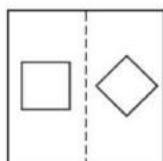


# Previous Years Paper

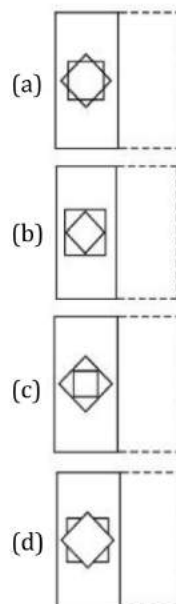
27<sup>th</sup> May 2023 (Shift -1)

- Q1.** Who appoints the chairman of the Union Public Service Commission?  
 (a) Prime Minister  
 (b) President  
 (c) Speaker of the Lok Sabha  
 (d) Home Minister
- Q2.** In which year "Panchayati Raj" was passed in Lok Sabha and Rajya Sabha?  
 (a) 1985 (b) 1989  
 (c) 1992 (d) 1995
- Q3.** World population day is celebrated on:  
 (a) 11 July (b) 11 June  
 (c) 10 July (d) 05 June
- Q4.** Who is the author of the book "Speed Post"?  
 (a) Anita Nayyar (b) Anita Desai  
 (c) Ritu Beri (d) Shoba De
- Q5.** The letters L, M, N, O, P, Q, R, S, T in their order is substituted by nine integers 1 to 9 in that order. 4 is assigned to P. The difference between P and T is 5. The difference between N and T is 3. What is the integer assigned to N?  
 (a) 7 (b) 6  
 (c) 5 (d) 4
- Q6.** Who amongst the following was awarded the Nobel Prize in Medicine in 1968 for the interpretation of genetic code and its function in protein synthesis?  
 (a) Dr. C. V. Raman  
 (b) Har Gobind Khorana  
 (c) S Chandrasekhar  
 (d) V. S. Naipaul
- Q7.** In the given question find the water image of the word "FAMILY".  
 (a) EVWITΛ  
 (b) EVMITΛ  
 (c) EVWITΛ  
 (d) JVWITΛ
- Q8.** Which of the following belongs to 'Harappan Culture'?  
 (a) Bronze Age  
 (b) Copper Age  
 (c) Iron Age  
 (d) Strong Age



**Q9.**

Choose the correct option (figure) after folding the figure along the dotted line.



- Q10.** If 3 men or 9 boys can finish a work in 21 days, then in how many days can 5 men and 6 boys finish the same work?  
 (a) 7 (b) 9  
 (c) 11 (d) 13
- Q11.** The area of the largest circle, that can be drawn inside a rectangle with sides 63 cm and 42 cm is ( $\pi = \frac{22}{7}$ )  
 (a) 1386 cm<sup>2</sup> (b) 1586 cm<sup>2</sup>  
 (c) 1786 cm<sup>2</sup> (d) 1986 cm
- Q12.** You are alone in the house and there is danger of thieves around. Just then, you hear a knock at door. You would  
 (a) open the door to see who is there.  
 (b) first peep out from the window to confirm whether you know the person  
 (c) not open the door.  
 (d) ask the servant to see who is there
- Q13.** If  $A : B = \frac{1}{2} : \frac{5}{8}$ ,  $B : C = \frac{1}{3} : \frac{4}{5}$  and  $C : D = \frac{3}{4} : \frac{5}{16}$  then the ratio A : B : C : D is:  
 (a) 4 : 5 : 3 : 12  
 (b) 4 : 12 : 3 : 5  
 (c) 4 : 5 : 12 : 5  
 (d) 4 : 12 : 5 : 3
- Q14.** XY  $\Rightarrow$  Delete the last letter,  
 YZ  $\Rightarrow$  Replace the fourth letter with next in the alphabet,  
 ZX  $\Rightarrow$  Reverse the whole sequence of the letters.  
 Then LOGICAL  $\Rightarrow$  XY  $\rightarrow$  YZ  $\rightarrow$  ZX  $\rightarrow$  ?  
 (a) ACLOJG (b) ACOJGL  
 (c) ACJGOL (d) ACGJOL

**Q15.** Mohit is 15<sup>th</sup> from the right end in a row of 49 boys. What is his position from left end?

- (a) 35 (b) 26  
(c) 27 (d) 20

**Q16.** If A ( $2a + 3b$ ,  $a + 6b$ ) and B ( $3a + 4b$ ,  $2a + 5b$ ) are two points, then distance between the points A and B is:

- (a)  $2(a + b)$  (b)  $\sqrt{2}(a^2 - b^2)$   
(c)  $2ab$  (d)  $\sqrt{2}(a^2 + b^2)$

**Q17.** The average of four numbers is 40. If the first number is one-third of the sum of the remaining numbers, then the first number is

- (a) 35 (b) 50  
(c) 30 (d) 40

**Q18.** Pointing to a woman, Venus said, "She is the daughter of the only child of my grandmother." How is the woman related to Venus?

- (a) Wife (b) Niece  
(c) Sister (d) Cousin

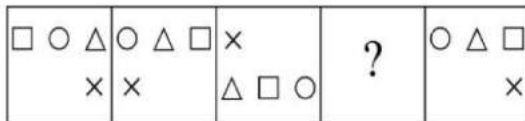
**Q19.** Which of these numbers 6400, 125, 261 and 4913 is not a perfect cube?

- (a) 6400 (b) 125  
(c) 9261 (d) 4913

**Q20.** A stone statue of priest king has been found from:

- (a) Harappa  
(b) Mohenjo Daro  
(c) Kalibangan  
(d) Dholavira

**Q21.**



Which one of the four answers figure would come at the place of the question mark?

- (a) 

|       |
|-------|
| □ ○ ▽ |
| ×     |

  
(b) 

|       |
|-------|
| ×     |
| △ ○ □ |

  
(c) 

|       |
|-------|
| ×     |
| □ ○ △ |

  
(d) 

|       |
|-------|
| ×     |
| □ ○ △ |

**Q22.** Starting from point A Tianna moves 20m till point C in north east direction before turning to her right. She walks 20m again turning to her right stopping at point B. How far is point A from point B.

- (a)  $20\sqrt{2}m$  (b)  $10\sqrt{2}m$   
(c)  $20m$  (d)  $10m$

**Q23.** In a  $\triangle ABC$  right angled at B. if  $BC = 4$  cm and  $\angle C = 60^\circ$ , then length of AC is:

- (a)  $8\sqrt{3}cm$  (b)  $\frac{8}{\sqrt{3}}$   
(c) 6 cm (d) 8 cm

**Q24.** \_\_\_\_\_ is the heaviest gas.

- (a) Radon gas (b) Carbon Monoxide  
(c) Sulphur Dioxide (d) Nitrogen Oxide

**Q25.** If in a certain code, ALMIRAH is written as BNPMWGO, which would be written as DNRWLUA?

- (a) COSGOLT  
(b) TOGSOLC  
(c) TOGCLOS  
(d) CLOSGOT

**Q26.** One litre of water is added to 5 litres of alcohol-water solution having 40% alcohol strength. The strength of alcohol in the new solution will be

- (a) 33% (b)  $33\frac{1}{3}\%$   
(c)  $33\frac{2}{3}\%$  (d) 30%

**Q27.** The mean of observations is 43. Later, it was found that 59 was misread as 69. What would be the correct mean? (correct to two decimal places)

- (a) 44.11  
(b) 41.89  
(c) 42.11  
(d) 43.89

**Q28.** Which gas is used for the manufacturing of Bleaching Powder?

- (a) Fluorine gas (b) Chlorine gas  
(c) Bromine gas (d) Iodine gas

**Q29.** Which of the following mountain Railways are part of UNESCO'S world Heritage site?

- A. Darjeeling Himalayan Railways  
B. Nilgiri mountain Railways  
C. Kalka - Shimla Railways  
D. Mumbai to Thane Railways

Choose the correct answer from the options given below:

- (a) A only (b) A, B only  
(c) A, B, C only (d) A, B, C, D

**Q30.** 44% of 80% of a number is 6864. What will be 15% of that number?

- (a) 2288 (b) 2882  
(c) 2925 (d) 2952

**Q31.** In the given question, arrange the given words in the sequence occur in the dictionary.

- (A) Wound  
(B) Writer  
(C) Whiter  
(D) Worst  
(E) Worked  
(a) A, D, C, E, B  
(b) B, A, C, D, E  
(c) C, E, D, A, B  
(d) E, C, B, A, D

**Q32.** A ladder leans against a vertical wall. End of the ladder is 8 m above the ground. When the lower end of the ladder is moved 2 m farther away from

the wall, the other end of the ladder rests against the foot of the wall. The length of the ladder is:

- (a) 10 m (b) 15 m  
(c) 30 m (d) 17 m

**Q33.** Two dice are thrown simultaneously. What is the probability that the sum of the two numbers is 4?

- (a)  $\frac{1}{11}$  (b)  $\frac{1}{12}$   
(c)  $\frac{1}{13}$  (d)  $\frac{1}{14}$

**Q34.** The temple not built by Krishna Deva Raya (70 AD-1529) is:

- (a) Vijaya Mahal  
(b) Hazara Rama Temple  
(c) Sun Temple  
(d) Vitthal Swami Temple

**Q35.** How many degrees does the minute hand cover in the same time in which the seconds hand cover  $180^\circ$ .

- (a) 18 (b) 6  
(c) 3 (d) 180

**Q36.** In a 2-digit number unit's digit is 5 more than the ten's digit. If 5 times the given number is 24 more than two times the number obtained by interchanging the digits of the given number, then the given number is:

- (a) 16 (b) 27  
(c) 38 (d) 49

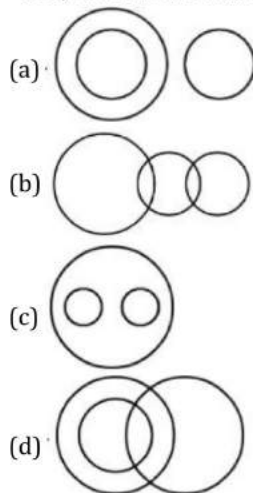
**Q37.** Where is the 'Indian grape processing Board' located?

- (a) Bengaluru (Karnataka)  
(b) Kottayam (Kerala)  
(c) Pune (Maharashtra)  
(d) Kochi (Kerala)

**Q38.** The chairman of Drafting Committee of the constitution was:

- (a) Dr. Rajendra Prasad  
(b) Dr. B.R. Ambedkar  
(c) Dr. Zakir Hussain  
(d) Pt. Jawahar Lal Nehru

**Q39.** Which of the following shows the relation between Sun, Earth and Universe?



**Q40.** Find the area of four walls of a room having length 12.5 m, breadth 9 m and height 7 m

- (a)  $289 \text{ m}^2$  (b)  $300 \text{ m}^2$   
(c)  $307 \text{ m}^2$  (d)  $301 \text{ m}^2$

**Q41.** If principal amount is P and rate of interest is R% per annum, then what is the difference between simple interest and compound interest for 2 years?

- (a)  $\frac{PR}{100}$  (b)  $\frac{2PR}{100}$   
(c)  $\frac{PR^2}{(100)^3}$  (d)  $\frac{PR^2}{100}$

**Q42.** If the radius of a sphere is increased by 50%. then its surface area will increase by:

- (a) 25% (b) 125%  
(c) 150% (d) 50%

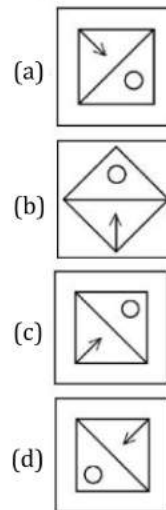
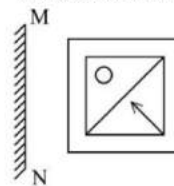
**Q43.** \_\_\_\_\_ satellite was launched on 29th March 2018 from Srihari Kota with the help of PSLV-C40 launch vehicle.

- (a) DMC3 (b) SARAL  
(c) Cartosat-2 (d) Rohini RS-1

**Q44.** In the year 1996, the republic day was celebrated on Friday. On which day the Independence Day was celebrated in the year 2000?

- (a) Monday (b) Tuesday  
(c) Sunday (d) Friday

**Q45.** Choose the correct mirror image of the given figure, where mirror is represented by a line MN.



**Q46.** Find the mean proportional between 18 and 72.

- (a) 36 (b) 45  
(c) 90 (d) 72

**Q47.** How many '7's are preceded by 9 and followed by 6 in the given series?

- 7, 8, 9, 7, 6, 5, 3, 4, 2, 8, 9, 7, 2, 4, 5, 9, 2, 9, 7, 6, 4, 7  
(a) 5 (b) 4  
(c) 3 (d) 2

**Q48. Statements:**

1. Dogs do not bark on the arrival of friends of the family
2. When A entered B's house, B's dog started barking.

**Conclusion:** A is B's enemy.

The conclusion drawn is:

- (a) Follows from the given statements.  
 (b) Is probably true.  
 (c) Does not follow from the given statements.  
 (d) Is probably false.
- Q49.** Five girls sitting in a row. Raashi is not adjacent to Grace or Adhya. Anu is not adjacent to Grace. Raashi is adjacent to Venus. Venus is at the middle in the row. Then Anu is adjacent to whom?  
 (a) Raashi (b) Grace  
 (c) Aadhya (d) Venus
- Q50.** Which of the following is not in the UNESCO's world Heritage site of India?  
 (a) Sum Temple, Konark (b) Elephanta Caves  
 (c) Western Ghats (d) Golkonda Fort
- Q51.** If in a certain code, the word MILITARY is written as 01213456, then in the same code the word MAIL will be written as  
 (a) 0312 (b) 0412  
 (c) 4012 (d) 0124
- Q52.** In the given question the figure (X) is followed by four alternative figures such that figure (X) is embedded in one of them. Trace out the alternative figures which contains figure (X) as it's part.

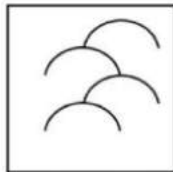
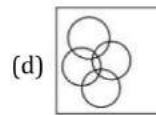


Figure (X)

- (a)   
 (b)   
 (c)



(d)

- Q53.** 'Sardar Sarovar Dam' is built on which river?  
 (a) Sutlej (b) Kaveri  
 (c) Narmada (d) Yamuna
- Q54.** If  $2x$ ,  $x + 4$  and  $x + 1$  are in A.P., then the value of  $x$  is:  
 (a) 6 (b)  $6\frac{1}{2}$   
 (c) 7 (d) 8
- Q55.** Which of the following are true regarding Supreme Court of India?  
 A. Its decision are binding on all Courts  
 B. Can transfer judges of High Courts  
 C. Can move cases from any court to itself  
 D. Can deal with cases within the jurisdiction of the state  
 Choose the most appropriate answer from the options given below:  
 (a) A, B only (b) C, D only  
 (c) A, B, C only (d) A, B, C, D
- Q56.** The commander of the Armed Force in India is:  
 (a) Prime Minister  
 (b) President  
 (c) Defence Minister  
 (d) Chief Justice of the supreme court
- Q57.** Difference in the place values of 3 used at two places in the number 934530 is:  
 (a) 29970 (b) 30070  
 (c) 29570 (d) 29990
- Q58.** The speed of a train is 88 km/h. How much time will it take to cross a 180 m long platform if length of the train is 150 m?  
 (a)  $11\frac{1}{2}$  s (b)  $10\frac{1}{2}$  s  
 (c)  $13\frac{1}{2}$  s (d)  $14\frac{1}{2}$  s
- Q59.** The Indian giant who got maximum Grammy Award is:  
 (a) Pt. Ravi Shankar  
 (b) Zakir Hussain  
 (c) Zubin Mehta  
 (d) A. R. Rehman
- Q60.** Who is the author of book "Unhappy India"?  
 (a) M. K. Gandhi  
 (b) Lala-Lajpat Rai  
 (c) Vijay Tendulkar  
 (d) Swami Shivanand

## SOLUTIONS

**S1. Ans. (b)**

**Sol.** The Chairman and other members of the Union Public Service Commission are appointed by the President of India. This is mentioned in Article 316 of the Indian Constitution.

**S2. Ans. (c)**

**Sol.** "Panchayati Raj" was passed in both Lok Sabha and Rajya Sabha during the year 1992.

**S3. Ans. (a)**

**Sol.** World Population Day is celebrated on 11th July every year to raise awareness about global population issues. The United Nations established this day in 1989.

**S4. Ans. (d)**

**Sol.** "Speedpost" is a book written by Shobha De.

**S5. Ans. (b)**

**Sol.** ATQ, P is assigned to 4.

Difference b/w P and T is 5, so T is 9

Difference b/w N and T is 3 so  $N = 9 - 3 = 6$

The integer assigned to N is 6.

Hence, 6 is the correct answer.

**S6. Ans. (b)**

**Sol.** Har Gobind Khorana was awarded the Nobel Prize in Medicine in 1968 for his work on the interpretation of the genetic code and its function in protein synthesis. He shared the prize with Robert W. Holley and Marshall W. Nirenberg.

**S7. Ans. (a)**

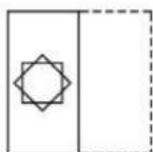
**Sol.** E V W I T A

**S8. Ans. (a)**

**Sol.** The Harappan civilization, also known as the Indus Valley Civilization, is often associated with the Bronze Age.

**S9. Ans. (a)**

**Sol.**



**S10. Ans. (b)**

**Sol.** Since 3 men or 9 boys do the work in 21 days, 1 man is equivalent to 3 boys.

The work involved is  $9 \times 21$  equivalent to 189 boy-days.

So, 5 men and 6 boys are the same as  $15 + 6 = 21$  boys. So, the time taken is  $189 \text{ boy-days} / 21 \text{ boys} = 9 \text{ days}$ .

**S11. Ans. (a)**

**Sol.** The diameter of the circle = breadth of the rectangle = 42 cm

Hence the radius of the circle =  $42/2 = 21 \text{ cm}$

The area of the circle =  $\pi r^2 = \frac{22}{7} \times 21 \times 21 = 1386 \text{ cm}^2$

**S12. Ans. (b)**

**S13. Ans. (c)**

**Sol.**  $A : B = \frac{1}{2} : \frac{5}{8} = 8 : 2$

$B : C = \frac{1}{3} : \frac{4}{5} = 5 : 12$

$C : D = \frac{3}{4} : \frac{5}{16} = 12 : 5$

$A : B : C : D = 4 : 5 : 12 : 5$

**S14. Ans. (c)**

**Sol.** Firstly, last letter will be deleted, so word would be 'LOGICA'

In the next step, 4<sup>th</sup> letter would be replaced by next alphabet, so word would become 'LOGJCA'

In the last step, word would be reversed. So final word would be 'ACJGOL'.

**S15. Ans. (a)**

**Sol.** Mohit's position from the left end =  $49 - 15 + 1 = 35$

**S16. Ans. (d)**

**Sol.** Distance formula =  $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} = \sqrt{(3a + 4b - 2a - 3b)^2 + (2a + 5b - a - 6b)^2} = \sqrt{(a + b)^2 + (a - b)^2} = \sqrt{2(a^2 + b^2)}$

**S17. Ans. (d)**

**Sol.** Let the first number be a

Sum of all four numbers =  $4 \times 40 = 160$

$a = \frac{1}{4}(160 - a)$

$a = 40$

**S18. Ans. (c)**

**Sol.** Daughter of only child of Venus' Grandmother - Venus' mother's daughter or Venus' father's daughter. In both cases woman will be sister of Venus.

**S19. Ans. (a)**

**Sol.** 6400 is not a perfect cube.

**S20. Ans. (b)**

**Sol.** The stone statue of the Priest King was found in Mohenjo Daro.

**S21. Ans. (c)**

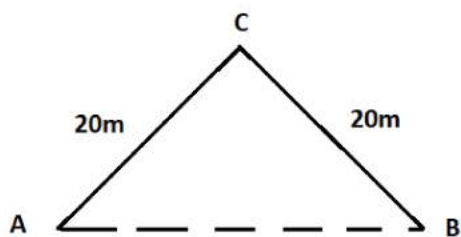
**Sol.** In every step center element comes to extreme left end. Similarly, the element at right end comes in center and element at left end goes to right end. After every two steps three elements comes downwards and single element moves upwards.



**S22. Ans. (a)**

**Sol.**

Required Distance =  $AB = \sqrt{20^2 + 20^2} = 20\sqrt{2} \text{ m}$



S23. **Ans. (a)**

**Sol.**  $\cos 60^\circ = \frac{BC}{AC}$   
 $\frac{\sqrt{3}}{2} = \frac{4}{x}$   
 $AC = 8\sqrt{3}$

S24. **Ans. (a)**

**Sol.** Radon gas is the heaviest gas. Radon is a radioactive gas that is colorless, odorless, and tasteless.

S25. **Ans. (d)**

**Sol.** The first, second, third, fourth, fifth, sixth and seventh letters in the code are respectively one, two, three, four, five, six and seven steps ahead of the corresponding word.

S26. **Ans. (b)**

**Sol.** 5 liters of alcohol-water solution containing 40% alcohol strength contains 2 liters alcohol. When 1 liter water is added, the mixture becomes 6 liters in volume. Hence, the strength of alcohol in the new solution will be  $= \frac{2}{6} \times 100 = 33\frac{1}{3}\%$

S27. **Ans. (b)**

**Sol.** Sum of observations  $= 9 \times 43 = 387$   
 Correct Sum  $= 387 + 59 - 69 = 377$   
 Correct Mean  $= \frac{377}{9} = 41.89$

S28. **Ans. (b)**

**Sol.** Chlorine gas is widely used in the manufacturing of bleaching powder.

S29. **Ans. (c)**

**Sol.** The Mumbai to Thane Railways are not part of UNESCO's World Heritage Site.

S30. **Ans. (c)**

**Sol.** Let number be 'x'  
 As per question,  $\frac{44}{100} \times \frac{80}{100} \times x = 6864$   
 $x = 19500$   
 Then 15% of  $x = x \times \frac{15}{100} = 2925$

S31. **Ans. (c)**

**Sol.** The dictionary sequence is  $C \rightarrow E \rightarrow D \rightarrow A \rightarrow B$  which is Whiter  $\rightarrow$  Worked  $\rightarrow$  Worst  $\rightarrow$  Wound  $\rightarrow$  Writer.

S32. **Ans. (d)**

**Sol.** Length of the ladder  $= x + 2$   
 Thus,  $8^2 + x^2 = (x + 2)^2$   
 Solving for  $x$ ,  $x = 15$   
 Length of ladder  $= 17$

S33. **Ans. (b)**

**Sol.** The set of possible outcomes when we roll a die are  $\{1, 2, 3, 4, 5, 6\}$

So, when we roll two dice there are  $6 \times 6 = 36$  possibilities. When we roll two dice, the possibility of getting number 4 is  $(1, 3)$ ,  $(2, 2)$ , and  $(3, 1)$ .

So, the number of favourable outcomes  $= 3$

Total number of possibilities  $= 36$

Probability  $= \frac{\text{The number of favourable outcomes}}{\text{Total number of possibilities}} = \frac{3}{36} = \frac{1}{12}$

S34. **Ans. (c)**

**Sol.** Sun Temple is not associated with Krishna Deva Raya or the Vijayanagara Empire.

S35. **Ans. (c)**

**Sol.** As we know that the second hand covers  $360^\circ$  in 1 minute i.e. in 60 seconds. So, the second hand covers  $180^\circ$  in  $= \frac{60}{360^\circ} \times 180^\circ = 30$  seconds. Also, we know that the minute hand covers  $6^\circ$  in 1 minute i.e. in 60 seconds. Therefore, the minute hand covers in 30 seconds  $= \frac{6^\circ}{2} = 3^\circ$ .

S36. **Ans. (c)**

**Sol.** Let 10's digit be  $x$  then 1's digit will be  $x + 5$ .  
 The number  $= 10x + x + 5 = 11x + 5$   
 Given,  $5(11x + 5) = 24 + 2(11x + 50)$   
 $55x - 22x = 100 + 24 - 25$   
 $x = 3$   
 Then given number is  $11 \times 3 + 5 = 38$ .

S37. **Ans. (c)**

**Sol.** The Indian Grape Processing Board (IGPB) is a statutory body established under the Ministry of Food Processing Industries, Government of India. It is headquartered in Pune, Maharashtra.

S38. **Ans. (b)**

**Sol.** Dr. B.R. Ambedkar, an eminent jurist, scholar, and social reformer, was the chairman of the Drafting Committee of the Constituent Assembly.

S39. **Ans. (c)**

**Sol.** Sun and Earth are different, but both are part of Universe.



S40. **Ans. (d)**

**Sol.** The area of four walls  $= 2(lh + bh) = 2(12.5 \times 7 + 9 \times 7) = 301 m^2$

S41. **Ans. (c)**

**Sol.** Simple interest for 2 years  $= \frac{2PR}{100}$   
 Compound interest for 2 years  $= P \left(1 + \frac{R}{100}\right)^2$   
 Difference  $= \frac{PR^2}{(100)^3}$

S42. **Ans. (b)**

**Sol.** Let the original radius be  $r$   
 So, the surface area of the sphere  $= 4\pi r^2 \dots (1)$   
 Since, the radius is increased by 50% then new radius  $= 1.5r$

Therefore the new surface area of the sphere will be  $= 4\pi(1.5)^2 = 2.25 \times 4\pi r^2 \dots(2)$   
 Therefore, the required percentage =  $\frac{2.25 \times 4\pi r^2 - 4\pi r^2}{4\pi r^2} \times 100 = 125\%$

**S43. Ans. (c)**

**Sol.** The satellite launched from Sriharikota on March 29th, 2018 with the help of the PSLV-C40 launch vehicle, Cartosat-2.

**S44. Ans. (b)**

**Sol.** The year 1966 was a Leap Year. Number of days remaining in the 1996.

$$= 366 - 26 = 340 \text{ days} = 48 \text{ weeks } 4 \text{ odd days.}$$

1997, 1998 and 1999 together have 3 odd days.

2000 was a Leap year.

$$\text{Days upto 15th August 2000} = 31 + 29 + 31 + 30 +$$

$$31 + 30 + 31 + 15 = 229 \text{ days. } \frac{228}{7} = 32 \text{ weeks } 4 \text{ odd}$$

days.

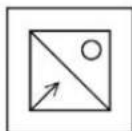
$$\text{Now, total number of odd days} = 4 + 3 + 4 = 11$$

$$\frac{11}{7} = 1 \text{ week } 4 \text{ odd days. 15th August 2000 was 4}$$

days beyond Friday. i.e., Tuesday.

**S45. Ans. (c)**

**Sol.**



**S46. Ans. (a)**

**Sol.**  $18 : x :: x : 72$

$$\frac{18}{x} = \frac{x}{72} \Rightarrow x^2 = 1296 \Rightarrow x = 36$$

**S47. Ans. (d)**

**Sol.** '7's are preceded by 9 and followed by 6 = **9, 7, 6**

Given series, 7, 8, **9, 7, 6**, 5, 3, 4, 2, 8, 9, 7, 2, 4, 5, 9, 2, **9, 7, 6**, 4, 7

Hence, correct answer is two.

**S48. Ans. (c)**

From the statement it is clear that dogs do not bark on the arrival of friends of the family, they only bark on the arrival of some first-time visitor or a stranger. So, it cannot be said that A is B's enemy. He might be a delivery boy or a person visiting B for the first time. Hence, the answer is option C.

**S49. Ans. (a)**

**Sol.** Two cases can be made from the given information, but in both the cases Anu is adjacent to Raashi.

|             |             |       |             |             |
|-------------|-------------|-------|-------------|-------------|
| Grace/Adhya | Grace/Adhya | Venus | Raashi      | Anu         |
| Anu         | Raashi      | Venus | Grace/Adhya | Grace/Adhya |

**S50. Ans. (d)**

**Sol.** Golkonda Fort is not a UNESCO World Heritage Site. The other three sites listed in the question are all UNESCO World Heritage Sites.

**S51. Ans. (b)**

Code for M  $\rightarrow$  0

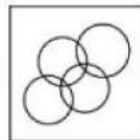
Code for A  $\rightarrow$  4

Code for I  $\rightarrow$  1

Code for L  $\rightarrow$  2

**S52. Ans. (c)**

**Sol.**



**S53. Ans. (c)**

**Sol.** The Sardar Sarovar Dam is built on the Narmada River in the state of Gujarat, India.

**S54. Ans. (d)**

**Sol.** Given,  $2x$ ,  $x + 4$  and  $x + 1$  are in A.P.

Then,

$$(x + 4) - 2x = (x + 1) - (x + 4)$$

$$x + 4 - 2x = x + 1 - x - 4$$

$$-x + 4 = -4$$

$$x = 8$$

**S55. Ans. (c)**

**Sol.** A, B, and C are true regarding Supreme Court of India.

**S56. Ans. (b)**

**Sol.** President is the commander of the Armed Force in India.

**S57. Ans. (a)**

$$\text{Sol. } 30000 - 30 = 29970$$

**S58. Ans. (c)**

$$\text{Sol. Speed of train in m/sec} = 88 \times \frac{5}{18} = 24.4$$

$$\text{Distance to cover} = 180 + 150 = 330 \text{ m}$$

$$\text{Time taken by train} = \frac{330}{24.4} = 13 \frac{1}{2} \text{ s}$$

**S59. Ans. (a)**

**Sol.** The Indian giant who got the maximum Grammy Awards is Pt. Ravi Shankar.

**S60. Ans. (b)**

**Sol.** "Unhappy India" is a book written by Lala Lajpat Rai, a prominent freedom fighter and leader of the Indian independence movement.