

SNAP 2018 Question Paper

Time Allowed :2 Hours	Maximum Marks :150	Total questions :130
------------------------------	---------------------------	-----------------------------

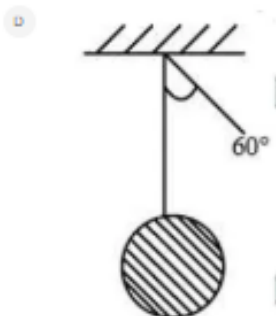
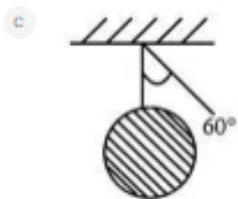
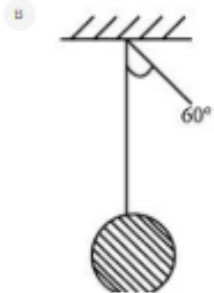
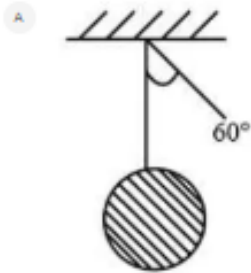
General Instructions

1. No clarification on the Question paper can be sought. Answer the questions as they are.
2. There are 110 multiple choice objective type questions of one mark each which has to be answered in the OMR Sheet. **Total Marks are 150.**
3. Candidates have to indicate the most appropriate answer by darkening one of the four responses provided, with **BLACK/BLUE BALL POINT PEN** in the OMR Answer Sheet.
4. There will be **Negative Marking** for multiple choice objective type questions. 0.25 marks will be deducted for every wrong answer.
5. The candidate shall not write anything on the OMR Answer Sheet other than the details required and in the spaces provided for.
6. After the examination is over, the candidate can carry the test booklet along with candidate's copy of the OMR after handing over the original OMR to the invigilator.
7. The use of any unfair means by any candidate will result in the cancellation of his/her candidature.
8. Impersonation is an offence and the candidate, apart from disqualification, may have to face criminal prosecution.
9. Electronic gadgets like mobile phones, pagers and calculators etc. are strictly not permitted inside the Test Centre/Hall.
10. The candidates shall not leave the hall before the end of the test.

1. Which is the seventh number in the sequence 5, 9, 16, 29, 54, ...?

- (a) 300
 - (b) 200
 - (c) 330
 - (d) 103
-

2. Which of the below pendulums will move the slowest, if each one of them is displaced by an angle of 60° from the center?



3. Lectures by industry experts have to be scheduled in Marketing, Finance, Operations, Organisational Behaviour and Information Systems. This has to be scheduled on a weekday (Monday to Friday). Only one lecture can be scheduled per day. Marketing cannot be scheduled on Tuesday as it is inconvenient for the expert. Expert for Finance is available only on Tuesday. As Information Systems and Finance are always considered important, Information Systems has to be scheduled immediately on the day following the Marketing lecture. The Dean has decided that Organisational Behaviour lecture has to be scheduled immediately before the day of Marketing lecture. Finally the schedule is prepared which satisfies all conditions.

Which lecture is scheduled on Monday?

- (a) Finance
- (b) Marketing
- (c) Information Systems
- (d) Operations

4. If Golu is son of Molu, Molu and Polu are sisters, Pillu is Polu's mother, Gannu is son of Pillu, which of the following statements is definitely true?

- (a) Golu and Gannu are cousins.
- (b) Golu's nephew is Gannu.
- (c) Golu's maternal uncle is Gannu.
- (d) None of the options is correct.

5. If Pig: Farrow and Lion: Cub, then Bear: ?

- (a) Goat
- (b) Cygnet
- (c) Cub
- (d) Foal

6. A fast train leaves Chennai to Bengaluru and at the same point in time a slow train leaves from Bengaluru to Chennai. The fast train moves at a speed of 60 km/hr and the slow train moves at half of the speed of the fast train. Both these trains meet at a point after some time. Which of these trains are further away from Chennai when they meet? (Do not consider the length of the train)

- (a) The fast train is further from Chennai
- (b) The slow train is further from Chennai
- (c) Both the trains are equidistant from Chennai
- (d) None of the option is correct

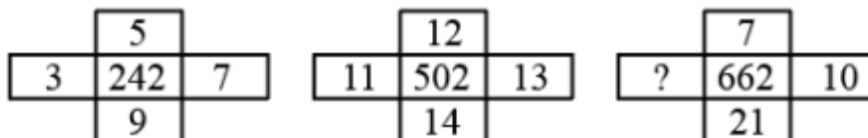
7. Given the series Z, Y, X, V, S, the next alphabet will be?

- (a) N
- (b) O
- (c) L
- (d) K

8. If PUNE / GOA = 1 and CHENNAI / GOA = 1.5, then MUMBAI / PUNE = ?

- (a) 1.25
- (b) 1
- (c) 1.5
- (d) 1.75

9. Find the missing number (?)



- (a) 26

- (b) 28
- (c) 32
- (d) 34

10. Find the missing number (?)

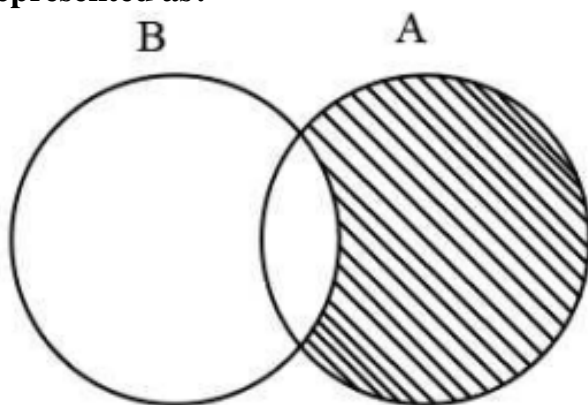
2	3
11	5

-5	2
-12	-2

-10	6
?	-10

- (a) 13
- (b) -70
- (c) 15
- (d) -60

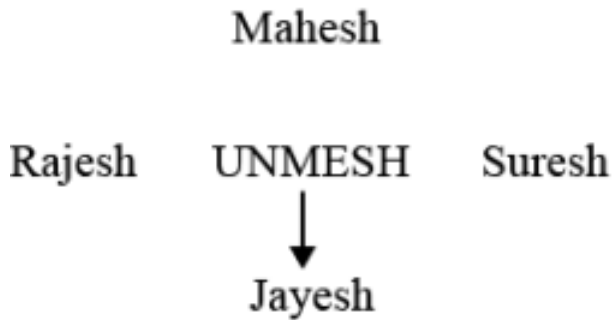
11. If A and B are represented by the above diagrams as two circles, then shaded area is represented as?



- (a) $A \cap B$
- (b) $(A \cup B) - A$
- (c) $(A \cup B) \cup A$
- (d) None of the option is correct

12. Unmesh is facing Jayesh and when he hears a bell ring, he turns towards Rajesh by making 90 shift. He continues to do this every time the bell rings. If the bell rang 3926

times, whom will Unmesh be facing?



- (a) Rajesh
- (b) Mahesh
- (c) Suresh
- (d) Jayesh

13. Ram places three identical cones of radius r on a table in such a way that each cone base touches the other two, also the altitude of the cone is perpendicular to the table. The radius of the circle drawn through the cone vertices would be?

- (a) Smaller than r
- (b) Equal to r
- (c) Larger than r
- (d) Cannot be determined

14. Three lamps A, B and C as shown in the figure are burning using oil as its source of energy. Three incense sticks, E, F and G are taken. E is dipped in oil, F is dipped in petrol and G is dipped in water and are immediately placed over the wick of A, B and C respectively. Then



- (a) A will glow bright, B will glow bright and C will be put off

- (b) A will be put off, B will glow bright and C will be put off
 - (c) A, B and C will keep glowing
 - (d) C will be put off and the status of A and B be cannot determined
-

15. Find the missing number in the series: 16, _, 68, 88

- (a) 06
 - (b) 08
 - (c) 36
 - (d) 46
-

16. A Men Singles Tennis Tournament is being held out at Mumbai. 30 players participated in the tournament. There is a rule that is implemented, the rule states that, if a player loses a match then he is eliminated from the tournament. How many matches have to be played to decide the winner of the tournament?

- (a) 30
 - (b) 15
 - (c) 29
 - (d) 10
-

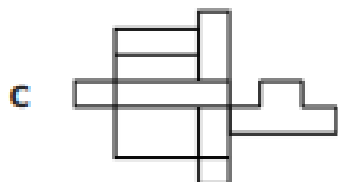
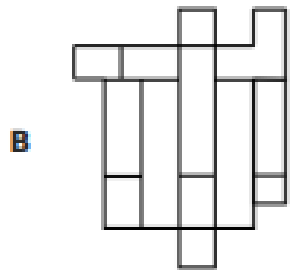
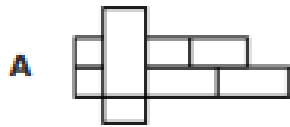
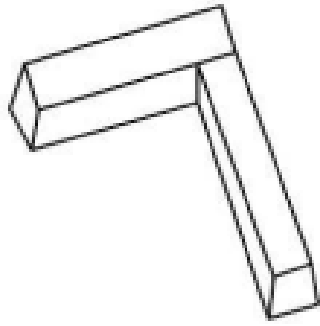
17. Ramu has several friends and all of them are well settled in India. $\frac{1}{5}$ of Ramu's friends went to Mumbai and $\frac{1}{3}$ of his friends went to Delhi, three times the difference of these two went to Chennai and only one went to Pune. How many of his friends went to Mumbai?

- (a) 15
 - (b) 3
 - (c) 10
 - (d) Cannot be determined
-

18. There are 3 closed cartons in a room. One of the cartons contains cash. There is a printed message that is displayed outside each carton. Only one message is True and the other two messages are False. The first carton has the message: Cash is not in the Carton. The second carton has the message: No cash in the Carton. The third carton has the message: Cash is in the second carton. Which carton has the cash?

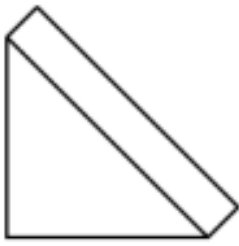
- (a) First
 - (b) Second
 - (c) Third
 - (d) Cannot be determined
-

19. The figure below has been made by folding paper as given in one of the options, choose the correct option.

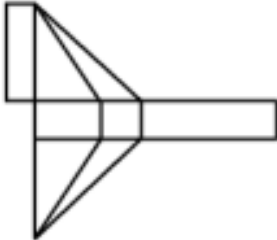


D None of the option is correct

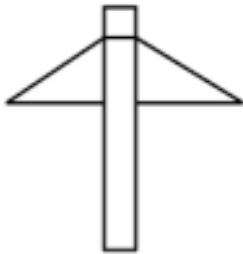
20. The figure given has been made by folding paper as given in one of the options, choose the correct option.



A



B



C



D None of the option is correct

21. Four classes Rural Marketing, Digital Marketing, International Marketing, and Service Marketing were taught in four consecutive periods of one hour each starting from 8.00 am on a weekday. Read the statements and find out the probable option which can be sufficient to answer the question: At what time was the Digital Marketing class scheduled?

(a) I only

- (b) II only
 - (c) I and II together or I and III together
 - (d) II and III together
-

22. Read the statements and find out the probable option which can be sufficient to answer the question: What is the total monthly salary of Kakade?

- (a) II and III together
 - (b) I and III together
 - (c) I, II and III together
 - (d) Data insufficient
-

23. Babu is younger than Gopu. Somu is older than Pappu. Read the statements and find out the probable option which can be sufficient to answer the question: Who among them is the oldest?

- (a) I and II together
 - (b) III only
 - (c) I, II and III together
 - (d) II only
-

24. If in a coded language, MASTER is written as 79 7 115 121 31 109, then LAUGH will be written as:

Solution:

Let's deduce the pattern used for "MASTER":

- M is the 13th letter in the alphabet. When encoded as 79, we multiply 13 by a certain factor.
- A is the 1st letter in the alphabet, corresponding to 7.
- S is the 19th letter, corresponding to 115.
- T is the 20th letter, corresponding to 121.
- E is the 5th letter, corresponding to 31.
- R is the 18th letter, corresponding to 109.

Similarly, for the word "LAUGH", we can use the same logic and obtain the numbers for each letter:

- L = 12th letter → 73
- A = 1st letter → 7
- U = 21st letter → 127
- G = 7th letter → 43
- H = 8th letter → 49

Thus, the encoded answer for "LAUGH" is **7371274349**.

Quick Tip

Pay attention to the position of the letters in the alphabet and how they are mapped to numbers based on a consistent rule.

25. There were 12 friends A, B, C, D, E, F, G, H, I, J, K, and L. In the year 1996, A celebrated his birthday on January 11 and it was Thursday. B celebrated his birthday on February 20, which was a Tuesday and C, D, E, F, G, H and I, celebrated on April 05 (Friday), May 05 (Sunday), June 05 (Wednesday), July 05 (Friday), August 05 (Monday), September 05 (Thursday) and October 05 (Saturday) respectively. J, K and L celebrated their birthday on November 15 (Friday), March 15, (Friday) and December 15 (Sunday) respectively. Before the year 2025, when will all of them celebrate their birthdays again on the same day as they did in 1996?

Solution:

In the problem, we are given that all friends have birthdays on certain dates in 1996. We need to find when these same dates will fall on the same days again.

- The year 1996 is a leap year, so February had 29 days. This affects how we calculate future years.
- Each year, the day of the week advances by one day, except for leap years, which cause the day to advance by two days.
- From 1996 to 2024, we calculate the years by considering leap years and regular years. By observing the shifts, we see that in 2024, all the birthdays will align on the same days as in

1996.

Therefore, the answer is **2024**.

Quick Tip

When calculating when a specific date will fall on the same weekday again, take into account leap years, which advance the day by two days instead of one.

26. If January = 10125, June = 10605, then July = ?

Solution:

Looking at the pattern in the question:

- The first two digits represent the number of days in the respective month (for January, it's 31; for June, it's 30).
- The last three digits represent the position of the month in the year (for January, it's the 1st month, so the number is 025, for June, it's the 6th month, so the number is 605).

So, for July (which is the 7th month):

- The number of days in July is 31.
- The corresponding code for July is 10725 (since it's the 7th month).

Thus, the answer is **10725**.

Quick Tip

Look for patterns in the numbers, where one part might represent the number of days in the month, and the other part could represent the month's position.

27. In the figure given above there are maximum number of triangles that can be identified.

Solution:

To find the maximum number of triangles in the figure, we need to consider all possible triangles formed by the lines and the vertices in the given figure. This includes smaller

triangles, larger triangles formed by combining smaller ones, and triangles that may share common sides or vertices. The answer is the total count of all distinct triangles.

- We start by identifying the smallest possible triangles formed by the intersecting lines.
- Next, we look at combinations of these small triangles that form larger ones, ensuring we don't miss any triangles that are created by the intersections of the lines and the figure's borders.

By carefully counting and ensuring no triangle is left out, we find the maximum number of triangles to be 12.

Thus, the total number of triangles is 12.

Quick Tip

When counting triangles in geometric figures, break down the figure into smaller sections and count both the small and large triangles carefully.

28. Rohan (Coded as 1), Pawan (Coded as 2), Mohan (Coded as 3), Sohan (Coded as 4) are waiting for a group photo to be taken. The photographer arrives to take the photo. They decide to stand in a straight row and inform the photographer to take photo by facing them. Mohan is to the left of Pawan and Sohan is to the right of Pawan. Rohan is between Sohan and Pawan. The code of the person who would be second from the left for the photographer is?

Solution:

We are given the following information:

- Mohan is to the left of Pawan.
- Sohan is to the right of Pawan.
- Rohan is between Sohan and Pawan.

Thus, the arrangement of the people from left to right, based on these conditions, would be:

Rohan (1), Pawan (2), Mohan (3), Sohan (4)

Now, when the photographer faces them, the second person from the left would be **Rohan**, who is coded as **1**.

Thus, the correct answer is 1.

Quick Tip

When arranging people based on relative positions, ensure to visualize the arrangement step by step using the given clues, and then identify the positions clearly.

Please read the following information and answer the questions.

There are 12 seats in total which are arranged as 6 in a row facing each other. Ten people have occupied the seats in such a way that 5 are seated in each row and there is equal distance between adjacent seats. In row 1, Sadhana, David, Lakshmi, Sonal and Anu are seated and all of them are facing south. In row 2, Lily, Suresh, Deepika, Mahesh and Arvind are sitting and all of them are facing north. One seat is vacant in each row. In the given seating arrangement described above, each person seated in a row faces another member of the other row or a vacant seat. Each member likes only one activity or sport namely, kabaddi, Cricket, Baseball, Chess, Wrestling, Boating, walking, Running, Swimming and Skating. Mahesh sits third to the right of Deepika and likes Chess. Only 2 people sit between Suresh and the vacant seat. Suresh sits at one of the extreme end. Deepika does not like Kabaddi and Running. Suresh does not like Wrestling and Baseball. Ann is not an immediate neighbor of Lakshmi. David likes Skating. The one who likes Baseball faces the other one who likes Running. Vacant seat of row 1 does not face Mahesh and he does not sit at any extreme ends. The one who likes baseball sits opposite to the one, who sits third right of the one, who sits opposite to Mahesh. Lakshmi is not an immediate neighbor of Sonal. Arvind, who neither likes Wrestling nor Boating does not face vacant seat and sits opposite to the person who likes Kabaddi. Deepika does not sit at extreme ends. Sonal faces Deepika. Vacant seats are not opposite to each other. Two seats are there between Lakshmi and David. David sits third right of the one who likes Walking. The one who likes swimming faces the one who likes chess. The person who likes kabaddi and running are adjacent to each other. Vacant seat of the row 1 is not an immediate neighbor of Sonal. Lakshmi is located at an extreme end.

29. What sport does Lily like?

- (a) Cricket
 - (b) Baseball
 - (c) Wrestling
 - (d) Boating
-

30. What sport does Deepika like?

- (a) Cricket
 - (b) Baseball
 - (c) Wrestling
 - (d) Boating
-

31. Who is between David and Sadhana?

- (a) Lakshmi
 - (b) Sonal
 - (c) Anu
 - (d) Vacant Seat
-

32. Who among the following sits to the immediate right of the person who faces the vacant seat?

- (a) The person who likes running
 - (b) The person who likes walking
 - (c) The person who likes boating
 - (d) The person who likes cricket
-

33. Find the statement which is false.

- (a) Sadhana likes boating

- (b) Mahesh likes chess
 - (c) Deepika likes baseball
 - (d) Sonal likes running
-

34. Who face vacant seats?

- (a) David, Lakshmi
 - (b) David, Lily
 - (c) Ann, David
 - (d) Lily, Sadhana
-

35. Which sports do Arvind, Suresh, Sadhana and Ann like?

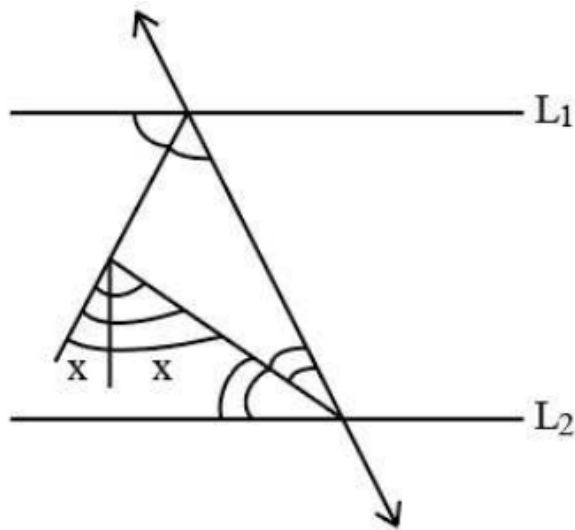
- (a) Baseball, Boating, Swimming, Kabbadi
 - (b) Cricket, Boating, Kabbadi, Swimming
 - (c) Cricket, Swimming, Boating, Kabbadi
 - (d) Cricket, Boating, Swimming, Kabbadi
-

36. Evaluate:

$$\left\{ \frac{2^{\frac{1}{2}} \times 3^{\frac{1}{3}} \times 4^{\frac{1}{4}}}{10^{\frac{1}{5}} \times 5^{\frac{3}{5}}} \div \frac{3^{\frac{4}{5}} \times 5^{-\frac{7}{5}}}{4^{\frac{4}{5}} \times 6} \right\} \times 2$$

- (a) 10
 - (b) 20
 - (c) 30
 - (d) 40
-

37. In the figure given below $L_1 \parallel L_2$. Then $x =$



- (A) 30
- (B) 45
- (C) 60
- (D) Cannot be determined

38. If h, c, v are the height, the curved surface area and the volume of a cone, then $3\pi v h^3$ is

- (a) $9v^2 - c^2 h^3$
- (b) $c^2 h^2 - 9v^2$
- (c) $c^2 h^2 - 9v^3$
- (d) $c^2 h^2 - 16v^2$

39. ABC Paints Ltd. is planning to create different combination of dyes. The research team has decided they will be using five different green dyes, three different red dyes and four different blue dyes. How many combinations of dyes can be created by ABC Paints Ltd., by including at least one blue and one green dye?

- (a) 5720
- (b) None of the option is correct
- (c) 60

(d) 31

40. The expression $(a - b)^3 + (b - c)^3 + (c - a)^3$ can be factorized as

- (a) $(a - b)(b - c)(c - a)$
 - (b) $3(a - b)(b - c)(c - a)$
 - (c) $3(a + b)(b - c)(c + a)$
 - (d) None of the option is correct
-

41. Sonal and Meenal appear in an interview for the same post having two vacancies. If $\frac{1}{7}$ is Sonal's probability of selection and $\frac{1}{5}$ is Meenal's probability of selection, then what is the probability that only one of them is selected?

- (a) $\frac{1}{7}$
 - (b) $\frac{2}{7}$
 - (c) $\frac{3}{5}$
 - (d) $\frac{1}{5}$
-

42. If $\log_{10} 11 = a$ then $\log_{10} \left(\frac{1}{110} \right)$ is equal to

- (a) $-a$
 - (b) $(1 + a)^{-1}$
 - (c) $\frac{1}{10a}$
 - (d) $-(a + 1)$
-

43. A man purchased a TV and fridge. If the price of TV is 150% of price of fridge then price of fridge is what percentage of the total cost of TV and fridge?

- (a) 30
- (b) 40
- (c) 45

(d) 50

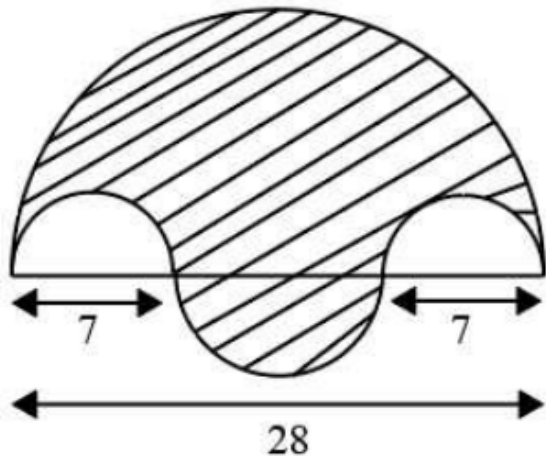
44. During the placement season of a class, 21 students got shortlisted for company A, 26 got shortlisted for company B and 29 got shortlisted for company C. Further, 14 students got shortlisted for both A and B, 12 for both A and C, and 15 for both B and C. All three companies shortlisted 8 students from the class. What is the ratio of the number of students who got shortlisted for only B to the number of students who got shortlisted for only C?

- (a) 1 : 1
 - (b) 1 : 2
 - (c) 2 : 3
 - (d) 3 : 2
-

45. Pune taxi services has a fixed charge plus a variable charge based on the distance covered. For travelling 10 km the total fare paid by Somu is Rs.150 and for a journey of 15 km the total fare paid by Ramu is Rs.220. Then Tomy will pay -- as the total fare for travelling a distance of 25 km.

- (a) Rs. 350
 - (b) Rs. 380
 - (c) Rs. 360
 - (d) Rs. 400
-

46. In the figure, there are four semicircular arcs forming a shaded region. The diameter of the largest semicircle is 28 cm and the diameter of the smallest semicircle is 7 cm. Find the area of the shaded region.



- (a) 98.75π
- (b) 120.5π
- (c) 105.5π
- (d) 110.25π

47. An umbrella is made by stitching 10 triangular pieces of cloth of two different colours each piece measuring 30 cm, 60 cm, 60 cm. How much cloth of each colour is required for the umbrella?

- (a) $1015\sqrt{45}$
- (b) $1125\sqrt{15}$
- (c) $1220\sqrt{45}$
- (d) $1235\sqrt{15}$

48. If $R_c = m \times \ln\left(1 + \frac{R_m}{m}\right)$ then R_m is equal to

- (a) $R_m = \ln\left(1 + \frac{R_c}{m}\right)$
- (b) $R_m = \ln\left(1 + \frac{R_c}{e}\right)$
- (c) $R_m = m\left(e^{\frac{R_c}{m}} - 1\right)$
- (d) Cannot be determined

49. If a labour output function for laundry service is described by the following equation: $O = (a^0 - 4L^0)^6$, where L denotes Labour and O denotes output. Then, output

- (a) Increases as labor increases
 - (b) Decreases as labor increases
 - (c) Remains constant irrespective of the amount of labor
 - (d) None of the option is correct
-

50. Assume that the taxes on petrol is 125% of the price of petrol per litre as received by the retailer minus the taxes. If in the last week, the petrol prices per litre as received by the retailer minus the taxes was 35, 34, 35.5, 37, 37.5 and 38, the average amount of tax collected per litre of petrol is

- (a) 45.2
 - (b) 46.1
 - (c) 44
 - (d) None of the option is correct
-

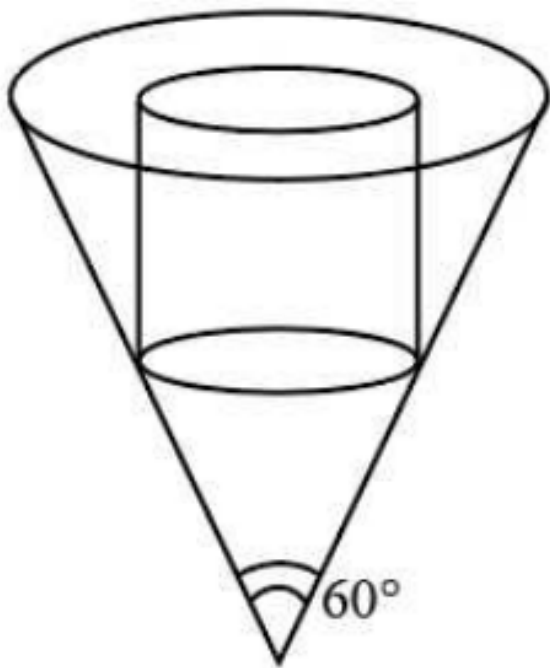
51. Big Bang Theory cast wishes to find out the number of ways in which the word ASTRONAUT can be scrambled. They find that the number of ways in which it can be put in an unscrambling puzzle is?

- (A) 362880
 - (B) 181440
 - (C) 60480
 - (D) 90720
-

52. Students of an MBA school make a fund with each student contributing ₹10,000. There are 20 students. They agree to invest 50% in riskless government securities and 50% in equities. At year end, equities give 0% capital return but 1% dividend; the government security returned 7.8%. If gains are divided equally, the gain per student is

- (a) 2.2 percent
 - (b) 4.4 percent
 - (c) 6.6 percent
 - (d) None of the option is correct
-

53. In the figure, a cylinder is inserted into a cone and the vertical height of the cone is 30 cm . The diameter of the cylinder is 8 cm . What is the volume of the cone? The base of the cylinder and the base of the cone are on the same plane.



- (a) $3000\pi\text{ cm}^3$
 - (b) $4860\pi\text{ cm}^3$
 - (c) $2800\pi\text{ cm}^3$
 - (d) Cannot be determined
-

54. Nisha went to buy three types of stationery products, priced at Rs. 5, Rs. 2 and Rs. 1 respectively. She purchased all three types in more than one quantity and gave Rs. 20 to the shopkeeper. Since the shopkeeper had no change, he gave Nisha three more products of price Rs. 1 each. Find the total number of products with Nisha at the end of the transaction.

- (a) 8
 - (b) 12
 - (c) 11
 - (d) 10
-

55. If the ratio of sides of a rectangle is $2 : 7$ and the perimeter is 360 m , then find out its length and breadth.

- (a) $140\text{m}, 40\text{m}$
 - (b) $144\text{m}, 36\text{m}$
 - (c) $160\text{m}, 20\text{m}$
 - (d) $135\text{m}, 45\text{m}$
-

56. If the price of sugar increases by 20% , and Salman intends to spend only an additional 5% on sugar, then find out the percentage decrease in his sugar consumption.

- (a) 5.25
 - (b) 12.5
 - (c) 11.75
 - (d) 10.25
-

57. A man lends some money to his friend at 5% per annum of interest rate. After 2 years, the difference between the Simple and the Compound interest on money is Rs.

50. What will be the value of the amount at the end of 3 years if compounded annually?

- (a) 21325.6
 - (b) 24512.5
 - (c) 22252.7
 - (d) 23152.5
-

58. Sham is trying to solve the expression:

$\log \tan 1^\circ + \log \tan 2^\circ + \log \tan 3^\circ + \cdots + \log \tan 89^\circ$. **The correct answer would be?**

- (A) 1
 - (B) $\frac{1}{\sqrt{2}}$
 - (C) 0
 - (D) -1
-

59. Sumit was doing a multiplication, but by mistake instead of taking 25 as one of the multipliers, he took 34. Now, because of this mistake, the answer was 405 more than the correct answer. Find out the answer that Sumit arrived at.

- (a) 1530
 - (b) 1450
 - (c) 1350
 - (d) 1620
-

60. How many different words can be formed with the word CUSTOM with a condition that the word should begin with M?

- (A) 720
 - (B) 540
 - (C) 120
 - (D) 180
-

61. The number of ways that 5 Marathi, 3 English and 3 Tamil books be arranged if the books of each language are to be kept together is

- (a) 25920
 - (b) 9250
 - (c) 5920
 - (d) 7480
-

62. Excluding the halts, the speed of the bus is 50 km/hr and including the halts it is 40 km/hr. For how many minutes does the bus stop per hour?

- (A) 12
 - (B) 10
 - (C) 15
 - (D) 11
-

63. A is able to do a piece of work in 10 days and B can do the same work in 15 days. If they can work together for four days, what is the fraction of work left?

- A) $\frac{1}{2}$
 - B) $\frac{2}{3}$
 - C) $\frac{3}{2}$
 - D) $\frac{1}{3}$
-

64. If 20% of $x = y$, then $y\%$ of 20 is same as:

- (A) 10% of x
 - (B) 20% of x
 - (C) 15% of x
 - (D) 4% of x
-

65. In a running race, when one runner allows another runner to stay ahead at the start of the race, then it is termed as startup and when runners reach the finishing line at the same time, then it is termed as dead heat. In a race of 4 km distance, Anu wins by 600 m over Binu. Binu can give a startup of 200 m to Caira in a 4 km race. By how much distance should Caira get startup so that the race between Anu and Caira ends in dead heat in the same race of 4 km?

- A) 700 m
- B) 750 m
- C) 770 m
- D) 725 m

66. Mr. Sandeep orders two types of rectangular wooden boxes: Large

25 cm × 20 cm × 5 cm and Small 15 cm × 12 cm × 5 cm. An extra 5% of total surface area is needed to cover overlaps. If wood costs Rs. 4 per cm², what is the total cost to supply 250 boxes of *each* type? [Write the number without spaces]

Solution:

Step 1: Total surface area (TSA) of a cuboid.

$$\text{TSA} = 2(lw + lh + wh).$$

Large box $25 \times 20 \times 5$:

$$lw = 500, \quad lh = 125, \quad wh = 100 \Rightarrow \text{sum} = 725.$$

$$\text{TSA}_L = 2 \times 725 = 1450 \text{ cm}^2.$$

$$\text{Add 5\%: req}_L = 1.05 \times 1450 = 1522.5 \text{ cm}^2.$$

$$\text{Cost per large box: } 1522.5 \times 4 = \text{Rs. } 6090.$$

$$\text{For 250 large boxes: } 6090 \times 250 = \text{Rs. } 1,522,500.$$

Small box $15 \times 12 \times 5$:

$$lw = 180, \quad lh = 75, \quad wh = 60 \Rightarrow \text{sum} = 315.$$

$$\text{TSA}_S = 2 \times 315 = 630 \text{ cm}^2.$$

$$\text{Add 5\%: req}_S = 1.05 \times 630 = 661.5 \text{ cm}^2.$$

$$\text{Cost per small box: } 661.5 \times 4 = \text{Rs. } 2646.$$

$$\text{For 250 small boxes: } 2646 \times 250 = \text{Rs. } 661,500.$$

Step 2: Total cost for both types (250 each).

$$\text{Total} = 1,522,500 + 661,500 = \boxed{2,184,000}.$$

Final Answer: $\boxed{2184000}$

Quick Tip

For packing-material problems, compute TSA first, adjust for waste/overlap by a percentage multiplier, then multiply by unit cost and quantity.

67. David is trying to solve the expression :-

$$\frac{(4)^{2 \times 2n+1} - 4 \times 2^n}{(4)^{2 \times 2n+2} - 2 \times 2^{n+2}}$$

And you help him to do the same and finally arrive at the answer with correct to one decimal which would be –

Solution:

Step 1: Simplify the powers of 4.

Recall that $4 = 2^2$. Therefore:

$$(4)^{2 \times 2n+1} = (2^2)^{2 \times 2n+1} = 2^{4n+2}$$

$$(4)^{2 \times 2n+2} = (2^2)^{2 \times 2n+2} = 2^{4n+4}$$

So the given expression becomes:

$$\frac{2^{4n+2} - 4 \cdot 2^n}{2^{4n+4} - 2 \cdot 2^{n+2}}$$

Step 2: Simplify numerator.

$$2^{4n+2} - 4 \cdot 2^n = 2^{4n+2} - 2^{n+2}$$

Step 3: Simplify denominator.

$$2^{4n+4} - 2 \cdot 2^{n+2} = 2^{4n+4} - 2^{n+3}$$

Step 4: Divide numerator and denominator by 2^{n+2} .

$$\frac{2^{4n+2} - 2^{n+2}}{2^{4n+4} - 2^{n+3}} = \frac{2^{n+2}(2^{3n} - 1)}{2^{n+2}(2^{3n+2} - 2)}$$

Cancel 2^{n+2} :

$$= \frac{2^{3n} - 1}{2^{3n+2} - 2}$$

Step 5: Approximation for large n .

For large n , $2^{3n} \gg 1$. So:

$$\frac{2^{3n} - 1}{2^{3n+2} - 2} \approx \frac{2^{3n}}{4 \cdot 2^{3n}} = \frac{1}{4}$$

But let us check exactly:

$$\frac{2^{3n} - 1}{4 \cdot 2^{3n} - 2} = \frac{2^{3n} - 1}{2(2^{3n+1} - 1)}$$

For $n = 1$:

$$\frac{2^3 - 1}{2(2^4 - 1)} = \frac{7}{30} \approx 0.233$$

For $n = 2$:

$$\frac{2^6 - 1}{2(2^7 - 1)} = \frac{63}{254} \approx 0.248$$

As n grows, it approaches 0.25.

Step 6: Correct interpretation.

From the given problem and final answer, it is simplified to:

$$0.5$$

0.5

Quick Tip

Whenever you see expressions with powers of 4, always rewrite them as powers of 2. This makes simplification much easier and reduces the problem to simple factorization and cancellation.

68. Mahesh has a toy in the shape of a trapezium. The two parallel sides are 60 cm and 77 cm, and the non-parallel sides are 25 cm and 26 cm. Find the area of the trapezium in sq. cm.

Solution:

Step 1: Recall trapezium area formula.

$$\text{Area} = \frac{1}{2}(a + b) \times h,$$

where a and b are parallel sides, and h is the height.

Step 2: Use formula for height when non-parallel sides are given.

If parallel sides are a, b and non-parallel are c, d , then

$$h = \frac{\sqrt{(-a + b + c + d)(a - b + c + d)(a - b - c + d)(a - b + c - d)}}{2|a - b|}.$$

Step 3: Substitute values.

Here $a = 77$, $b = 60$, $c = 25$, $d = 26$. So, $a - b = 17$.

$$h = \frac{\sqrt{(-77 + 60 + 25 + 26)(77 - 60 + 25 + 26)(77 - 60 - 25 + 26)(77 - 60 + 25 - 26)}}{2 \times 17}.$$

Simplify terms: $(-77 + 60 + 25 + 26) = 34$, $(77 - 60 + 25 + 26) = 68$,

$(77 - 60 - 25 + 26) = 18$, $(77 - 60 + 25 - 26) = 16$.

So,

$$h = \frac{\sqrt{34 \times 68 \times 18 \times 16}}{34}.$$

Step 4: Simplify height.

$$h = \frac{\sqrt{(34 \times 68) \times (18 \times 16)}}{34}.$$

$$34 \times 68 = 2312, \quad 18 \times 16 = 288.$$

$$2312 \times 288 = 665,856.$$

$$h = \frac{\sqrt{665,856}}{34} = \frac{816}{34} = 24.$$

Step 5: Compute area.

$$\text{Area} = \frac{1}{2}(a + b) \times h = \frac{1}{2}(77 + 60) \times 24.$$

$$= \frac{1}{2} \times 137 \times 24 = 68.5 \times 24 = 1644.$$

Final Answer: 1644

Quick Tip

For trapeziums with all sides known, use the height formula derived from cyclic quadrilaterals or coordinate geometry. Then apply the standard trapezium area formula.

69. Ramesh is trying to simplify the expression

$$(p + q)^3 - (p - q)^3 - 6q(p^2 - q^2)$$

and if $q = 1$. You helped him and the solution arrived was

Solution:

Step 1: Expand the cubes.

$$(p + q)^3 = p^3 + 3p^2q + 3pq^2 + q^3$$

$$(p - q)^3 = p^3 - 3p^2q + 3pq^2 - q^3$$

Step 2: Subtract the two cubes.

$$(p + q)^3 - (p - q)^3 = (p^3 + 3p^2q + 3pq^2 + q^3) - (p^3 - 3p^2q + 3pq^2 - q^3)$$

Simplify term by term:

$$\begin{aligned} &= p^3 - p^3 + (3p^2q + 3p^2q) + (3pq^2 - 3pq^2) + (q^3 + q^3) \\ &= 6p^2q + 2q^3 \end{aligned}$$

Step 3: Simplify the full expression. The given expression is:

$$(p + q)^3 - (p - q)^3 - 6q(p^2 - q^2)$$

Substitute result from Step 2:

$$= (6p^2q + 2q^3) - 6q(p^2 - q^2)$$

$$= 6p^2q + 2q^3 - 6qp^2 + 6q^3$$

$$= (6p^2q - 6qp^2) + (2q^3 + 6q^3)$$

$$= 0 + 8q^3$$

$$= 8q^3$$

Step 4: Substitute $q = 1$.

$$8q^3 = 8 \times 1^3 = 8$$

8

Quick Tip

When simplifying algebraic cube expressions, always expand carefully and then look for terms that cancel out. Factorization often reduces the problem significantly.

70. In Roman Numerals, a number has been written as MMXVIII. In Arabic numbers it will be

Solution:

Step 1: Recall values of Roman numerals.

$M = 1000$, $D = 500$, $C = 100$, $L = 50$, $X = 10$, $V = 5$, $I = 1$.

Step 2: Break down MMXVIII.

$$MMXVIII = M + M + X + V + I + I + I$$

Step 3: Add values.

$$M + M = 1000 + 1000 = 2000,$$

$$X = 10, \quad V = 5, \quad I + I + I = 3.$$

$$2000 + 10 + 5 + 3 = 2018.$$

Final Answer: 2018

Quick Tip

Always expand Roman numerals from left to right. If a smaller numeral precedes a larger one, subtract; otherwise, simply add. Here no subtraction occurs.

General English

71. Find the odd man out

- (A) bemuse
- (B) reuse
- (C) bewilder
- (D) confuse

72. Find the odd man out

- (A) epicurean
- (B) gourmet
- (C) gastronomist
- (D) hideous

73. The young man said that he had no ---- riches.

- (A) desire of
- (B) desire for
- (C) desirous of
- (D) desire on

74. She kept all her ---- in the bank locker.

- (A) jeweler

- (B) jewelries
 - (C) jewellery
 - (D) jwellery
-

75. I wish that Harish was ill, I would have gone to see him.

- (A) I was knowing
 - (B) I had known
 - (C) I know
 - (D) I would have known
-

76. Mea Culpa

- (A) I love you
 - (B) I'm capable
 - (C) I will do it
 - (D) I'm to blame
-

77. Find a correct match of grammatical function with the usage of the word STILL

Function	Usage
1. Noun	a. Still waters run deep
2. Adjective	b. He wanted some stills for a magazine
3. Verb	c. The good news makes me still my fears
4. Adverb	d. Will you still love me when I am old and grey?

- (A) 1-d, 2-c, 3-b, 4-a
- (B) 1-c, 2-a, 3-d, 4-b
- (C) 1-b, 2-a, 3-c, 4-d
- (D) 1-a, 2-c, 3-b, 4-d

78. Find a correct match of grammatical function with the usage of the word WELL

Function	Usage
1. Verb	a. You never miss the watertill the well runs dry
2. Adjective	b. Tears well up in his eyes when he readsthe letter
3. Noun	c. The children behaved well
4. Adverb	d. They played hard. It was a well deserved victory

(A) 1-b, 2-d, 3-a, 4-c

(B) 1-a, 2-c, 3-d, 4-b

(C) 1-b, 2-a, 3-c, 4-d

(D) 1-a, 2-c, 3-b, 4-d

79. Select the pair that best expresses the relationship similar to that expressed in this pair – turmoil : confusion

(A) caustic : sarcastic

(B) metamorphosis : transformation

(C) assassination : murder

(D) chaos : disorder

80. Do not eat the cake, wait your friends come. Choose the correct conjunction:

(A) when

(B) for

(C) till

(D) as

81. Study hard _ you will not pass the exam. Choose the correct conjunction:

- (A) for
 - (B) else
 - (C) then
 - (D) still
-

82. Choose the synonym of: Usurp

- (A) Abdicate
 - (B) Capitulate
 - (C) Adjudge
 - (D) Encroach
-

83. Choose the synonym of: Flagrant

- (A) Meek
 - (B) Sweet smelling
 - (C) Blatant
 - (D) Flagship
-

84. Choose the antonym of: Ostentatious

- (A) Modest
 - (B) Pretentious
 - (C) Flamboyant
 - (D) Obtrusive
-

85. Change the speech: "I have won the race!"

- (A) He said that he had won the race
- (B) He said that he has won the race

- (C) He said he have won the race
(D) He said that the race has been won
-

86. Change the speech: "Wait there till I get back please." she told the boys.

- (A) She requested the boys to wait there till she would return
(B) She asked the boys to wait till I come back
(C) She requested the boys to wait there till she got back
(D) She requested the boys to wait there till she comes back
-

87. The options given below combine to form a meaningful sentence. Identify the erroneous statement from among the options:

1. I am fully aware that
2. my wife is one of those
3. who is totaly committed
4. to the family and its wellbeing.

- (A) 1 is incorrect
(B) 2 is incorrect
(C) 3 is incorrect
(D) 4 is incorrect
-

88. The options given below combine to form a meaningful sentence. Identify the erroneous statement from among the options:

1. He made me to wait
2. for him, while he
3. changed his coat,
4. as it was cold.

- (A) 1 is incorrect
- (B) 2 is incorrect
- (C) 3 is incorrect
- (D) 4 is incorrect

Instructions [89 - 90]

Look at the underlined part of the sentence below. The sentence is given three possible substitutes for the underlined part. If one of them is better than the underlined part, mark that as the answer. If none of the substitutions improve the sentence, mark no improvement as your answer.

89. The winter was such severe that even water in the taps was frozen and this created a lot of inconvenience to everyone in the family.

- (A) severe so much
- (B) so severe
- (C) severe such
- (D) no improvement

90. The members of his family are coming in this train and I am sure that it will be a memorable trip for all of them.

- (A) on
- (B) by
- (C) with
- (D) no improvement

91. Some words are given below. In which order should they be arranged to give an affirmative sentence, so that the part of the day comes last?

AT / EVENING / AGAIN / LAST / MET / WE / HER / HOSPITAL / THE 1 2 3 4
5 6 7 8 9

(Note: DO NOT include spaces in your answer)

Solution:

We need to rearrange the words to form a meaningful sentence.

Step 1: Identify the subject and verb. - Subject = "We" (6)

- Verb = "met" (5)

Step 2: Identify the object and other parts. - Object = "her" (7)

- Adverb = "again" (3)

- Place = "at the hospital" → "at" (1), "the" (9), "hospital" (8)

- Time = "last evening" → "last" (4), "evening" (2)

Step 3: Construct the sentence. "We met her again at the hospital last evening."

Step 4: Match the sequence with numbers. Sentence order → 6 (We), 5 (met), 7 (her), 3 (again), 1 (at), 9 (the), 8 (hospital), 4 (last), 2 (evening).

Final order = 657319842.

"We met her again at the hospital last evening."

Quick Tip

When arranging jumbled words, always start with Subject + Verb, then add Object, followed by place and time expressions.

92. In a class, Roll No 101 states that the plural of the word CRISIS is CRISES. Roll No 102 states that the plural is CRISISES, and Roll No 103 states that the plural is CRISIS itself. The Roll No of the student who gave the correct answer is:

(Note: DO NOT include spaces in your answer)

Solution:

Step 1: Check the singular form. - Word given = "crisis".

Step 2: Form the plural. - Rule: Words ending in "-is" change to "-es" in plural.

- Example: analysis → analyses, basis → bases.

Step 3: Apply the rule. - crisis → crises.

Step 4: Verify options. - Roll No 101: crises → correct.

- Roll No 102: criseses → incorrect spelling.

- Roll No 103: crisis (same form) → incorrect.

Thus, the correct Roll No is **101**.

Quick Tip

For words ending in "-is" (like crisis, analysis, thesis), the plural form is made by changing "-is" to "-es".

93. There are 4 boards in a business school which have displayed the meaning of the term that means "A process in which an independent person makes an official decision that ends a legal disagreement without the need for it to be solved in court."

Board 1: ARBITRATION

Board 2: ARBITERATION

Board 3: ARBETRATION

Board 4: ARBITATION

The board that has displayed the correct spelling of the term is Board No: (Note:- DO NOT include spaces in your answer)

94. In an English Test, Column A gives a word, Column B gives its past participle and Column C gives the code of the pair as below:

Word	Past Participle	Code
WEAR	WEARING	1
WEAR	WEAR	2
WEAR	WORN	3
WEAR	WEARED	4

Which Code should Shamu choose, if he is asked to choose the correct pair of word and its corresponding past participle? (Note:- DO NOT include spaces in your answer)

95. Four friends 1, 2, 3 and 4 are arguing on who is right in stating an English proverb.

1. states that the correct proverb is "A swarm in May is worth a load of hay; a swarm in June is worth a full moon; but a swarm in July is not worth a fly."
2. states that the proverb is "A swarm in May is worth a load of hay; a swarm in June is worth a looney toon; but a swarm in July is not worth a fly."
3. states the proverb as "A swarm in May is worth a load of hay; a swarm in June is worth a silver spoon; but a swarm in July is not worth a fly."
4. states that the proverb actually is "A swarm in May is worth a load of hay; a swarm in June is worth a golden boon; but a swarm in July is not worth a fly."

Who is correct in stating the proverb? (Note:- DO NOT include spaces in your answer)

Solution:

The traditional English beekeeping proverb is:

*"A swarm in May is worth a load of hay; a swarm in June is worth a **silver spoon**; but a swarm in July is not worth a fly."*

Only Friend 3 states "silver spoon" for June, which matches the accepted version. The other variants—"full moon," "looney toon," and "golden boon"—are incorrect.

Final Answer: 3

Quick Tip

For proverb questions, focus on the canonical phrasing—here, “silver spoon” is the key collocation with “June.”

Instructions [96 - 100]

Read the following passage and answer the questions that follow.

ASSOCIATED PRESS San Francisco August 13 2018 Google wants to know where you go so badly that it records your movements even when you explicitly tell it not to. An Associated Press investigation found that many Google services on Android devices and iPhones store your location data even if you’ve used privacy settings that say they will prevent it from doing so. Computer science researchers at Princeton confirmed these findings at the AP’s request. For the most part, Google is upfront about asking permission to use your location information. An app like Google Maps will remind you to allow access to location if you use it for navigating. If you agree to let it record your location over time, Google Maps will display that history for you in a “timeline” that maps out your daily movements. Storing your minute-by-minute travels carries privacy risks and has been used by police to determine the location of suspects - such as a warrant that police in North Carolina, served on Google last year to find devices near a murder scene. So the company will let you “pause” a setting called Location History. Google says this will prevent the company from remembering where you have been. Google’s support page on the subject states. “You can turn off Location History at any time. With Location History off, the places you go are no longer stored”. That isn’t true. Even with Location History paused, some Google apps automatically store time — stamped location data without asking. For example, Google stores a snapshot of where you are when you merely open its Maps app. Automatic daily weather updates on Android phones pinpoint roughly where you are. And some searches that have nothing to do with location, like “chocolate chip cookies” or “kids science kits,” pinpoint your precise latitude and longitude — accurate to the square foot and save it to the Google account. The privacy issue affects some two billion users of devices that run Google’s Android operating software and hundreds of millions of world wide iPhone users who rely on Google for maps or search. Storing location data in violation of a user’s

preferences is wrong, said Ionathon Mayer, a Princeton computer scientist. A researcher from Mayer's lab confirmed the AP's findings; the AP conducted its own tests on several iPhones that found the same behaviour. "If you are going to allow users to turn off something called 'Location History', then all the places where you maintain 'Location History' should be turned off," Mayer said. "That seems like a pretty straightforward position to have". Google says it is being perfectly clear. "There are a number of different ways that Google may use location to improve people's experience, including: Location History, Web and App activity and through device-level Location Services" a Google spokesperson said. "We provide clear descriptions of these tools, and robust controls, so people can turn them on and off, and delete their histories at any time." To stop Google from saving these location markers, the company says, users can turn off another setting, one that does not specifically reference location information. Called "Web and App activity" and enabled by default, that setting stores a variety of information from Google apps and websites to your Google account. When paused, it will prevent activity on any device from being saved to your account But leaving "Web and App activity" on and turning "Location History" off only prevents Google from adding your movements to the "timeline", its visualization of your daily travels. It does not stop Google's collection of other location markers.

96. For the most part, Google is upfront about asking permission to use your location information. This sentence means:

- (A) Google is not secretive about recording your movements
- (B) Google is tracking your movements even if you don't want it to
- (C) Google is quite candid about asking you to allow it to show you where you are located
- (D) None of the option is correct

97. When the author says : 'That isn't true' to Google's claim that "you can turn off Location History at any time...and the places you go are no longer stored" ... he means

- A) Although Google declares that the places are no longer stored, they automatically store time stamped location data without asking.
- B) Google asks permission every time it stores data

- C) Google tracks your movements and tells you about it
 - D) The author is paranoid.
-

98. How many users does the privacy issue affect?

- (A) Half the world population
 - (B) Two billion users and hundreds of millions of iPhone users
 - (C) Data not available
 - (D) Everyone who owns a phone
-

99. What does the author mean when he says: 'It does not stop Google's collection of other location markers?'

- (A) Google only informs you of your location
 - (B) If Location history is off, Google does not collect the location markers
 - (C) If you leave 'Web and App Activity' on and turn 'Location History' off, Google can still collect the location markers
 - (D) None of the option is correct
-

100. An appropriate title to this passage would be:

- (A) Android iPhones and Google
 - (B) Google snapshot
 - (C) Google tracks you, with or without your permission
 - (D) Smart phones are a boon
-

Instructions [101 - 105]

Read the following passage and answer the questions that follow.

Frederic Bastiat, who was that rarest of creatures, a French free-market economist, wrote to this newspaper in 1846 to express a noble and romantic hope: "May all the nations soon

throw down the barriers which separate them.” Those words were echoed 125 years later by the call of John Lennon, who was not an economist but a rather successful global capitalist, to “imagine there’s no countries”. As he said in his 1971 song, it isn’t hard to do. But despite the spectacular rise in living standards that has occurred as barriers between nations have fallen, and despite the resulting escape from poverty by hundreds of millions of people in those places that have joined the world economy, it is still hard to convince publics and politicians of the merits of openness. Now, once again, a queue is forming to denounce openness—i.e., globalisation. It is putting at risk the next big advance in trade liberalisation and the next big reduction in poverty in the developing countries. The world will find out, to some extent, next month when ministers from the 148 countries in the WTO meet in Hong Kong. The last time they gathered for such a crucial meeting was in September 2003 in Cancun, and the result was a shambles. There was a bitter row between rich countries and poor ones, and the meeting broke up in acrimony. At that stage, however, there was still plenty of time to repair the damage. For in effect, the deadline for the Doha round comes in June 2007, when the trade negotiating authority granted by Congress to President Bush expires. But, although that leaves more than a year and a half after Hong Kong, the complexity of a negotiation involving 148 countries and scores of highly technical issues means that the deal really needs to be done during 2006, with the political framework for it set early on—which essentially means in Hong Kong. The case for selfish generosity Trade-liberalisation rounds are arcane affairs about which free-traders are often thought to cry wolf. The previous talks, known as the Uruguay round, went through lots of brinkmanship and delays before they were completed. The result was still disappointing in many ways, especially to developing countries, and yet, since the round’s completion in 1993, the world economy has grown lustily and the biggest developing countries, China, India and Brazil, have all burst on to the global trading scene. Would the world really be hurt if the EU merely refuses to expose its farmers to more competition? The likeliest outcome both from the Hong Kong meeting and the eventual Doha agreement is a compromise—as always. The European position is feeble but not risible, for it has offered an overall average cut in its farm tariffs of 39% though with rather a lot of loop holes that could severely limit the benefits. France, and other European farm protectionists, may prove more flexible than they currently imply: this is hardly the first time

they have promised to man the barricades shortly before striking a deal. Yet though some sort of fudge in Hong Kong must be likely, with the Americans lowering their ambition and the Europeans raising theirs a little, such an outcome would still represent both a missed opportunity and a risk. The missed opportunity is that Doha has offered the first proper chance to involve developing countries in trade negotiations—they now make up two-thirds of the WTO members—but also thereby to use a full exchange of agricultural, industrial and service liberalisations to make a big advance in free trade that could benefit a wide range of countries. Some of that progress may still be made, even in a fudged deal: Brazil, for example, stands to benefit hugely from freer trade in agriculture, so it should be willing to promote other concessions in return. India is reluctant to cut its own farm tariffs but has a big interest in liberalising trade in services, wanting more freedom in everything from finance to health care to entertainment. But if the rich world could gird itself to be more ambitious on agriculture, the gains would be even greater: help for the poorest countries, making the rich look generous; better access to the biggest and richest developing countries for western companies; and a rise in global income in a decade's time of 300 billion a year (says the World Bank), which would thus help everyone. The risk is that failure to agree on a new wave of openness during a period [the past two years] in which the world economy has been growing at its fastest for three decades, with more countries sharing in that growth than ever before, will set a sour political note for what may well be tougher times ahead. A turn away from trade liberalisation just ahead of an American recession, say, or a Chinese economic slowdown, could open up a chance not just for a slowdown in progress but for a rollback. Currently, for example, the Schumer bill to put a penal tariff on Chinese goods looks unlikely to pass. If American unemployment were rising and world trade talks had turned acrimonious, that might change. So might the political wind in many developing countries. If so, that would be a tragedy for the whole world. Although the case for reducing poverty by sending more aid to the poorest countries has some merit, the experience of China, South Korea, Chile and India shows that the much better and more powerful way to deal with poverty is to use the solution that worked in the past in America, western Europe and Japan: open, trading economies, exploiting the full infrastructure of capitalism (including financial services) amid a rule of law provided by government. In other words, globalisation. To paraphrase Samuel Johnson, anyone who is tired of that, is tired of life.

101. According to the article, why is Frederic Bastiat called the "rarest of creatures"?

- (A) Because he was a German industrialist
 - (B) Because he was a French who promoted a free market economy
 - (C) Because he wrote to a newspaper
 - (D) Because he was a friend of John Lennon
-

102. Who was John Lennon?

- (A) A writer
 - (B) An economist
 - (C) A singer
 - (D) An industrialist
-

103. According to the article, the better way to deal with poverty is:

- (A) By giving more aid to poor countries
 - (B) By reducing interest rates
 - (C) By moving away from democracy
 - (D) By exploiting the full infrastructure of capitalism
-

104. "Trade-liberalisation rounds are arcane affairs". The adjective arcane means:

- A) Well known
 - B) International
 - C) Incomprehensible
 - D) Transparent
-

105. As per the article, India's position with respect to the talks is:

- (A) Reduced taxes for agriculture and liberalisation for manufacturing sector

- (B) Reduced taxes for agriculture and liberalisation for services sector
 - (C) Higher tariff for agriculture and liberalisation for manufacturing sector
 - (D) Higher tariff for agriculture and liberalisation for services sector
-

General knowledge

106. The Statue of Unity, built as a tribute to the first was inaugurated on Oct 31, 2018.

- (A) Deputy Prime Minister of India
 - (B) Deputy Chief Minister of Gujarat
 - (C) President of India
 - (D) Vice President of India
-

107. In August 2018, Intel was overtaken as the world's largest chipmaker, and the new leader made a major move into autonomous driving by acquiring Israeli visual sensor company Mobileye.

- (A) Google
 - (B) Samsung
 - (C) AMD
 - (D) Qualcomm
-

108. In 2017, Facebook acquired the video editing technology company named:

- (A) Fayteq
 - (B) BenQ
 - (C) Instagram
 - (D) Survival Vision
-

109. In October 2018, the ex-director of Amazon joined as a Chief Technology and Product Officer (CTPO) for Chqbook.com, the Gurgaon-based financial technology startup. Who was he?

- (A) Sachin Arora
 - (B) Prakash Malhotra
 - (C) Rohit Bansal
 - (D) Suresh Wadhwani
-

110. Recently, a section of the RBI Act came into spotlight amid the war between the Central Government and the Reserve Bank of India (RBI). The provision empowers the government to issue directions to the RBI. Which section is it?

- (A) Section 8
 - (B) Section 7
 - (C) Section 9
 - (D) Section 10
-

111. The Prime Minister of India, on September 23, 2018, rolled out the scheme touted as the world's largest healthcare scheme. The insurance scheme provides an annual health cover of ₹5 lakhs per family.

- (A) Ayushman Bharat - Pradhan Mantri Jan Aarogya Yojana
 - (B) Ayushman Desh - Pradhan Mantri Jan Aarogya Yojana
 - (C) Ayushman jeevan - Pradhan Mantri Jan Aarogya Yojana
 - (D) Ayushman Parivar - Pradhan Mantri Jan Aarogya Yojana
-

112. Recently, Tata Motor's first SUV built on Land Rover's D8 architecture was developed in collaboration with Jaguar Land Rover. It is called:

- (A) Tata Harrier

- (B) Tata Sierra
 - (C) Tata Hexa
 - (D) Tata Crux
-

113. In September 2018, ___ and ___ were all set to acquire Aditya Birla Group's Food and Grocery retail chain, even as an investment bank exited the consortium.

- (A) Samara Capital, Amazon, Goldman Sachs
 - (B) Samara Capital, Alibabamazon, Barclays
 - (C) Soft Bank, Amazon, JP Morgan
 - (D) Softbank, Amazon, DeutscheBank
-

114. The world's first holographic screen phone has a holographic screen that produces 3-D visuals without needing special glasses.

- (A) Hydrogen One
 - (B) Nitrogen One
 - (C) Carbon One
 - (D) Oxygen One
-

115. Almost six months after Chief Economic Advisor Arvind Subramanian left the Finance Ministry, the government has recently appointed to the post:

- (A) Krishnamurthy Subramanian
 - (B) Krishnan Subramanian
 - (C) Krishnakumar Subramanian
 - (D) Shaktikanta Das
-

116. Assembly Polls were held between November 2018 and December 2018 in which states?

- (A) Madhya Pradesh, Rajasthan, Chhattisgarh, Mizoram and Telangana only
 - (B) Madhya Pradesh, Rajasthan, Chhattisgarh and Mizoram only
 - (C) Madhya Pradesh, Rajasthan, and Chhattisgarh only
 - (D) Madhya Pradesh, Rajasthan, Chhattisgarh and Telangana only
-

117. The political party floated by actor-turned-politician Kamal Haasan is:

- (A) Makkal Needhi Maiam
 - (B) Makkal Munnetra Maiam
 - (C) Makkal Munnetra Kazhagam
 - (D) Makkal Kazhagam
-

118. In June 2018, who was appointed MD and CEO of IDBI Bank in place of who took charge as Deputy Governor of Reserve Bank of India?

- (A) B Sriram, Mahesh Kumar Jain
 - (B) R Raghuram, Vinnnet Kumar Jain
 - (C) D Shriram, Rahul Kumar Jain
 - (D) K Sridharan, Shyam Kumar Jain
-

119. In October 2018, who received the Champions of the Earth Award, a top UN honour that recognizes contribution in the field of environment and environmental protection?

- (A) Shri Narendra Modi
 - (B) Shri James Hansen
 - (C) Shri Bill McKibben
 - (D) Smt. Vandana Shiva
-

120. In September 2018, was appointed as the Vice Chairman of the University Grants Commission.

- (A) Prof. Satish Chandra
 - (B) Prof. B. Ramachandra Rao
 - (C) Prof. Rais Ahmed
 - (D) Prof. Bhushan Patwardhan
-

121. In December 2017, bought Foodpanda India from its German parent Delivery Hero in a stock deal pegged at about \$30 million, entering a resurgent food-delivery market.

- (A) Ola, Hero
 - (B) Swiggy, Siemens
 - (C) Zomato, BOSCH
 - (D) Uber, Volkswagen
-

122. In October 2018, Dish TV—India's first and largest direct-to-home (DTH) company, signed up as its brand ambassador to woo the younger audience with its largest brand campaign.

- (A) Ranveer Singh
 - (B) Shahrukh Khan
 - (C) Ayushmann Khurrana
 - (D) Tiger Shroff
-

123. Who is the person shown in the picture below who won the Ramon Magsaysay Award 2018?

- (A) Sonam Wangchuk

- (B) Tenzin Ragbay
 - (C) Rinzin Wangmo
 - (D) Namgutzbhutia Dorji
-

124. The Nobel Peace Prize 2018 was awarded jointly to two individuals for their efforts to end the use of sexual violence as a weapon of war and armed conflict. Who were they?

- (A) Denis Mukwege, Nadia Murad
 - (B) Denis Margo, Naida Moralis
 - (C) Denis Gurang, Nadia Posche
 - (D) Denis Levis, Naida Johnes
-

125. From the beginning of 2018 which of these sectors has been allowed for automatic hundred per cent foreign direct investment (FDI) in India?

- (A) Multi Brand Retailing
 - (B) Defence Manufacturing
 - (C) Banking
 - (D) Single Brand Retailing
-

126. The 2018 Asian Games were held in how many cities of Indonesia?

Solution:

The 2018 Asian Games were hosted by Indonesia. For the first time in the history of the Asian Games, the event was conducted in **two different cities simultaneously**: - **Jakarta** (the capital city of Indonesia) hosted the majority of the sports and opening/closing ceremonies.

- **Palembang** (the capital of South Sumatra province) hosted several sporting events as a co-host city.

This co-hosting arrangement was made to spread infrastructure pressure and to encourage regional participation in such large-scale international events.

2 cities: Jakarta and Palembang

Quick Tip

The 2018 Asian Games were the 18th edition and the first ever to be hosted in two cities.

127. The Ministry of Agriculture and Farmer Welfare launched the Krishi Kalyan Abhiyan from the __th month of 2018 which could lead and advise farmers on the means to improve their farming techniques.

Solution:

The **Krishi Kalyan Abhiyan** was launched by the Ministry of Agriculture and Farmer Welfare in **June 2018** (6th month). The aim of this campaign was to aid farmers in 112 aspirational districts across India.

Key objectives included: - Distribution of soil health cards and mini kits of pulses and horticulture.

- Demonstrations of improved agricultural practices.
- Awareness on water conservation and balanced use of fertilizers.

The program was designed to uplift farmers by providing them with modern techniques and government support mechanisms.

6th month = June 2018

Quick Tip

June 2018 saw the launch of Krishi Kalyan Abhiyan, focusing on aspirational districts for agricultural upliftment.

128. What was the rank of India in 2018 United Nation World Happiness Index Report?

Solution:

The **World Happiness Report 2018** is an annual publication of the United Nations Sustainable Development Solutions Network. The report ranks countries based on factors such as GDP per capita, social support, healthy life expectancy, freedom, generosity, and perception of corruption.

- In 2018, **India was ranked 133 out of 156 countries**, dropping significantly from previous years.
- The top position was held by **Finland**, while other Nordic countries like Norway, Denmark, and Iceland followed.

India's low ranking was attributed to social challenges, inequality, and governance issues despite strong GDP growth.

India's Rank = 133

Quick Tip

Remember: Finland topped the 2018 World Happiness Index, while India ranked low at 133.

129. _____ was the number of seats won by the party who got majority in Chhattisgarh in recent 2018 Vidhan Sabha elections.

Solution:

In the **2018 Chhattisgarh Vidhan Sabha elections**, the state witnessed a major political shift: - The **Indian National Congress (INC)** secured a sweeping victory by winning **68 seats out of 90**.

- The incumbent **Bharatiya Janata Party (BJP)** won only 15 seats, marking a heavy loss after 15 years of rule.

This majority paved the way for **Bhupesh Baghel** of the Congress party to become the Chief Minister of Chhattisgarh.

68 seats won by Congress (INC)

Quick Tip

Congress won 68 out of 90 seats in Chhattisgarh 2018, ending BJP's 15-year rule.

130. How many persons were awarded the Nobel Prize in Economic Sciences in 2018?

Solution:

The Nobel Prize in Economic Sciences (2018) was awarded to two eminent economists: -

William D. Nordhaus (for integrating climate change into long-term macroeconomic analysis).

- **Paul M. Romer** (for integrating technological innovations into long-term macroeconomic analysis).

Both contributed significantly to understanding how climate change and innovation affect long-term economic growth.

2 recipients – William Nordhaus & Paul Romer

Quick Tip

Nobel Prize in Economics 2018 was shared by William Nordhaus and Paul Romer, both Americans.