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Analysis of CAPF Aptitude & Reasoning [last 5years]

Feature

- It contains Analysis of CAPF 2015 – 2019 “aptitude and reasoning” portion.
- We have provided segregated list of topics based on analysis.
- This list of topics is just indicative to prioritise your study.

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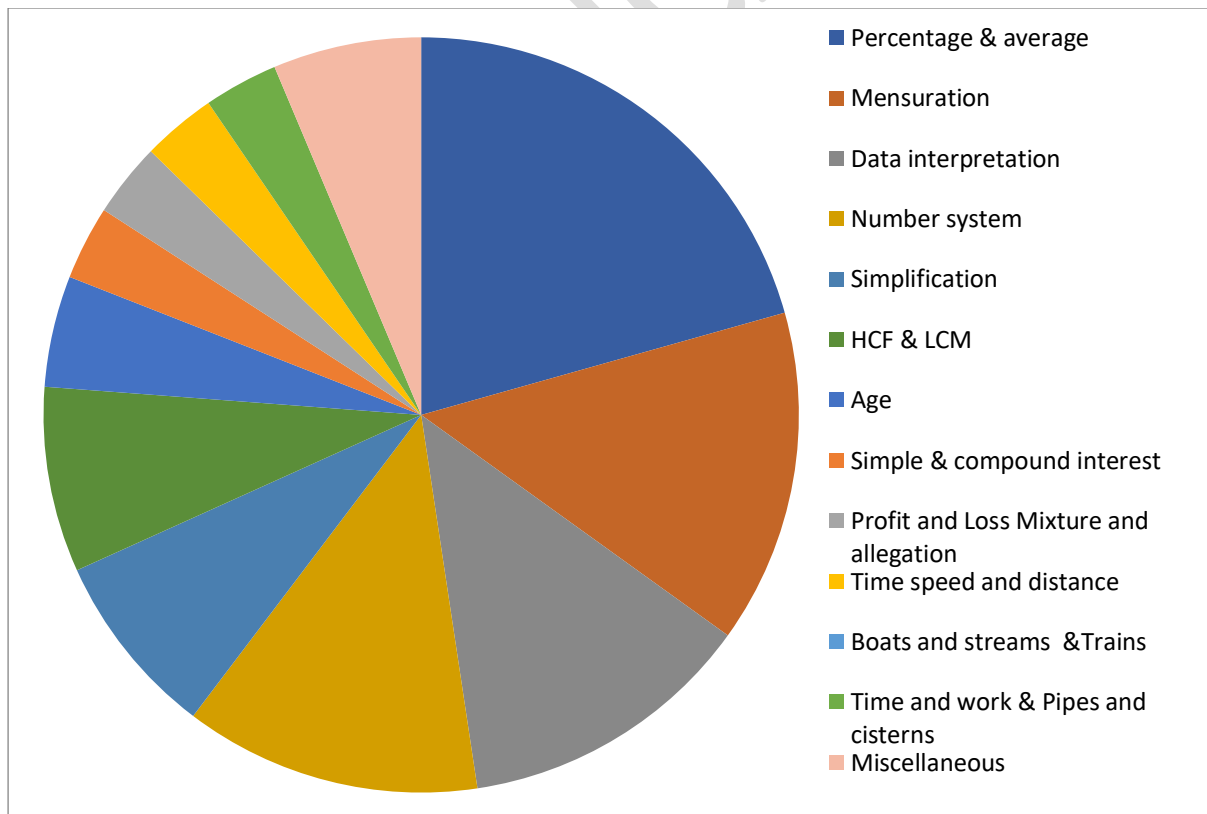
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Aptitude

| Serial no. | Topics | No. Of questions |
|------------|--|------------------|
| 1 | Percentage & average | 13 |
| 2 | Mensuration | 9 |
| 3 | Data interpretation | 8 |
| 4 | Number system | 8 |
| 5 | Simplification | 5 |
| 6 | HCF & LCM | 5 |
| 7 | Age | 3 |
| 8 | Simple & compound interest | 2 |
| 9 | Profit and Loss Mixture and allegation | 2 |
| 10 | Time speed and distance Boats and streams &Trains | 2 |
| 11 | Time and work & Pipes and cisterns | 2 |
| 12 | Miscellaneous | 4 |

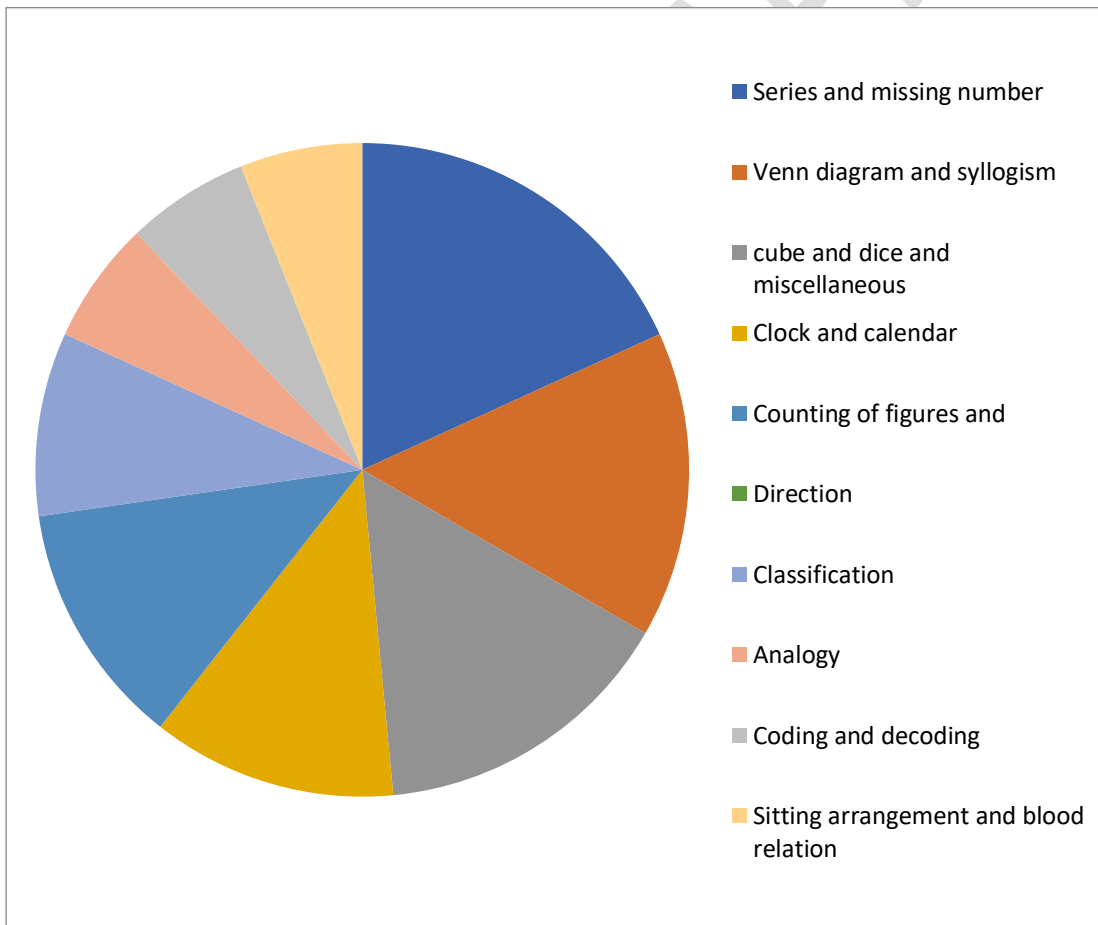


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Reasoning

| Serial no. | Topics | No. Of question |
|------------|--|-----------------|
| 1 | Series and missing number | 6 |
| 2 | Venn diagram and syllogism | 5 |
| 3 | cube and dice and miscellaneous | 5 |
| 4 | Clock and calendar | 4 |
| 5 | Counting of figures and Direction | 4 |
| 6 | Classification | 3 |
| 7 | Analogy | 2 |
| 8 | Coding and decoding | 2 |
| 9 | Sitting arrangement and blood relation | 2 |



Aptitude section

Percentage & Average

1. One-sixth of a number is 53. What will be 57% of that number [CAPF – 2019]

- (a) 136.74
- (b) 149.46
- (c) 181.26
- (d) 197.16

ANS = C

2. If the numerator of a fraction is increased by 200% and the denominator is increased by 300%, the resultant fraction is [CAPF – 2019]

- (a) 10/17
- (b) 11/17
- (c) 12/17
- (d) 13/17

ANS = C

3. In a test consisting of 150 questions, Neha answered 40% of the first 90 questions correctly. What per cent of the 60 questions does she need to answer correctly for her score in the entire test to be 60%? [CAPF – 2019]

- (a) 75
- (b) 80
- (c) 85
- (d) 90

ANS = D

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4. In an examination, 53% students passed Mathematics, 61% passed in Physics 60% passed in Chemistry, 24% passed in Mathematics and Physics, 35% in Physics and Chemistry; 27% in Mathematics and Chemistry and 5% in none, The ratio of percentage of passes in Mathematics and Chemistry but not in Physics in relation to the percentage of passes in Physics and Chemistry but not in Mathematics is [CAPF – 2018]

(a) 7:5

(b) 5:7

(c) 4:5

(d) 5:4

ANS = B

5. An international conference is attended by 65 people. They all speak at least one of English, French and German language. Suppose 15 speak English and Frenchs 13 speak English and German, 12 speak French and German and 5 speak all the three languages. A total of 30 people can speak German and 30 can speak French. What is the number of people who can speak only English? [CAPF – 2018]

(a) 17

(c) 22

(b) 20

(d) 40

ANS = A

6. Suppose a, b, C, d and e are five consecutive odd numbers in ascending order. Consider the following statements. [CAPF – 2018]

1. Their average is $(a + 4)$.

2. Their average is $(b + 2)$.

3. Their average is $(e - 4)$.

Which of the statements given is/are correct?

(a) 1 only

(b) 2 and 3 only

(c) 1 and 3 only

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(d) 1, 2 and 3

ANS = D

7. In an examination, 25 % of the candidates failed in Mathematics and 12% failed in English. If 10% of the candidates failed in both the subjects and 292 candidates passed in both the subjects, which one of the following is the number of total candidates appeared in the examination? [CAPF – 2017]

(a) 300

(b) 400

(c) 460

(d) 500

ANS = B

8. 5% of income of A is equal to 15% of income of B and 10% income of B is equal to 20% of income of C. If the income of C is Rs. 2,000, then what is the total income of A, B and C? [CAPF – 2017]

(a) Rs. 20,000

(b) Rs 18,000

(c) Rs 14,000

(d) Rs 6,000

ANS = B

9. In an election which was contested by two candidates, X and Y, 4000 votes were polled. Suppose that every vote was polled in favour of either of the two candidates. Candidate Y got 40% of vote polled and was defeated. What was the margin of defeat? CAPF - 2017

(a) 500 votes

(b) 800 votes

(c) 1200 votes

(d) 1600 votes

ANS = B

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10. The average of 7 consecutive odd numbers is M . If the next 3 odd numbers are also included, the average [CAPF – 2017]

- (a) Remains unchanged
- (b) Increases by 1.5
- (c) Increases by 2
- (d) Increase by 3

ANS = D

11. 'A' 'B' and 'C' started their independent businesses with equal amounts of capital. During the first year 'A' made 10% profit, 'B' incurred 10% loss and 'C' made a profit of 5%. In the second year 'A' incurred 20% loss, 'B' made profit of 20% and 'C' made profit of 5%. Which of the following is FALSE at the end of second year? [CAPF – 2015]

- (a) 'C' is the richest
- (b) 'A' is the poorest
- (c) 'B' is the richest
- (d) 'C' is richer than 'B'

ANS = B

12. In an examination, there are three subject's 'A', 'B' and 'C'. A student to pass in each subject. 20% students failed in 'A', 22% students failed in 'B' and 16% students failed in 'C'. The total number of students passing the whole examination lies between: [CAPF – 2015]

- (a) 42 % and 84%
- (b) 42 % and 78 %
- (c) 58 % and 78 %
- (d) 58% and 84 %

ANS = B

13. 65% students in a class like cartoon movies, 70% like horror movies, and 75% like war movies. What is the smallest percent of students liking all the three types of movies? [CAPF – 2015]

- (a) 10 %

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(b) 25 %

(c) 30 %

(d) 5 %

ANS = A

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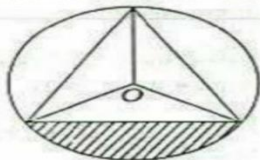
1. If a circle and a square have the same perimeter, then [CAPF – 2019]

- (a) Their areas are equal
- (b) The area of the circle is greater than the area of the square
- (c) The area of the square is greater than the area of circle
- (d) The area of the circle is two times the area of the square

ANS = B

2. [CAPF – 2018]

Consider the following diagram :



An equilateral triangle is inscribed in a circle of radius 1 unit. The area of the shaded region, in square unit, is

- (a) $\frac{\pi}{3} - \frac{\sqrt{3}}{4}$
- (b) $\frac{\pi}{3} - \frac{1}{2}$
- (c) $\frac{\pi}{3} - \frac{3}{4}$
- (d) $\frac{\pi}{3} - 1$

ANS = A

3. [CAPF – 2018]

Which one of the following is the area of a sector of a circle of radius 10 cm formed by an arc length of 15 cm?

- (a) $10\pi \text{ cm}^2$
- (b) $15\pi \text{ cm}^2$
- (c) 75 cm^2
- (d) 150 cm^2

ANS = C

4. If a cubical container of length, breadth and height each of 10 cm can contain exactly 1 liters of water, then a spherical container of radius 10.5 cm can contain CAPF - 2018

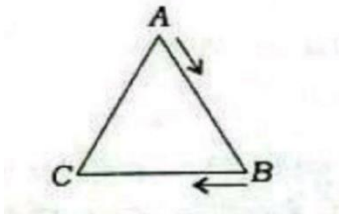
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- (a) Not more than 4 liters of water
- (b) More than 4 liters but less than liters of water
- (c) more than liters but less than 5 liters of water
- (d) More than S liters of water

ANS = C

5. Consider an equilateral triangle ABC as given in the following diagram [CAPF - 2018]



Two people start at the same time from points A and B with speeds 30 km per hour and 20 km per hour respectively, and move on the sides of the triangle in the clockwise direction, they meet each other for the first time at

- (a) point C
- (b) a point between C and A
- (c) a point between A and B
- (d) point A

ANS = D

6. The length of a rectangle is increased by 60%. By what per cent would the width have to be decreased to maintain the same area? [CAPF – 2017]

- (a) 37.5 %
- (b) 60%
- (c) 75 %
- (d) 120 %

ANS = A

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7. There are two concentric circles. The radii of the two circles are 100 m and 110 m respectively. A wheel of radius 30 cm rolls on the smaller circle and another wheel rolls on the larger circle. After they have completed one revolution, it is found that the two wheels rolled equal number of times on their respective axes. What is the radius of the other wheel? [CAPF – 2016]

- (a) 31 cm
- (b) 32 cm
- (c) 33 cm
- (d) 34 cm

ANS = C

8. A circular coin of radius 1 cm is allowed to roll freely on the periphery over a circular disc of radius 10 cm. if the disc has no movement and the coin completes one revolution rolling on the periphery over the disc and without slipping. Then what is the number of times the coin rotated about its center? [CAPF - 2016]

- (a) 10
- (b) 10.5
- (c) 11
- (d) 12

ANS = C

9. [CAPF – 2015]

Two racing cars of masses m_1 and m_2 are moving in circles of radii r_1 and r_2 respectively. Their speeds are such that each car makes a complete circle in the same time 't'. The ratio of angular speed of the first to that of the second car is :

- (a) $m_1 : m_2$
- (b) 1 : 1
- (c) $r_1 : r_2$
- (d) 1 : 2

ANS = B

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Data interpretation

1. [CAPF – 2017]

Direction :

The next three items are based on the information provided below :

Investment in various industries/sectors across five years (in Rupees Hundred Crore)

| Type of industry/sector | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 |
|-------------------------|---------|---------|---------|---------|---------|
| Manufacturing | 740 | 800 | 470 | 440 | 810 |
| Electrical | 500 | 520 | 600 | 650 | 800 |
| Services | 420 | 480 | 500 | 600 | 750 |
| Mining | 440 | 500 | 550 | 600 | 660 |
| Others | 800 | 900 | 980 | 1110 | 1080 |

1. What is the percentage investment in the Electrical 2005-06 to 2009-10? [CAPF – 2017]

- (a) 30%
- (b) 40%
- (c) 50%
- (d) 60%

ANS = D

2. During the given years, what is the average investment per year for the services sector (in Rupees Hundred Crore)? [CAPF – 2017]

- (a) 490
- (b) 550
- (c) 580
- (d) 670

ANS = B

3. During which one of the following years, was the total investment maximum? [CAPF – 2017]

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- (a) 2006-07
- (b) 2007-08
- (c) 2008-09
- (d) 2009-10

ANS = D

4 & 5. [CAPF – 2015]

The next *two (02)* items are based on the following Table :

The following table shows the frequency distribution of weekly wages of 65 employees :

| Wages (in Rupees) | No. of employees |
|-------------------|------------------|
| 251—260 | 8 |
| 261—270 | 10 |
| 271—280 | 16 |
| 281—290 | 14 |
| 291—300 | 10 |
| 301—310 | 5 |
| 311—320 | 2 |

4. What is the percentage of employees earning less than Rs. 301 per week but more than Rs. 260 per week?

- (a) 61.5
- (b) 76.9
- (c) 89.2
- (d) 84.6

ANS = B

5. What is the difference between the percentage of employees earning between Rs. 261 and Rs. 300 per week and employees earning less than Rs. 281 per week?

- (a) 36.9%
- (b) 15.3 0/0

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(c) 24.6 %

(d) 28.2%

ANS = C

6 & 7 [CAPF - 2015]

The next *two (02)* items are based on the following Table :

No. of students studying in different standards of 6 different schools

| Standard \ School | I | II | III | IV | V | VI |
|-------------------|----|----|-----|----|----|----|
| A | 42 | 54 | 48 | 58 | 50 | 38 |
| B | 50 | 60 | 58 | 45 | 45 | 46 |
| C | 40 | 48 | 58 | 46 | 42 | 54 |
| D | 45 | 55 | 46 | 40 | 52 | 50 |
| E | 48 | 55 | 44 | 55 | 52 | 48 |
| F | 51 | 52 | 54 | 42 | 60 | 54 |

6. What is the average number of students studying in Standard I from all schools together? [CAPF - 2015]

(a) 50

(b) 48

(c) 43

(d) 46

ANS = D

7. What is the respective ratio of students studying in Standard III of schools A and B together to those studying in Standard VI of schools C and D together? [CAPF - 2015]

(a) 53: 52

(b) 43: 47

(c) 25: 27

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(d) 39: 38

ANS = A

8. In a school, there are three batches of players, who play cricket, football and hockey. An incomplete chart of number of students playing an individual sport belonging to an individual batch is displayed in the following table [CAPF 2015]

| | Batch 1 | Batch 2 | Batch 3 | Total |
|------------------|---------|---------|---------|-------|
| Cricket players | | | 8 | 14 |
| Football players | | | 10 | 16 |
| Hockey players | 6 | | 6 | 17 |
| Total | | | | |

Which one of the following is correct?

- (a) Batch II is empty
- (b) Batch I and batch. II do not have equal number of students
- (c) Batch I and' batch III can have equal number of students
- (d) Batch II and batch III can have equal number of student

ANS = B

Number system

1. What is the natural number n for which $3^9 + 3^{12} + 3^{15} + 3^n$ is a perfect cube of an integer? [CAPF – 2019]

- (a) 10
- (b) 11
- (c) 13
- (d) 14

ANS = D

2. When the digits of two-digit numbers are reversed, the number increases by 27; the sum of such two-digit numbers is [CAPF – 2019]

- (a) 235
- (b) 249
- (c) 213
- (d) 180

ANS = B

3. What is the largest value for n (natural number) such that 6^n divides the product of the first 100 natural numbers? [CAPF – 2018]

- (a) 18
- (b) 33
- (c) 44
- (d) 48

ANS = D

4. Suppose $72 = m \times n$, where m and n are positive integers such that $1 < m < n$. How many possible values of m are there? [CAPF – 2018]

- (a) 5
- (b) 6

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(C) 10

(d) 12

ANS = A

5. Which one of the following is the remainder when 10^{20} is divided by 7? [CAPF – 2018]

(a) 1

(b) 2

(c) 4

(d) 6

ANS = B

6. A 3-digit number $4X3$ is added to 984 to get a 4-digit number $13Y7$. If $13Y7$ is divisible by 11, then what is the value of $(X+Y)$?

[CAPF – 2017]

(a) 15

(b) 12

(c) 11

(d) 10

ANS = D

7. If the product of n positive numbers is unity, then their sum is [CAPF – 2017]

(a) A positive integer

(b) Divisible by n

(c) Equal to $n + 1/n$

(d) Never less than n

ANS = D

8. How many numbers from 1 to 1000 are there which are NOT divisible by any of the digits 2, 3 and 5? [CAPF – 2015]

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(a) 166

(b) 266

(c) 366

(d) 357

ANS = B

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HCF AND LCM

1. The least integer when multiplied by 2940 becomes a perfect square is [CAPF – 2019]

- (a) 10
- (b) 15
- (c) 20
- (d) 35

ANS = B

2. Suppose x, y, z are three positive integers such that x, y, z and $xyz = 72$. Which one of the following values of S yields more than one solution to the equation $x+y+z=s$? [CAPF – 2018]

- (a) 13
- (b) 14
- (c) 15
- (d) 16

ANS = B

3. Two pillars are placed vertically 8 feet apart. The height difference of the two pillars is 6 feet. The two ends of a rope of length 15 feet are tied to the tips of the two pillars. The portion of the length of the taller pillar that can be brought in contact with the rope without detaching the rope from the pillars is [CAPF – 2018]

- a) Less than 6 feet
- (b) More than 6 feet but less than 7 feet
- (c) More than 7 feet but less than 8 feet
- (d) More than 8 feet

ANS = B

4. The number of ways in which 3 boys and 2 girls can be arranged in a queue, given that the 2 girls have to be next to each other, is [CAPF – 2018]

- (a) 12
- (b) 24

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(c) 48

(d) 120

ANS = C

5. Which one of the following is the smallest number by which 2880 must be divided in order to make it a perfect square? CAPF - 2017

(a) 3

(b) 4

(c) 5

(d) 6

ANS = C

SIMPLIFICATION

1. [CAPF – 2019]

Let

$$x^2 + y^2 = 1;$$

$$u^2 + v^2 = 1 \text{ and}$$

$$xu + yv = 0, \text{ then}$$

1. $x^2 + u^2 = 1$

2. $y^2 + v^2 = 1$

3. $xu + yv = 0$

Which of the above is/are true?

(a) 3 only

(b) 1 and 2 only

(c) 1, 2 and 3

(d) 2 and 3 only

ANS = C

2. [CAPF – 2018]

On simplification the product

$$(x_1 + y_1)(x_2 + y_2) \dots (x_{10} + y_{10})$$

how many such terms are there which will have only single x and rest y 's ?

(a) 2^{10}

(b) 10

(c) 20

(d) 1

ANS = B

3. [CAPF – 2018]

If the number

$$2^2 \times 5^4 \times 4^6 \times 10^8 \times 6^{10} \times 15^{12} \\ \times 8^{14} \times 20^{16} \times 10^{18} \times 25^{20}$$

is divisible by 10^n , then which one of the following is the maximum value of n ?

- (a) 78
- (b) 85
- (c) 89
- (d) 98

ANS = D

4. [CAPF – 2017]

Consider the following number :

$$n = [(6374)^{1793} \times (625)^{317} \times (313)^{49}]$$

Which one of the following is the digit at the unit place of n ?

- (a) 0
- (b) 1
- (c) 2
- (d) 5

ANS = A

5. Which one of the following inequalities is always true for positive real numbers X, Y?

CAPF - 2016

- (a) $XY > X + Y$

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(b) $(X + y) < (x + y)^2$

(c) $X + Y < X^2 + Y^2$

(d) $1 + x + y < (1 + x + Y)^2$

ANS = D

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Age

1. The ratio of ages of a man and his son is 3 after 15 years, the age ratio will be 2:1. What is the age of the man? [CAPF – 2018]

- (a) 45 years
- (b) 40 years
- (c) 35 years
- (d) 30 years

ANS = A

2. One year ago, a father was four times as old as his son. After six years his age exceeds twice his son's age by 9 years. The ratio of their present age is [CAPF – 2017]

- (a) 9: 2
- (b) 11:3
- (c) 12:5
- (d) 13: 4

ANS = B

3. The age of 'E' is twice the age of 'S'. To find out the difference in their ages, which of the following information is/are sufficient? [CAPF – 2015]

- 1. After five years, the ratio of their ages would be 9: 5
- 2. Before ten years, the ratio of their ages was 3: 1

- (a) Only 1
- (b) only 2
- (c) Either 1 or 2
- (d) Both 1 and 2

ANS = C

SIMPLE AND COMPOUND INTREST

1. What is the **real interest rate** on a Credit Card loan bearing 24% interest per year, if the rate of inflation is 10 %? [CAPF- 2019]

- (a) 240%
- (b) 34%
- (c) 14%
- (d) 4%

ANS = C

2. The difference between the compound interest and the simple interest for 2 years on a sum of money is Rs. 60. If the simple interest for 2 years is [CAPF – 2017]

- (a) $4 \frac{1}{6}$ %
- (b) $6 \frac{1}{4}$ %
- (c) 8 %
- (d) $8 \frac{1}{3}$ %

ANS = D

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Time and work / Work and wages AND Pipes and cisterns

1. Two pipes A and B can fill a tank in 12 minutes and 16 minutes respectively. If both the pipes are opened together, then after how much time, B should be closed so that the tank is full in 9 minutes? [CAPF – 2017]

- (a) $3\frac{1}{2}$ min
- (b) 4 min
- (c) $4\frac{1}{2}$ min
- (d) $4\frac{3}{4}$ min

ANS = B

'A' completes a work in 10 days, while 'B' and 'C' complete it in 12 and 15 days respectively. In how many days can 'A', 'B' and 'C' together complete the work ?

- (a) 3
- (b) 4
- (c) 5
- (d) 5

ANS = B

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PROFIT AND LOSS, MIXTURE AND ALLIGATION

1. By selling an article for 2700, a man loses 10%. If he sells it for 3600, his gain per cent is [CAPF – 2019]

- (a) 15
- (b) 18
- (c) 20
- (d) 25

ANS = C

2. A king ordered to make a crown from 8kg of gold and 2 kg of silver. The goldsmith took away some amount of gold and replaced it by an equal amount of silver and the crown when made, weighed 10 kg. The king knows that under water gold loses $\frac{1}{20}$ th of its weight, while silver loses $\frac{1}{10}$ th. When the crown was weighed under water, it was 9.25 kg. How much gold was stolen by the goldsmith? [CAPF – 2018]

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

ANS = C

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Time speed and distance, Boats and streams AND Trains

1. Two men set out at the same time to walk towards each other from point A and B; 72 km apart. The first man walks at the speed of 4 kmph while the second walks 2 km in the first hour, 2 ½ km in the second hour, 3 km in the third hour, and so on. The two men will meet [CAPF – 2018]

- (a) in 8 hours
- (b) Nearer to 'A than B
- (c) Nearer to B than A
- (d) Midway between A and B

ANS = D

2. A vehicle with mileage 15 km litre hour contain 2 L of fuel. the vehicle gets some defect as a result of which 5 L of fuel gets wasted per hour when the engine is on. With what minimum speed the vehicle has to move to travel 20km with the existing amount of fuel, if it travels with a uniform speed? [CAPF – 2016]

- (a) 100 km per hour
- (b) 120 km per hour
- (c) 150 km per hour
- (d) 200 km per hour

ANS = C

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MISCELLANEOUS

1. A, B, C, D, E and F compared their marks in an examination and found that A obtained the highest marks, B obtained more marks than D, C obtained more than at least two others and E had not obtained the lowest marks. [CAPF - 2017]

Consider the following statements:

Statement 1: At least two members obtained less marks than c

Statement 2: E and F obtained the same marks

Which of the above statement(s) is/are sufficient to identify the one with the lowest marks?

- (a) Both 1 and 2
- (b) Neither 1 nor 2
- (c) 1 only
- (d) 2 only

ANS = D

2. A triangle is formed with vertices (0, 0), (0, 100) and (100,100). What is the number of points inside the triangle with integer coordinates? [CAPF - 2016]

- (a) 5000
- (b) 4999
- (c) 4851
- (d) 4800

ANS = C

3. There are two boxes. Box I contains one white card and two black cards and box II contains one white card and a black card. Two persons P and Q play a game. P picks a card randomly from box I. If P finds the white card, P wins and the game stops. If P finds the black card, Q draws a card randomly from box II. If Q finds the white card Q wins. The game stops whether Q draws the white card or the black card. Which one of the following is correct? [CAPF - 2016]

- (a) If P loses, Q wins
- (b) If Q loses, P wins
- (c) Both P and Q may win

(d) Both P and Q may lose

ANS = D

4. CAPF - 2016

Suppose R is the region bounded by the two curves $Y = x^2$ and $Y = 2x^2 - 1$ as shown in the following diagram :



Two distinct lines are drawn such that each of these lines partitions the regions into at least two parts. If 'n' is the total number of regions generated by these lines, then :

- (a) 'n' can be 4 but not 3
- (b) 'n' can be 4 but not 5
- (c) 'n' can be 5 but not 6
- (d) 'n' can be 6

ANS = D

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Reasoning section

Reasoning

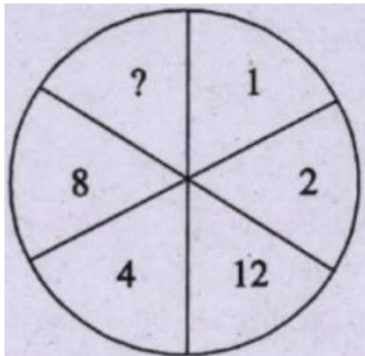
| Serial no. | Topics | No. Of question |
|------------|--|-----------------|
| 1 | Series and missing number | 6 |
| 2 | Venn diagram and syllogism | 5 |
| 3 | cube and dice and miscellaneous | 5 |
| 4 | Clock and calendar | 4 |
| 5 | Counting of figures and Direction | 4 |
| 6 | Classification | 3 |
| 7 | Analogy | 2 |
| 8 | Coding and decoding | 2 |
| 9 | Sitting arrangement and blood relation | 2 |

SERIES AND MISSING NUMBER

1. The next term of the series BCYX, EFVU, HISR, KLPO, is [CAPF – 2019]

- (a) NOML
- (b) NOLM
- (c) ONML
- (d) ONLMANS = A

2. Consider the following figure



Find out the missing number from among the following:

- (a) 12
- (b) 16
- (c) 32
- (d) 48

ANS = D

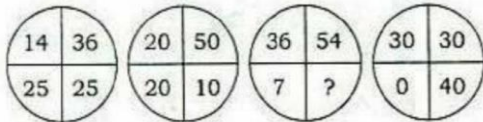
3. Consider the following series: 1, 9, 17, 33, 49, 73, ... Identify the missing number from the following: [CAPF – 2019]

- (a) 99
- (b) 97
- (c) 95
- (d) 91

ANS = B

4. CAPF - 2018

19. Consider the following diagrams :



Which one of the following is the missing number in the diagrams given above?

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

ANS = C

5. CAPF - 2016

Consider the following sequence:

0, 6, 24, 60, 120, 210

Which one of the following numbers will come next in the sequence ?

- (a) 240
(b) 290
(c) 336
(d) 504

ANS = C

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6. CAPF - 2016

Which one of the following is the *wrong* number in the series 6, 14, 30, 64, 126 ?

- (a) 126
- (b) 64
- (c) 14
- (d) 6

ANS = B

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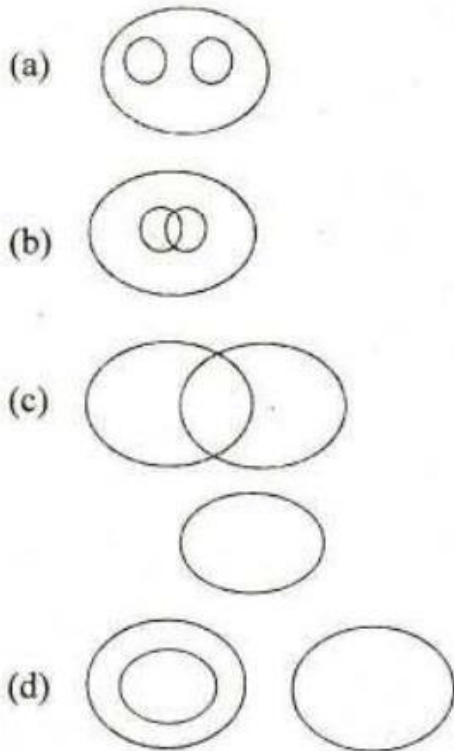
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Vein diagram and syllogism

1. Which one of the following figures correctly represents the relations between Jupiter, Mars and Planets? CAPF - 2016



ANS = A

2. Consider the following. statements and conclusions.

Statements: Mohan is a good sportsman. Sportsmen are healthy. CAPF - 2016

Conclusions

I. All healthy persons are sportsmen. II. Mohan is healthy.

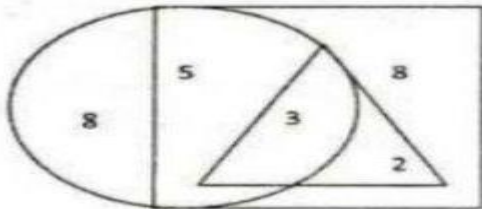
Which one of the following is correct?

- (a) Only Conclusion I follow
- (b) Only Conclusion II follows
- (c) Both Conclusions I and II follow
- (d) Neither Conclusion I nor II follows

ANS = B

3. CAPF – 2016

In the diagram given below, there is a circle, a square and a triangle dividing the region into five disjoint bounded areas. Each of these areas are labelled with number of players belonging to that area. The circle contains cricketers, the square contains football players and the triangle contains hockey players.



Which one of the following is *not* correct?

- (a) Every hockey player plays football
- (b) Every cricket player plays either football or hockey
- (c) There are some hockey players who play both cricket and football
- (d) There are some football players who play neither cricket nor hockey

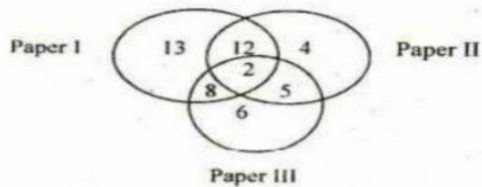
ANS = B

4. CAPF – 2016

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The number of persons reading newspaper is shown in the following Venn Diagram (Survey of 50 persons) :



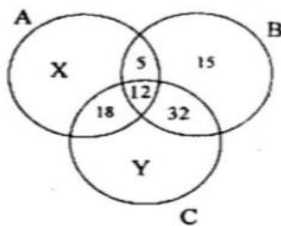
In a population of 10000, what is the number of persons expected to read at least two newspapers ?

- (a) 5000
- (b) 6000
- (c) 6250
- (d) 5400

ANS = D

5. CAPF - 2015

Consider the following diagram :



If the number of elements in 'A' is twice the number of elements in 'B', then X is :

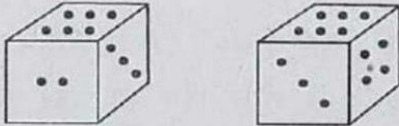
- (a) 78
- (b) 93
- (c) 94
- (d) 108

ANS = B

Word formation, cube and dice and miscellaneous

1. CAPF - 2017

Two positions of a dice with 1 to 6 dots on its side are shown below :



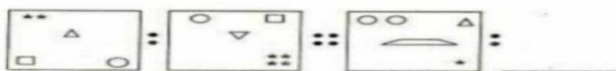
If the dice is resting on the side with three dots, what will be the number of dots on the side at the top ?

- (a) 1
- (b) 1 or 5
- (c) 5
- (d) 2 or 5

ANS = B

2. CAPF - 2016

14. Consider the following :



Which one of the following figures will come in the blank space ?

- (a)
- (b)
- (c)
- (d)

ANS = B

3. CAPF - 2016

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Given below is a figure of a square transparent sheet with a pattern :



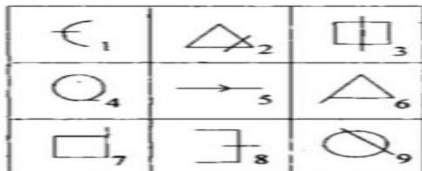
Which one of the following is the correct figure showing how the pattern would appear after folding the above mentioned transparent sheet at the dotted line ?

- (a)
- (b)
- (c)
- (d)

ANS = A

4. CAPF - 2015

Consider the following figures :



Which of the following group(s) of figures fit/fits into the same class ?

- (1, 7, 8)
- (4, 5, 6)
- (2, 3, 9)

Select the correct answer using the code given below :

- (a) 1 and 2 only
(b) 2 and 3 only
(c) 1, 2 and 3
(d) 3 only

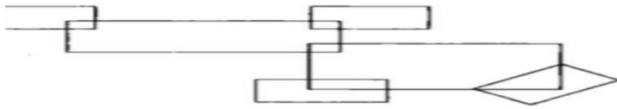
ANS = D

5. CAPF - 2015


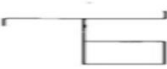


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Consider the following pattern :



The embedded figure in the given pattern is :

- (a) 
- (b) 
- (c) 
- (d) 

ANS = D

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CLOCK AND CALENDAR

1. If the first day of the year (other than the leap year) was Sunday, then which was the last day of that year? CAPF - 2019

- (a) Monday
- (b) Sunday
- (c) Saturday
- (d) None of these

ANS = B

2. At what time between 2 0'clock and 3 0'clock will the hour and minute hands of a clock be 12 minutes division apart? [CAPF -2018 / CAPF – 2015]

- (a) 12 minutes past 2 0'clock
- (b) 18 minutes past 2 0'clock
- (c) 24 minutes past 2 0'clock
- (d) 30 minutes past 2 0'clock

ANS = C

3. The angle between the hour hand and the minute hand of a clock at 10 minutes past 3 is [CAPF – 2018]

- a. 30 degree
- b. 35
- c. 37.5
- d. 40

ANS = B

4. 29th February of the year 2000 was Tuesday. After this date how many times 29th February falls on Tuesday in the whole century? CAPF - 2015

- (a) 3
- (b) 4

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(c) 5

(d) 6

ANS = A



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Counting of figures and Direction

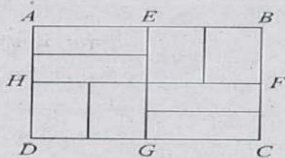
1. A walks 10 meters in front and 10 meters to the right. Then every time turning to his left, he walks 5, 15 and 15 meters respectively. How far is he now from his starting point? CAPF - 2019

- (a) 55 meters
- (b) 23 meters
- (c) 5 meters
- (d) None of these

ANS = C

2. CAPF - 2017

Consider the following figure :



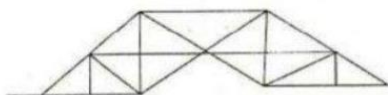
What is the number of rectangles which are not squares in the above figure ? (Given that $ABCD$ is a square and E, F, G, H are mid-points of its sides)

- (a) 14
- (b) 16
- (c) 20
- (d) 21

ANS = B

3. CAPF - 2016

Consider the following figure :



Which one of the following is the number of triangles in the figure given above ?

- (a) 22
- (b) 27
- (c) 28
- (d) 29

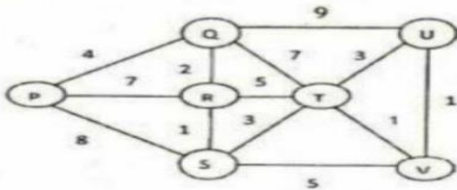
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ANS = B

4. CAPF - 2016

Consider the following diagram (not in scale) :



There are seven places marked as P, Q, R, S, T, U and V as shown in the diagram. The directly connected paths between two places are indicated by line segments joining the two places along with the length labelled in km. Then, the shortest distance between P and U is :

- (a) 14 km
- (b) 15 km
- (c) 12 km
- (d) 13 km

ANS = C

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CLASSIFICATION

1. In this item, four words have been given, out of which three are alike in some manner and the fourth one is different. Choose the odd one out. CAPF - 2019

- (a) Friendship
- (b) Intimacy
- (c) Attachment
- (d) Enmity

ANS = D

2. which one of the following is different from the remaining three ?CAPF - 2016

- (a) Triangle
- (b) square
- (c) circle
- (d) ellipse

ANS = A

3. Which one of the following series of letters follows a pattern and is different from the rest ?

CAPF - 2015

- (a) ADHMSZ
- (b) BEJNQX
- (c) DGKPUY
- (d) CFIOSZ

ANS = A

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ANALOGY

1. If $5472=9$, $6342 = 6$, and $7584 = 6$ then what is 9236 ? CAPF - 2019

- (a) 2
- (b) 3
- (c) 4
- (d) 5

ANS = A

2. If $2[3]4=14$ and $3 [4] 6 = 60$, $4 [5] 7=?$ CAPF - 2019

- (a) 72
- (b) 84
- (c) 96
- (d) 108

ANS = C

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CODING AND DECODING

1. If in a certain language GAMBLE is coded as FBLCKF, how is FLOWER coded in that languageCAPF - 2019

- (a) GMPVDS
- (b) GKPVFQ
- (c) EMNXDS
- (d) EMNTDS

ANS = C

2. If in a certain language NEOMAN is coded as OGRQFT, then ZKCLUP is the code of:

CAPF - 2015

- (a) YJBKTO
- (b) YIZHPJ
- (c) YIAQKJ
- (d) YIZIRM

ANS = B



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SITTING ARRANGEMENT AND BLOOD RELATION

1. There are five friends - Sachin, Kunal, Mohit, Amit and Sohan. Sachin is shorter than Kunal but taller than Sohan. Mohit is the tallest. Amit is little shorter than Kunal and little taller than Sachin. If they stand in the order of increasing heights, who will be the third

CAPF - 2019

- (a) Amit
- (b) Sohan
- (c) Sachin
- (d) Kunal

ANS = A

2. If M is brother of N, B is brother of N and M is brother of D, then which one of the following statements is definitely true [CAPF – 2019]

- (a) N is brother of B
- (b) N is brother of M
- (c) N is brother of D
- (d) M is brother of B

ANS = D