and Andhra Bank
- B Bank of Baroda, Indian Overseas Bank and Bank of india
- C Bank of Baroda, Indian Overseas Bank and Andhra Bank
- D Bank of Baroda, Indian Bank and Andhra Bank



- 99.** What is the campaign of Union and State Governments against the Naxalite movement called?
- A** Operation Red Alert
 - B** Operation Green Hunt
 - C** Operation Cobra Den
 - D** Operation Clean Corridor
- 100.** The instrument used to measure the speed of the wind is

- A Altimeter
- B Anemometer
- C Chronometer
- D Dosimeter

101. Which of the following countries is the first in the world to propose a carbon tax for its people to address global warming?

- A Finland
- B Japan
- C Germany
- D Australia



102. Amino acids are found in

- A Carbohydrates
- B Fats
- C Proteins
- D Vitamins

103. Which among the following is the world's largest milk producing country?

- A India
- B China
- C The US
- D Germany

104. A group of words that share the same spelling and the same pronunciation but have different meanings; e.g. left (opposite of right) and left (past tense of leave)

- A Synonyms
- B Homonyms
- C Heteronyms
- D Acronyms



105. The National Flag of India was designed by

- A** Mahatma Gandhi
- B** Jawaharlal Nehru
- C** Rabindra Nath Tagore
- D** Pingali Venkayya

106. In 1679, Denis Papin, a French physicist, who assisted Robert Boyle, used the latter's scientific discoveries and invented what is today one of the most commonly found kitchen equipment. His invention earned him a membership of the Royal Society of England. What was the invention?

- A** Knife
- B** Fork
- C** Pressure Cooker
- D** Stove

107. Mr. Ratan Tata refused a job with one of the following companies to join Tata Steel in 1962. Which company was it?

- A** IBM
- B** HUL
- C** Seimens
- D** SKF International



108. Which of the following have owned Land Rover brand before Tata Motors?

- A** BMW
- B** British Leyland
- C** British Aerospace
- D** All of the above

109. Who is known as 'The Man Who Broke the Bank of England' after he made a reported \$1 billion during the 1992 Black Wednesday UK currency crisis?

- A** George Soros
- B** George W Bush
- C** Paul Volcker
- D** Ben Bernanke

110. Who is the current dean of Harvard Business School?

- A Nitin Nohria
- B Deepak Jain
- C Kim Clark
- D None of these



General English

Instructions [111 - 114]

Read the passage and then determine the best choice for an answer from the questions given below. Base your choice on what this passage states directly or implies, not on any information you may have got from elsewhere.

"The emancipation of women", James Joyce told one of his friends, "has caused the greatest revolution in our time."

Other modernists agree: Virginia Woolf, claiming that in about 1910 "human character changed" and illustrating the new balance between the sexes, urged, "Read the 'Agamemnon' and see whether your sympathies are not almost entirely with Clytemnestra". D.H. Lawrence wrote "perhaps the deepest fight for 200 years and more has been the fight for women's independence".

But if modernist writers considered women's revolt against men's domination as one of their "greatest" and "deepest" themes, only recently, perhaps in the past 15 years has literary criticism begun to catch up with it. Not that the images of sexual antagonism that abound in modern literature have gone unremarked - far from it. We are able to see in literary works the perspective we bring to them and now that women are enough to make a difference in reforming canons and interpreting literature, the landscapes of literary history and the features of individual books have begun to change.

111. According to the passage, modernists are changing literary criticism by :

- A Noting instances of hostility between men and women
- B Seeing literature from fresh points of view
- C Studying the works of early twentieth-century writers
- D Reviewing books written by feminists



112. The author quotes James Joyce, Virginia Woolf and D.H. Lawrence primarily in order to show that:

- A These were feminist writers
- B Although well-meaning, they were ineffectual
- C Before the twentieth century, there was little interest in women's literature

D None of the above

113. The author's attitude towards women's reformation of literary canons can best be described as one of:

A Ambivalence

B Antagonism

C Indifference

D Endorsement

114. Which of the following titles best describes the contents of the passage?

A Modernist Writers and the Search for Equality

B The meaning of Literature from 1910 onwards

C Transforming Literature

D None of the options



115. Choose the correct sentence

A A anthropologist by profession, he is also a trained classical singer.

B The anthropologist by profession, he is also a trained classical singer.

C As anthropologist by profession, he is also a trained classical singer.

D An anthropologist by profession, he is also a trained classical singer.

116. Fill in the blanks and choose the correct definition for the punctuation.

_____ is used to indicate possession.

A Hyphen

B Apostrophe

C Semi colon

D Period

117. Fill in the blanks and choose the correct definition for the punctuation.

_____ is used to mark the end of declarative and imperative sentences.

A Semicolon

B Comma

C Dash

D Period



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118. Fill in the blanks and choose the correct definition for the punctuation.

When a subordinate clause is followed by the main clause, _____ is required.

- A Dash
- B Semi-colon
- C Comma
- D Colon

119. Fill in the blanks and choose the correct definition for the punctuation.

When no connecting word is used to connect two independent clauses, one should use _____.

- A Comma
- B Semi-colon
- C Period
- D Colon

120. Which is the correct proverb?

- A Sleeping dogs tell lies.
- B Dogs sleeping lie till late.
- C Lie sleeping dogs till the dawn comes.
- D Let the sleeping dogs lie.



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121. Which is the correct proverb?

- A A fool is always parted from his money.
- B A fool and his money are parted easily.
- C Money and the fool must part ways.
- D You can always part a fool from his money.

Instructions [122 - 127]

Choose the correct meaning of the following idiom.

122. If someone said, "You are the bomb!" she or he probably would be telling you:

- A You have a bad temper.
- B You are a war weapon.

C You are exceptional and/or wonderful.

D You are dangerous.

123. When someone is described as being "flighty", the person described is probably:

A Light.

B Indecisive and irresponsible.

C Someone who loves flying.

D Someone who flies kites.



124. What does "to take down the enemy" mean?

A To take the enemy's pictures off the wall.

B To kill the enemy.

C To make friends with the enemy.

D To ignore the enemy.

125. What does, "Dime a dozen" mean?

A For one dime you get a dozen

B All dozens cost a dime

C Anything that is common and easy to get.

D It is difficult to get people.

126. "Throw the baby out with the bath water" means,

A Clean out everything

B Throw out the good things with the unwanted.

C Being thorough

D Create the impression of an accident



127. "Bark up the wrong tree" means,

A Skin of another animal

B Behave like a dog

- D** Make the wrong choice

128. I _____ my bike yesterday, so my legs are sore.

- A** road
B rode
C rhode
D ride

129. Insulation was fitted to ____ further heat loss from the building.

- A** guard
- B** protect
- C** save
- D** prevent



130. A _____ rate of inflation makes exports difficult.

- A** great
B high
C large
D tall

131. My boat has two _____.

- A** sales
- B** sails
- C** sailes
- D** sells

132. Can you give me _____ details, please?

- A** faster
- B** further
- C** farther
- D** furthur



133. A baby deer is called a ____.

- A Foal
- B Fawn
- C Calf
- D Joe

Instructions [134 - 137]

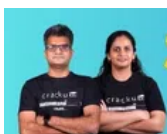
Complete the sentence by choosing the correct words from the given alternatives.

134. The greatest ____ of my generation is that a human being can alter his life by ____ his attitude.

- A gift ... gifting
- B discovery ... altering
- C misgiving ... elevating
- D thing ... flaunting

135. When it comes to staying ____, a mind-lift beats a ____ any day.

- A young ... face-lift
- B at home ... egg
- C light ... elevator
- D away ... sleep



136. None are so ____ as those who are full of themselves.

- A empty
- B important
- C vital
- D indispensable

137. Your most unhappy customers are your greatest source of ____.

- A earning
- B irritation
- C worry

D learning

138. Choose the correct antonym for the word below from the options provided.
'Eulogize'

A Extol

B Criticize

C Emulate

D Amulet



139. Correct synonym for Pedantic is,

A Referring to small children

B Teaching Methodology

C Finicky

D Angry

140. Pyrophobia mean

A Fear of pythons

B Fear of funeral pyres

C Fear of fever

D Fear of fire

Instructions [141 - 142]

Choose the kangaroo word that carries a small version of the word with a very similar meaning:

A Masculine

B Woman

C Man

D Child



A Sleep

B Respite

C Walk

D Talk

141. Choose the word that completes the first and begins the second word.

Paper _____ and _____ lifter.

A cone

B weight

C light

D fly

142. Choose the word that cannot be coupled with the given word to form a new word. Out

A Shine

B Number

C Bug

D Run



143. Choose the word that cannot be coupled with the given word to form a new word.

News

A Letter

B Week

C Stand

D Paper

144. I did not see you _____ the office party.

A in

B for

C at

D on

145. Fill in the blanks with the correct simile.

As cool as

A a cucumber

B the winter night

C an ice cream

D a rock star



146. Fill in the blanks with the correct simile.

As fresh as

- A a daisy
- B a rose
- C milk
- D dew

147. Choose the option that does not belong with the rest:

- A Consort
- B Spouse
- C Partner
- D Clear

148. Nerd means

- A Genius
- B Uninteresting person
- C Worm
- D Arthropod



Answers

Quantitative Aptitude

1.A	2.B	3.A	4.A	5.A	6.A	7.B	8.D
9.B	10.C	11.A	12.D	13.B	14.D	15.C	16.B
17.B	18.A	19.D	20.B	21.A	22.C	23.D	24.B
25.A	26.B	27.B	28.B	29.D	30.A	31.C	32.B
33.C	34.D	35.B	36.A	37.D	38.B	39.D	40.B

Reasoning

41.A	42.A	43.C	44.A	45.B	46.A	47.C	48.A
49.B	50.C	51.D	52.A	53.C	54.B	55.D	56.B
57.A	58.C	59.B	60.B	61.D	62.C	63.B	64.C
65.B	66.D	67.B	68.B	69.B	70.D		

General Awareness

71.D	72.A	73.C	74.B	75.D	76.B	77.A	78.A
79.B	80.A	81.B	82.C	83.B	84.A	85.B	86.A
87.C	88.A	89.B	90.D	91.B	92.D	93.C	94.C
95.D	96.C	97.C	98.C	99.B	100.B	101.A	102.C
103.A	104.B	105.D	106.C	107.A	108.D	109.A	110.A

General English

111.B	112.D	113.D	114.C	115.D	116.B	117.D	118.C
119.B	120.D	121.B	122.C	123.B	124.B	125.C	126.B
127.D	128.B	129.D	130.B	131.B	132.B	133.B	134.B
135.A	136.A	137.D	138.B	139.C	140.D	141.A	142.B
143.B	144.C	145.B	146.C	147.A	148.A	149.D	150.B

Explanations

Quantitative Aptitude

1. **A**

Total revenue of the 30-day period = Rs.10000 x 30 days = Rs.300000

Total revenue of the weekends (8 days) = Rs.20000 x 8 days = Rs. 160000

Total revenue of weekdays = (300000-160000) = Rs. 140000

Avg. daily revenue on weekdays = $140000/22 = \text{Rs.}6363.63 \approx \text{Rs.}6364$

2. **B**

2 is the only even prime number. Rest are odd. If both X and Y are greater than 2, they must be odd and sum of 2 odd nos. can never be odd. So option '2' is correct.

3. **A**

Assuming tank volume to be 48 litres,

Flow rate through pump A = $48/6 = 8$ litres/hr

Flow rate through pump B = $48/8 = 6$ litres/hr

Flow rate through pumps A, B, C together = $48/2 = 24$ litres/hr

So, flow rate of pump C alone = $24 - (8+6) = 10$ litres/hr

\therefore Time taken by C alone to fill the tank = $48/10 = 4.8$ hrs

4. **A**

Let pool volume be 30 litres.

Flow rate through A = $30/3 = 10$ litres/hr

Flow rate through B = $30/6 = 5$ litres/hr

A is opened at 9:00am and then B is opened at 10:00 am. So, A alone fills the tank for an hour to 10 litres.

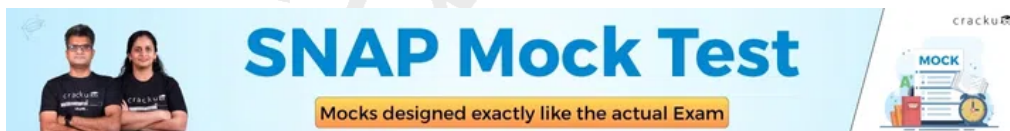
After 10:00am both are opened simultaneously.

Remaining 20 litres of the pool are filled at a combined flow rate of 15 litres/hr which takes 80 min to get filled.

\therefore The pool is filled 80 mins after 10:00am i.e. 11:20am

5. **A**

There are 2 prime nos. between 60 and 70 which are 61 and 67. Their sum is 128.



6. **A**

In the given series, the difference between the terms is in A.P. with a common difference of 2.

$$30-20 = 10$$

$$42-30 = 12$$

So, next term will be $42+14 = 56$

7. **B**

They started with 40 dozen rolls. Half of them (=20 dozen) were sold by noon.

40% of the remaining rolls (half of 40 dozen) were left unsold, which is $0.4 \times 20 = 8$ dozen rolls

8. **D**

Let the total work be 120 units.

Let efficiencies of Stuart = s , Jack = j , Leo = l.

We know, Efficiency x Time = Work done.

Forming 3 eqns.:

$$s + j = 120 \text{ units/ 10 days} = 12 \text{ units/day}$$

$$j + l = 120 \text{ units/ 15 days} = 8 \text{ units/day}$$

$$s + l = 120 \text{ units/ 10 days} = 10 \text{ units/day}$$

On solving the above 3 eqns. , we get

$$s = 7 \text{ units/day , } l = 3 \text{ units/day , } j = 5 \text{ units/day}$$

All 3 start together but Leo leaves after 2 days.

$$(15 \times 2) + (12 \times n) = 120$$

$$\Rightarrow n = 7.5 \text{ days}$$

∴ To finish rest of the work, Stuart and Jack take 7.5 days.

9. **B**

$$\text{1st term - } 1^2:1^3$$

$$\text{2nd term - } 2^3:2^2$$

$$\text{3rd term - } 3^2:3^3 \text{ ...and so on.}$$

$$\text{The missing term is } 6^3:6^2$$

Alternate:

Let us assume n is the nth term of the series-

$$\text{When n is odd, the term is } n^2 : n^3$$

$$\text{When n is even, the term is } n^3 : n^2$$

$$\text{For n = 1,}$$

$$1:1$$

$$\text{For n = 2,}$$

$$8:4$$

$$\text{For n = 3,}$$

$$9:27$$

$$\text{For n = 4}$$

$$64:16$$

$$\text{Similarly, for n = 6}$$

$$216:36$$

10. **C**

Let the number be N.

If the number increases by 25%, it becomes 1.25N, and if it decreases by 30%, then it becomes 0.7N. The difference between them is given as 22,

$$1.25 N - 0.7 N = 22$$

$$\Rightarrow N = 22/0.55 = 40$$



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11. **A**

Machines are identical. So, each machine produces $180/6 = 30$ bottles/hr

15 such machines will produce 450 bottles in an hour.

So, in 30 mins 15 machines will produce 225 bottles.

12. **D**

Let the number be N.

$$(N/5) + 4 = (N/4) - 10$$

$$\Rightarrow N = 280$$

13. **B**

On adding the units digits of the numbers, we get sum as 10.

\therefore The summation will be divisible by 10.

14. **D**

Case 1 - b \rightarrow positive

Let $a=10, b=1$.

Here $(a-b)$ and $(a+b)$ both are positive.

Case 2 - b \rightarrow negative

Let $a=10, b=-1$.

Here also $(a-b)$ and $(a+b)$ both are positive.

\therefore Both statements I and II together are not sufficient to answer the question.

15. **C**

Let the votes received by P = p, Q = q, R = r.

We can form 2 eqns. from the statements given:

$$p = 17 + q = 103 + r$$

Total votes cast = 1703

using all 3 eqns,

$$p + q + r = 1703$$

\therefore Both statement I and II together are necessary to answer the question.



16. **B**

The area between the 2 circles is $\pi (R^2 - r^2)$. The ratio of this area to that of the bigger circle's is $2/3$.

$$\text{So, } \pi (R^2 - r^2) = (2/3) \pi (R^2)$$

$$\Rightarrow (R^2) = 3 \times (r^2)$$

$$\Rightarrow r/R = (1/\sqrt{3})$$

$$\Rightarrow (2\pi r)/(2\pi R) = (1/\sqrt{3}) = C1:C2$$

\therefore Statement II alone is sufficient to answer the question.

17. **B**

Let the middle number be 'a'.

$$\text{From statement 1, } (a-3)(a-2)(a-1)(a)(a+1)(a+2)(a+3) = 702800$$

On solving this, the value of 'a' that we get is between 7 and 8 and is not a whole number.

from statement 2, $(a-3)+(a-2)+(a-1)+(a)+(a+1)+(a+2)+(a+3) = 105$

On solving this, we get $a = 15$.

∴ Statement II alone is sufficient to answer the question.

18. **A**

From statement 1, $3p = q + r + s$

we know that $p + q + r + s = 360$

$\Rightarrow p + 3p = 360$

$\Rightarrow p = 90$

Statement 2 gives no relation of p with q, r and s.

∴ Statement I alone is sufficient to answer the question.

19. **D**

The container and the ice cube are three-dimensional objects, meaning they have a height, breadth and width.

Since the ice is in a cube shape, we know its dimensions from statement 2.

However, the container is not specified to be any shape. We only know two of the three dimensions. Hence, we cannot find out the number of ice cubes needed to fill the container.

20. **B**

Statement 1 gives last year's data which is irrelevant.

Statement 2 gives us his total investment which is Rs. 3500

Rate of interest offered by the company is $(\text{Dividend}/\text{Investment}) \times 100$.

∴ Statement II alone is sufficient to answer the question.



21. **A**

The sales of Voveran in 2006 = 23 Crore

The sales of Calpol in 2005 = 13 Crore

Difference = 10 Crore

i.e 1000 lakhs

22. **C**

Percentage of increase in sales from 2005 to 2006:

Voveran: $(23-16)/16 = 43.75$

Volini: $(9.5-6.5)/6.5 = 46.15$

Dolonex: $(10-6)/6 = 66.66$

Sumo: $(7-5)/5 = 40$

Option C is correct.

23. **D**

Percentage of increase in sales from 2005 to 2006:

Voveran: $(23-16)/16 = 43.75\%$

Volini: $(9.5-6.5)/6.5 = 46.15\%$

Moov: $1/4 = 25\%$

Nise: $(18-15)/15 = 20\%$

Option D

24. **B**

Percentage of increase in sales from 2005 to 2006:

Voveran: $(23-16.5)/16.5 = 39.39\%$..(nearly) 40%

Option B

25. **A**

Option A is correct,

In the centre region, the dots and stripes are alternating, thus the centre will now be "dots".

Hexagon and circles will alternate in twos.



26. **B**

one-tenth of 400 = 40

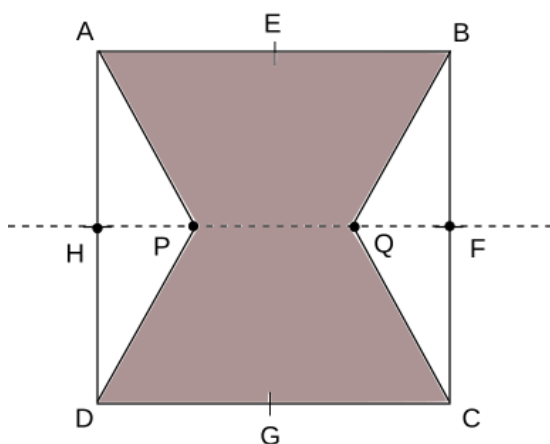
one-quarter of 40 = 10

one half of 10 = 5

Option B

27. **B**

We can make the following figure from the information given in the question:



Suppose the side of the square ABCD = $2a$

Angle HAP = 30°

HA = a

HP = $\frac{a}{\sqrt{3}}$

Area HAP = $\frac{a^2}{2\sqrt{3}}$

Remaining Area = $4 * \frac{a^2}{2\sqrt{3}}$

Area of the shaded region = $4a^2 - 4 * \frac{a^2}{2\sqrt{3}}$

Ratio = Shaded/ Remaining = $2\sqrt{3}-1$

28. **B**

The price of Darjeeling Tea (in rupees per kilogram) is $100 + 0.1n$ till 100th day and remains constant

The price of Ooty tea (in rupees per kilogram) is $85 + 0.15n$

Price of Darjeeling tea on 100th day = $100 + 0.1(100) = 110$

Price of Ooty tea on 100th day = $85 + 0.15(100) = 100$

Their prices are not equal

Therefore, $110 = 85 + 0.15n$

$$n = \frac{500}{3} = 166.67$$

Price will be equal on 167th day

January(31) + February(28) + March(31) + April(30) + May(31) = 151 days

June 16th is 167th day.

Answer is option B

29. **D**

Statement I:

If area of triangle ABC and PQR are equal, we cannot infer that they are congruent. Hence, statement I alone is not sufficient to answer the question.

Statement II:

If both triangles ABC and PQR are right angled triangles, we cannot say whether they are congruent or not. Hence, statement II alone is not sufficient to answer the question.

Considering both the statements, we do not have any condition regarding sides or angles of triangles. Therefore, statement I and statement II together are not sufficient to answer the question.

30. **A**

Let salary of A be $3x$ and salary of B be $4x$

Let expenditure of A be $4y$ and B be $5y$

Now Statement 1 says B save 25% of his salary

So savings of B = x

Now we can say : $x = 4x - 5y$ (As Savings = Income - Expenditure)

we get : $3x = 5y$

$y = 3x/5$ Now Therefore savings of A : $3x - 4y = 3x - 4(3x/5)$

And then we can calculate ratio of savings .

So statement 1 alone is sufficient .

Now Statement 2 says

B's salary is 2500

Now as we do not know anything about expenditure of B so we cannot calculate savings of B and henceforth savings of A

so Statement 2 alone is not sufficient

A promotional banner for 'SNAP Mock Test'. It features a blue background with the text 'SNAP Mock Test' in large, bold, white letters. Below this, a yellow banner reads 'Mocks designed exactly like the actual Exam'. On the left, there is a photo of two students, a man and a woman, both wearing 'CRACKU' t-shirts. On the right, there is a small illustration of a desk with a laptop, a clock, and a book, with the word 'MOCK' written above it. The 'cracku' logo is in the top right corner.

31. **C**

Let x be the average height of the class and n be the number of students in the class.

Consider statements I alone

$$xn - 56 = (x - 1)(n - 1)$$

$$\Rightarrow x + n = 57 \quad (1)$$

Hence, the value of x cannot be found. So, I alone is not sufficient.

Consider statement II alone:

$$xn - 42 = (x + 1)(n - 1)$$

$$\Rightarrow x - n = 41 \quad (2)$$

Hence, the value of x cannot be found. So, II alone is not sufficient.

Both the statements together are sufficient as the value of x can be found by solving (1) and (2)

32. **B**

Given that Ram > Shyam, Vikram > Jay.

Hence from this we can conclude that neither Ram nor Vikram is the shortest. And we have to find the shortest. And we have to find the shortest among them:

Consider statement alone:

We know that that Ram is not the shortest, either Shyam or Jay is the shortest.

Hence (I) alone is not sufficient.

Consider statement I alone Shyam > Vikram.

From the given information and the information in (II), we get Ram > Shyam > Vikram > Jay.

Hence, (II) alone is sufficient.

33. C

Let the total sales in July 2009 be Rs. x

Then, sales in September 2009 = Rs. $2x/3$

Sales in November 2009 :

= 105% of Rs. $\frac{2x}{3}$

= Rs. $\frac{105}{100} \times \frac{2x}{3}$

= Rs. $\frac{7x}{10}$

Now, the percentage change in sales :

$$\left(\frac{\frac{7x}{10} - x}{x} \right) \times 100 = \frac{-3x}{10x} \times 100 = -30\%$$

34. D

We have

$$15x - \frac{2}{x} > 1$$

Multiple by x on both sides considering $x > 0$

$$\Rightarrow 15x^2 - 2 > x$$

$$\Rightarrow 15x^2 - x - 2 > 0$$

$$\Rightarrow 15x^2 - 6x + 5x - 2 > 0$$

$$\Rightarrow (3x+1)(5x-2) > 0$$

we get $x > 2/5$ or $x < -1/3$ but this is not considered as we have taken $x > 0$

If $x < 0$ the sign of inequality will reverse, and for it to be satisfied we will get the values of x between $-1/3 < x < 0$

Hence, the answer is Option D

35. B

Let the volume be V of 30% alcohol solution

Now amount of alcohol = $0.3V$

Amount of alcohol in 40 liters solution = 24

Now total volume = $V+40$

Total amount of alcohol = $(V+40)(0.5) = 0.5V + 20$

Now Equating amount of Alcohol :

we get $0.3V + 24 = 0.5V + 20$

we get $V = 20$



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36. A

Volume will be same

Let length be h

we get :

$$66 = \pi \times \frac{1}{20} \times \frac{1}{20} \times x$$

Cross multiplying

we get $x = 8400$ cm or 84 metres

37. **D**

Total distance = 108+112 = 220m

Total time = 6 seconds

Now we know that :

Relative speed = Distance / Time

so we get :

$$220/6 = v_1 + v_2$$

$$110/3 = 125/9 + v$$

$$\text{we get } v = \frac{205}{9} \text{ m/s} = \frac{205}{9} \times \frac{18}{5} = 82 \text{ km/hr}$$

38. **B**

We have R

When multiplied by 8 we get 8R

Now taking square we get $64R^2$

Dividing by 4 we get $16R^2$

Taking square root we get 4R

39. **D**

Let length be 3x, breadth be 2x, and height be x

Now we know that the area of four walls = $2h(l+b) = 2x(5x) = 10x^2$

Now new length = 6x, new height = 0.5x and new breadth = x

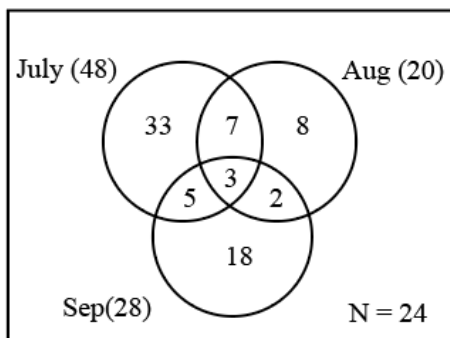
So the area of four walls will now be: $2(0.5x)(7x) = 7x^2$

Now therefore percentage change in area : $\frac{7x^2 - 10x^2}{10x^2} \times 100 = -30\%$

Hence, the area decreases by 30%.

40. **B**

Exactly two consecutive months include both July-August and August-September. We cannot include July-September, as these months are not consecutive.



N - none of the three months

Number of people who read in July and August only = 7

Number of people who read in August and September only = 2

Therefore, the number of surveyed people who have read exactly for two consecutive months = 7+2 = 9

Answer is option B.



Reasoning

41. **A**

Let A, B, C, D have a, b, c, d chocolates respectively initially.

D gets thrice as many as he already has from A which makes a total of 4d chocolates with D.

He gives one-eighth of that to B which leaves D with $3.5d$ Chocolates.

Now $3.5d = 35 \Rightarrow d = 10$

Now, A has given $b, 2c, 3d$ chocolates to B, C, D respectively at first which left him with $(a-b-2c-3d)$ chocolates.

Then he gave 10% of the remaining chocolates to C and 20% to B.

He finally has $0.7(a-b-2c-3d)$ chocolates.

$$0.7(a-b-2c-3d) = 35$$

$$\Rightarrow (a-b-2c-3d) = 50 = k \text{ (say)}$$

C got $2c$ chocolates at first and then again 10% of 'k' from A.

$$C \text{ finally has } 3c + 0.1k = 35$$

$$\Rightarrow c = 10$$

B got b chocolates at first and then again 20% of 'k' from A and $0.5d$ from D.

$$B \text{ finally has } 2b + 0.5d + 0.2k = 35$$

$$\Rightarrow b = 10$$

$$\text{For A, } 0.7(a-b-2c-3d) = 35$$

$$\Rightarrow a = 110$$

42. **A**

$$102+9+90 = 201$$

$$203+70+7 = 280$$

43. **C**

In the 3 given terms, the 1st letters have 1 letter between them $\rightarrow TUV, VWX$

the 2nd letters have 2 letters between them $\rightarrow BCDE, EFGH$

Similarly, the 3rd letters have 3 letters between them and the 4th letters have 4 letters between them.

So, the next term of the series will be ZKXS.

44. **A**

Let us name the statements-

S1: I got the top score.

S2: Ricky was second.

B1: I got the top score.

B2: Sachin was second.

R1: I got the top score.

R2: Sachin was third.

Case 1:

Let S1 be true. That means B1 and R1 are false because only one of them can be 1st.

If S1 is true, S2 has to be false; meaning Ricky was 3rd.

So, the order we get as of now is Sachin, Brian, Ricky.

R2 says Sachin was 3rd but both R1 and R2 cannot be false. So, this case is rejected.

Case 2:

Let R1 be true. Then R2 is false meaning Sachin was second. So the order we get as of now is Ricky, Sachin, Brian.

If R1 is true, S1 and B1 are false. If S1 is false, S2 has to be true. But Ricky cannot be second.

So, this case is also rejected.

Case 3:

Let B1 be true. Then B2 is false meaning Sachin was third. So the order we get as of now is **Brian, Ricky, Sachin**.

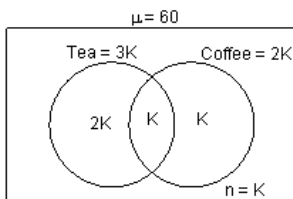
Both R1 and S1 are false as B1 is true. R2 and S2 are true and support the order we got.

45. **B**

Let number of people who prefer tea = $3k$

those who prefer = $2k$

those who like both = k



$$5k = 60$$

$$\Rightarrow k = 12$$



46. **A**

The clock strikes thrice at 3.

There are two intervals between 3 strikes. For nine strikes there will be 8 intervals.

2 intervals take 6 seconds. \Rightarrow 8 intervals will take 24 seconds.

47. **C**

E3 cannot start last as his name has number 3 and E1 cannot finish 1st as his name has number 1. So the one starting last and finishing 1st will be E2. Then E3 will start 1st as E1 cannot.

48. **A**

E3 cannot start last as his name has number 3 and E1 cannot finish 1st

as his name has number 1. So the one starting last and finishing 1st

will be E2. Then E3 will start 1st as E1 cannot. E3 cannot finish 3rd, so E1 will.

49. **B**

From the given statements, let us rank students from brightest to dullest from left to right. Let the Doon school student be K.

From the first condition, we get K, A, Q, R in order.

From the second condition, we get P, K, C, A, Q, R.

So P is the brightest.

50. **C**

From the given statements, let us rank students from brightest to dullest from left to right. Let the Doon school student be K.

From the first condition, we get K, A, Q, R in order.

From the second condition, we get P, K, C, A, Q, R.

So R is the dullest.

51.D

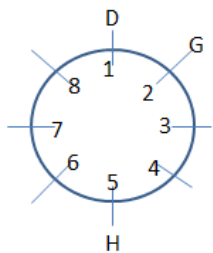
Using the given conditions, we get 2 possibilities:

Timeline 

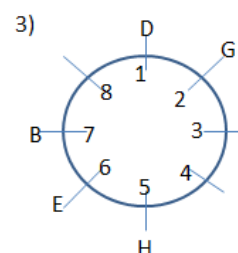
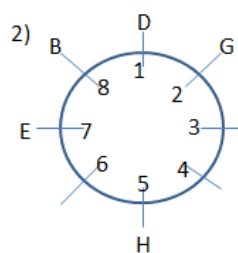
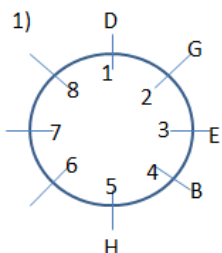


52.A

Using statement 1...

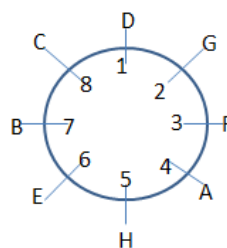


Based on statement 2, there are 3 possibilities:



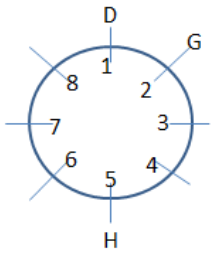
On reading statement 3, cases 1) and 2) get rejected because we cannot put A opp. to F.

Using all 3 statements, we finally get:

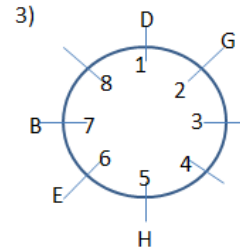
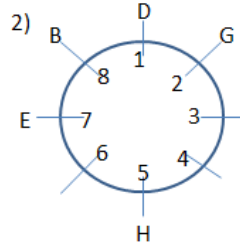
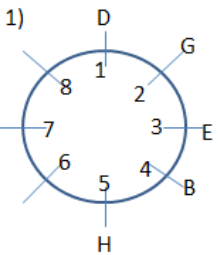


53.C

Using statement 1...

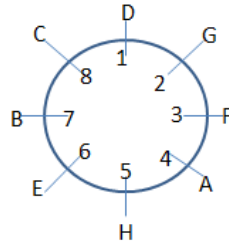


Based on statement 2, there are 3 possibilities:



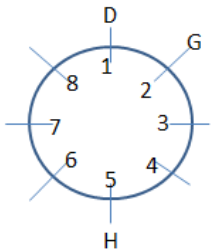
On reading statement 3, cases 1) and 2) get rejected because we cannot put A opp. to F.

Using all 3 statements, we finally get:

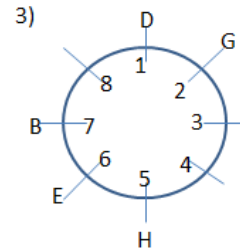
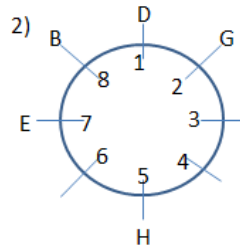
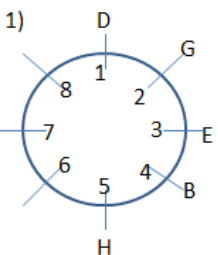


54. B

Using statement 1...

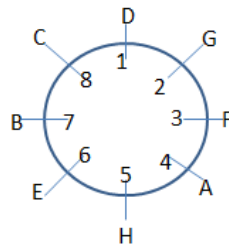


Based on statement 2, there are 3 possibilities:



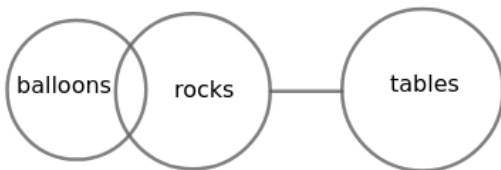
On reading statement 3, cases 1) and 2) get rejected because we cannot put A opp. to F.

Using all 3 statements, we finally get:

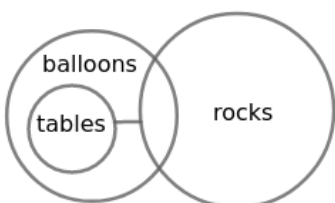


55. D

The basic diagram for the given statements is



I. Some tables are not balloons

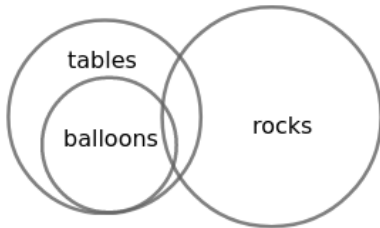


From the above possibility diagram, all tables are balloons. Hence Option A is incorrect.

II. Some tables are balloons

From the basic diagram, no table is balloon. Hence Option B is incorrect.

III. Some balloons are not tables



From the above possibility diagram, all balloons are tables. Hence Option C is incorrect.

∴ None of the above follow the given statements.

Hence, the correct answer is Option D



56. B

It is said that A and E have 3 people between them and there are 5 positions, so they both are at the ends.

A _ _ _ E

OR

E _ _ _ A

It is also said that C is not sitting next to either A or E. This means that C can occupy the middle position only.

57. A

It is said that A and E have 3 people between them and there are 5 positions, so they both are at the ends.

A _ _ _ E

OR

E _ _ _ A

It is also said that C is not sitting next to either A or E. This means that C can occupy the middle position only.

58. C

Commission of A in 1994 = Rs.24600

Commission of B in 1994 = Rs.29800

B's commission is more than A's by:

$$((29800-24600)/24600) \times 100 \approx 21\%$$

59. B

On adding up the total earnings of the 5 salesmen in 1993, we get the total amt. = Rs.146960

B's earning in 1993 = Rs. 28000

% of total earning that B earned = $(28000/146960) \times 100 \approx 20\%$

60. **B**

In every column of the given table, the value in Row 2 is '2 subtracted from the sq. of the corresponding value of Row 1'. So, corresponding to '8' in the 1st row, $(8^2 - 2) = 62$ will be the value in row 2.



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61. **D**

"Vol.5 was directly to the right of vol. 2" using this statement, we can eliminate options A, B and C.

Option D satisfies all of the given statements.

62. **C**

Option A & B imply that Marx is not German and is an idealist philosopher which is not the correct implication.

From option D we can infer that there can be other German philosophers who are not idealists like Marx. This is the same implication as stated in the question.

Option C implies the same as given in the question.

63. **B**

Assume that the initial length of both the candle was L and Vipul studied for X hours.

In X hours, total thick candle burnt = $XL/6$

In X hours, total thin candle burnt = $XL/4$

After X hours, total thick candle remaining = $L - XL/6$

After X hours, total thin candle remaining = $L - XL/4$

Also, it is given that the thick candle was twice as long as the thin one when he finally went to sleep.

$$(L - XL/6) = 2(L - XL/4)$$

$$(6 - X)/6 = (4 - X)/2$$

$$(6 - X) = 3(4 - X)$$

$$6 - X = 12 - 3X$$

$$2X = 6$$

$$X = 3$$

64. **C**

Let the numerator be $2x$ and the denominator be $3x$. On subtracting 6 from the numerator, we get the equation as:

$$\frac{2x - 6}{3x} = \frac{4}{9}$$

On solving this, we get $x = 9$ and the numerator as 18.

65. **B**

Expressing the money he wanted to withdraw in terms of paise: $100x + y$

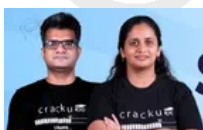
Expressing the amount the cashier gave him: $100y + x$

After spending 20 paise from the withdrawn money, he finds he still has double the amt, he actually wished to withdraw.

$$\text{So the eqn is: } (100y + x) - 20 = 2(100x + y)$$

$$\Rightarrow 98y - 199x = 20 \quad \dots(1)$$

Only option B satisfies eqn 1 among the given options.



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66. **D**

For this, we have to consider the worst possible case.

Suppose we get a black piece in the 1st pick and then a brown one in the 2nd pick.

In the 3rd pick, we will either get a black one or a brown one and when it will be placed with the previous two pieces, we will definitely get a pair of socks of the same colour.

67. **B**

If 750 are skilled in Java, 250 are skilled only in DotNet. Of the 450 who are skilled in DotNet, we just found out that 250 are skilled only in DotNet, meaning that rest 200 out of the 450 are skilled in both.

68. **B**

Bad athletes do not have well-balanced diets. It doesn't mean they don't want to win. A can be ruled out.

good athletes have a well-balanced diet. It doesn't imply all those who eat a well-balanced diet are good.. C can be ruled out.

D hasn't been mentioned.

69. **B**

In the 3rd row, the second element i.e. 4 comes as the product of the 2's in the row above. Similarly, second element of the 4th row i.e. 8 comes as the product of the 2 and the 4 above it.

Using this pattern, the 3 '?' will be 8, 1024 and 32.

70. **D**

Solving the eqn:

$$\frac{17x}{1-x} = 17$$

we get $x = (1/2)$

So $2 \times (1/2) \times (1/2) = 1/2$



General Awareness

General English

111. **B**

From the last paragraph, we can observe that literary criticism is changing as women are taking part in it and bringing their perspectives to it.

Thus, the answer is option B.

112. **D**

The author quotes James Joyce, Virginia Woolf, and D.H. Lawrence primarily to illustrate that modernist writers viewed women's emancipation as a significant and revolutionary theme, not to label them as feminist writers, suggest they were ineffectual, or imply a lack of interest in women's literature before the twentieth century. Thus, the best answer is **d) None of the above**, as none of the other options accurately reflect the purpose of the quotations in the passage.

113. **D**

The author is not speaking against the women's reformation of literary canons. In fact, in the last line of the passage, the author uses the pronoun "we" while talking about the reformation, thus including themselves.

Thus, the author is in favour of the reformation and supports it.

Hence, the answer is option D.

114. **C**

The author talks about how literary writings and criticism have changed after the emancipation of women.

Thus, among the options, C [Transforming Literature] is the best choice for the title of the passage.

115. **D**

Options A and B are rejected as they use the wrong article.

Option C makes the first part a reason that does not fit the sentence.

Option D is the correct answer, as it uses the appropriate indefinite article 'an' to describe the profession 'anthropologist.'



116. **B**

Option B is the correct answer.

An apostrophe is used to indicate possession.

Eg: John's book

117. **D**

A declarative or imperative sentence is always ended with a "full stop" aka "period".

The answer is option D.

118. **C**

When a sub-ordinate clause comes before the main clause, they are both separated by a "comma".

Hence, the answer is option C.

119. **B**

A semicolon is used to separate two independent clauses (complete sentences) that are closely related in meaning but not joined by a coordinating conjunction (e.g., "and," "but," "or").

Hence, the answer is option B.

120. **D**

The correct proverb is "Let the sleeping dogs lie" which means "to ignore a problem because trying to deal with it could cause an even more difficult situation"

The answer is option D.



121. **B**

The correct proverb is "A fool and his money are parted easily" which means "a foolish person spends money carelessly and will soon be penniless."

Hence, the answer is option B.

122. **C**

The meaning of the idiom "You are the bomb!" is "You are awesome!".

Among the options, only C comes close to the meaning.

Hence, the answer is option C.

123. **B**

"Flighty" means "fickle and irresponsible."

Among the options, only option B has the same meaning.

The answer is option B.

124. **B**

The phrase "take down the enemy" means to "defeat/kill the enemy".

Hence, the answer is option B.

125. **C**

The phrase "dime a dozen" means "So plentiful as to be valueless or something very common"

Hence, the answer is option C.



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126. **B**

"Throw the baby out with the bath water" means "to lose something valuable while trying to get rid of something unwanted."

Among the options, B is the answer.

127. **D**

The idiom "bark up the wrong tree" means to pursue a mistaken or misguided course of action, often by making the wrong assumption or blaming the wrong person. This is captured in Option D.

128. **B**

"ride" is the verb used to describe the action of driving a bicycle.

Since the sentence is talking about the past, "rode" is the appropriate form.

Hence, the answer is option B.

129. **D**

Insulation is used to avoid heat loss.

Only "prevent" establishes the required relation between insulation and heat loss.

The answer is option D.

130. **B**

A rate can be described as "high" or "low".

Thus, option B is the best choice among the options.



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131. **B**

"Sales" refers to the activities related to selling or the number of goods sold.

"Sails" refers to a tensile structure on a boat used to propel the boat using the wind.

"Saile" is a misspelt word.

"sells" is the activity of giving a product to a person in exchange for money.

Among the options, "Sails" is the obvious choice.

Hence, the answer is option B.

132. **B**

"faster" means "quicker."

"further" means "additional"

"farther" means "at a distance."

"furthur" is a misspelt word.

Only "Further" makes the sentence coherent.

The answer is option B.

133. **B**

A baby deer is called a "fawn".

Hence, the answer is option B.

134. **B**

The second blank has to be related to "altering the life" discussed before.

Among the options, only B makes logical sense.

The answer is option B.

135. **A**

The only option that makes the sentence coherent is Option A. This would give the sentence : "When it comes to staying young, a mind-lift beats a face-lift any day."



136. **A**

The only option that makes sense here is "empty".

Thus, the sentence becomes: "None are so empty as those who are full of themselves," meaning that people who think too highly of themselves don't have space for good qualities like kindness or real friendships.

Therefore, Option A is the correct answer.

137. **D**

Among the options, the best choice for the answer is "learning".

The answer is option D.

138. **B**

"Eulogize" means to "praise highly in speech or writing."

"Criticize" means to "indicate faults of a person". Thus, it is the opposite in the meaning of the given word.

Extol means to praise enthusiastically, which would be a synonym.

Emulate means to copy something, and Amulet is an object (thought to be imbued with mystical powers).

Hence, the answer is option B.

139. **C**

"Pedantic" refers to a person who is "excessively concerned with minor details or rules".

Among the options, only "Finicky" is synonymous with the given word.

Hence, the answer is option C.

140. **D**

"Pyro" means "fire" and "Phobia" means "fear".

Thus, the word "Pyrophobia" refers to "the fear of fire".

Option D is the answer.



141. **A**

"Masculine" is a word used to refer to males and the word "male" is contained in the given word.

Hence, the answer is option A.

142. **B**

"Respite" means a short period of rest, and the word "rest" is contained in the word "Respite".

Hence, the answer is option B.

143. **B**

"Paperweight" is an object used to keep loose papers in place.

"Weightlifter" is a person who lifts weights as an exercise or for competitions.

Hence, the answer is option B.

144. **C**

Outshine, Outnumber and Outrun are all valid words.

"bug" cannot be used with "out".

Hence, the answer is option C.

145. **B**

A "Newsletter" is a "printed or electronic report containing news concerning the activities of a business or an organization that is sent to its members, customers, employees or other subscribers."

A "News Stand" refers to a stall or a stand used to sell newspapers.

A "Newspaper" is a publication containing information about current events.

The word "News" cannot be used with "Week".

Hence, the answer is option B.



146. **C**

The preposition used to specify a particular place, such as the office party, is "at." Therefore, the answer is option C.

The other options are incorrect in this context.

147. **A**

As cool as a cucumber is a simile which means to remain calm, composed, and unruffled, especially in a stressful or challenging situation.

Therefore, Option A is the correct answer.

148. **A**

The correct phrase is "As fresh as a daisy".

Hence, the answer is option A.

149. **D**

All the words "Consort", "Spouse" and "Partner" refer to a husband or a wife in a marriage.

"Clear" is the odd one out among the options.

Hence, the answer is option D.

150. **B**

"Nerd" means an "uninteresting person".

The answer is option B.

