

# Home Assignment

## for SSC & Railways Aspirants

1. Who of the following has won the IBSF World Billiards Championship 2019 held in Mandalay, Myanmar?

- A. Nay Thway Oo
- B. Aditya Mehta
- C. Pankaj Advani
- D. Mike Russell
- E. Sourav Kothari

Ans. C

Sol.

- The Bengaluru-based cueist Pankaj Advani increased his tally of world titles to 22 by winning a 4th straight final in the 150-up format at IBSF World Billiards Championship 2019 held in Mandalay, Myanmar. Pankaj Advani defeated Nay Thway Oo of Myanmar.
- Pankaj Advani has brought home a world trophy every year ever since returning from a professional stint in the UK in 2014.
- In the short format of billiards, this is Advani's fifth title in the last six years.
- IBSF is the premier, international, non-professional tournament for game of English billiards.
- It was established in 1951 however, the event has been sanctioned by International Billiards and Snooker Federation since 1973.

2. Who of the following has won the men's singles title at Vietnam Open BWF Tour Super 100 badminton tournament at the Ho Chi Minh City?

- A. Kaushal Dharmamer
- B. **Sourabh Verma**
- C. Srikanth Kidambi
- D. Sai Praneeth B.
- E. Sameer Verma

Ans.B

Sol.

- India's **Sourabh Verma (26-year)** registered a thrilling three-game win over China's Sun Fei Xiang to claim the men's singles title at Vietnam Open BWF Tour Super 100 badminton tournament at the Ho Chi Minh City.
- **Sourabh Verma** (Madhya Pradesh) recovered from a **mid-game slump** to beat Sun **21-12, 17-2, 21-14**.

- This victory marks **Verma's second Super 100** win in the ongoing calendar year.

- Earlier, he had won the **Hyderabad open** and **Slovenian International** earlier this year,
- The **2019 Vietnam Open** is the seventh Super 100 tournament of the 2019 BWF World Tour and also part of the Vietnam Open championships.
- This tournament is organized by the **Ho Chi Minh City Badminton** Association and sanctioned by the BWF.

3. What is the theme of the World Ozone Day 2019?

- A. Keep Cool and Carry On
- B. '32 years and Healing'
- C. Ozone and climate: Restored by a world united
- D. Ozone Layer Protection: The Mission Goes On
- E. None of these

Ans.B

Sol.

- \* September 16 is celebrated as World Ozone Day every year.
- \* Its aim is to make people aware of the world around the world from the harmful ultraviolet rays of the Sun and the ozone layer that protects our lives.
- \* The theme of this year i.e. World Ozone Day 2019 is '32 years and Healing'. Through this theme, the three-decades effort to protect the ozone layer and protect the climate will be reflected by countries around the world under the Montreal Protocol.

4. President Ram Nath Kovind has inaugurated a bronze bust of Mahatma Gandhi in which of the following countries?

- A. Switzerland
- B. Iceland
- C. Slovenia
- D. Slovakia
- E. Hungary

Ans.A

Sol.

- President Ram Nath Kovind has inaugurated a bronze bust of Mahatma Gandhi in Villeneuve in Switzerland.
- After unveiling the statue, President Kovind said Mahatma Gandhi's ideology

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of ahimsa, peace and living in harmony with nature is relevant even today.

- The President is on a five- day visit to Switzerland to boost business and cultural ties.
- The bust was unveiled to mark the visit of Mahatma to Villeneuve in 1931.
- The idol sculpted by Ram Vanaji Sutar is placed on a high pedestal made of sandstone extracted from Switzerland.

5. South Asia's tallest tower called 'Lotus Tower' has been unveiled in which of the following countries?

- A. Pakistan                      B. Maldives  
C. Sri Lanka                      D. Myanmar  
E. India

Ans.C

Sol.

\* Sri Lanka has unveiled South Asia's tallest tower called 'Lotus Tower' in Colombo.

\* The Lotus Tower (17-storey) is spread over an area of 30,600 sq. meters, with a height of 350-meter and overall cost, is above USD 100 million.

\* The Lotus Tower will function as a TV tower, a hotel, a shopping mall, and a conference center.

Note:

\* In 2012, Sri Lanka and China signed the Lotus Tower agreement to build the tower, with China National Electronics Import and Export Corporation being the general contractor.

6. A boy bought two bicycles at Rs. 2000 each. He sold one at 10% loss and another at 20% profit. What is his overall profit?

- A. Rs. 150                      B. Rs. 200  
C. Rs. 375                      D. Rs. 400

Ans.B

Sol.

Overall Profit = profit on second cycle - loss on first cycle  
= 20% of 2000 - 10 % of 2000 = 400 - 200 = Rs. 200

**Short Trick:**

$$\text{Profit} = 2000 \times \frac{20-10}{100} = 200$$

7. Find length of the arc whose central angle is  $90^\circ$  and radius of the circle is 3.5 cm?

- A. 11 cm                      B. 5.5cm  
C. 16.5 cm                      D. 22 cm

Ans.B

Sol.  $l = r \times \theta$

here  $l$  = length of arc

$r$  = radius of circle

$\theta$  = central angle

$\theta = 90^\circ = \pi/2$

$$l = 3.5 \times \frac{\pi}{2} = \frac{3.5 \times 22}{2 \times 7} = \frac{77}{14} = 5.5 \text{ cm}$$

hence length of arc = 5.5 cm

8. The difference between CI and SI for 3 years @20% p.a . is Rs. 152 . What is the principal lent in each case?

- A. 1200                      B. 1155  
C. 1187.5                      D. 1167

Ans.C

Sol.

Difference between CI and SI for 3 years = Rs. 152

$$P \left( \frac{r}{100} \right)^2 \left( \frac{r}{100} + 3 \right) = 152$$

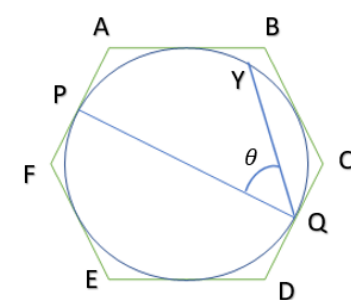
$$P \left( \frac{1}{25} \right) \left( \frac{16}{5} \right) = 152$$

$$P = \frac{152 \times 25 \times 5}{16}$$

$$P = 9.5 \times 25 \times 5 = 1187.5$$

9.  $ABCDEF$  is a regular hexagon of side  $a$ .  $P$  and  $Q$  are mid points of  $AF$  and  $CD$  respectively.  $Y$  is any point in incircle

such that  $QY = \frac{3}{2}a$ . Find the value of  $\theta$ ?



- A.  $60^\circ$                       B.  $45^\circ$   
C.  $30^\circ$                       D.  $50^\circ$

Ans.C

Sol. Since  $ABCDEF$  is a regular hexagon. We can easily

See that  $PQ$  is the largest line in the incircle (joining the midpoints of opposite sides) therefore is the diameter of incircle and  $PQ = 2r$

Where,  
 $r = \text{radius of incircle of hexagon}$

$$= \frac{\sqrt{3}}{2} a$$

$$PQ = 2r = \sqrt{3}a$$

Since  $PQ$  is the diameter if we join  $P$  and  $Y$  then  $\Delta PYQ$  will be right angled triangle with  $\angle Y = 90^\circ$  since it is made in half circle.

In  $\Delta PYQ$ ,

$$\cos \theta = \frac{QY}{PQ} = \frac{\frac{3}{2}a}{\sqrt{3}a} = \frac{\sqrt{3}}{2} = \cos 30^\circ$$

$$\theta = 30^\circ$$

10.

$$56457^{8765!} + 65432^{5487!} + 23451^{8765!}$$

find the unit digit.

- A. 4                      B. 9  
C. 2                      D. 3

Ans.B

Sol. All the values greater than  $4!$  are completely divided by 4. So in the given equation all the values  $8765!, 5487!, 8765!, 9634!$  are

completely divisible by 4. Hence unit digit will be  $7^4 + 2^4 + 1^4 + 3^4$

↓

$$1 + 6 + 1 + 1 = 9$$

Hence the unit digit = 9

11. If the sum of three numbers is 92. If the ratio of 1<sup>st</sup> and 2<sup>nd</sup> number is 3 : 4 and

the ratio of 1<sup>nd</sup> and 3<sup>rd</sup> number is 2 : 3. Find the second number

- A. 16                      B. 32  
C. 27                      D. 24

Ans.B

Sol. Given, the ratio of 1<sup>st</sup> and 2<sup>nd</sup> number is 3 : 4.

Let the 1<sup>st</sup> and 2<sup>nd</sup> number be 3a and 4a respectively.

Also, ratio of 1<sup>nd</sup> and 3<sup>rd</sup> number is 2 : 3.

$$\therefore 3^{\text{rd number}} = \frac{3}{2} \times 1^{\text{st number}} = \frac{9a}{2}$$

Given, sum of three numbers is 92

$$\therefore 3a + 4a + 4.5a = 92$$

$$\Rightarrow 11.5a = 92$$

$$\Rightarrow a = 8$$

$$2^{\text{nd number}} = 4a = 32$$

12. The greatest number among  $2^{60}, 4^{40}, 5^{20}, 6^{10}$  is

- A.  $2^{60}$                       B.  $4^{40}$   
C.  $5^{20}$                       D.  $6^{10}$

Ans.B

$$\text{Sol. } 2^{60} = (2^6)^{10} = (64)^{10}$$

$$4^{40} = (4^4)^{10} = (256)^{10}$$

$$5^{20} = (5^2)^{10} = (25)^{10}$$

$$6^{10} = (6)^{10} = (6)^{10}$$

$$\text{Gratest term} = 4^{40}$$

13. A least number of five digits when divided by 3, 6, 8 and 12 leaves the remainder as 2 in each case. Find the number:

- A. 10008                      B. 10010  
C. 10002                      D. 10012

Ans.B

Sol. Least number of five digits = 10000

$$\text{Lcm } (3, 6, 8, 12) = 24$$

When 10000 is divided by 24, the remainder is 16.

Least number of five digits divisible by 3, 6, 8 and 12 is

$$= 10000 + (24 - 16)$$

$$= 10008$$

Required number which when divided by 3, 6, 8 and 12 leaves remainder as 2

$$= 10008 + 2 = 10010$$

14. |||Common||| **Direction:** Read the passage carefully and choose the best answer to each question out of the four

alternatives.

Many years ago, I was the chief guest at a function. This was held in a hostel for poor students that had been built by a philanthropist. Food and shelter were free, but students had to bear other expenses like tuition and clothing. In my younger days, I had come across many families who would look after students who were economically backward but otherwise bright. They used to help them with their fees or clothing and often with their food as well. In those days, most colleges were located in larger towns. Many poor students who came to study in these towns used to stay with these families and would be treated as part of the family. The woman of the house considered this a good deed and helped the poor students wholeheartedly. Today, the situation is different. Even smaller towns have schools and colleges, so this custom has disappeared. While I was sitting on the dais, I remembered the past and congratulated the person who had built the hostel. It was a good deed and of great help to many students. The hostel secretary told me about some of the students in the hostel who had secured ranks but had a problem paying their tuition fees. He said, "Madam, this year we have three students from different disciplines who have secured ranks. All of them are from extremely poor families. They have one more year to complete their degrees," "What are they studying?" "One is in medicine, the second in engineering and the third in commerce." "Can I meet them after the function?"

The function went on as usual. Often, at such functions too much praise is lavished on the chief guest. Sometimes, they even make exaggerated and false claims about the chief guest. I feel this unnecessary praising is the highest form of corruption where people are easily fooled and it encourages those who are praised to develop an inflated opinion of themselves. That's why, in the twelfth century, in Karnataka, the great revolutionary leader Basaveshwara warned in his teaching that praise is like

a golden gallows. After the function, I met the three poor bright boys whom the secretary had told me about. They were a little puzzled, shy and nervous. All of them had the same story: father in a small job unable to make ends meet, a large family back in the village, no land or any other asset. Only sheer determination to excel in studies had brought them here against all odds. |||End|||

In early times, how did the poor students manage their expenses in towns if college education was not available to them in their villages? A. They used to get regular help from the philanthropist B. Their fees and clothing expenses were borne by the colleges C. Many families used to provide them facilities on payment D. They got help for their fees, clothing, food, etc from families in those towns Ans.D

Sol. The author tells us that in his younger days, the colleges were located in larger towns and many poor students used to come to those towns to complete their studies. Such students stayed with families which used to help them economically. They helped them with their fees or clothing and often with their food as well. So, option D is correct.

15. Which of the following is/are not true about the hostel?

- I. Lodging and boarding arrangements were available to poor students without any payment.
  - II. The hostel was built by the philanthropist who was also the chief guest at the function.
  - III. Tuition and clothing were free of cost for the poor students.
- A. I and II                      B. I and II  
C. II and III                    D. All of these

Ans.D

Sol. There is no mention of lodging and boarding arrangements in the given passage. So, statement I is false. It is also mentioned in the passage that only food and shelter were free for poor students, however, they had to pay for their tuition fees as well as for their food.



So, statement III is also incorrect. The author came as the chief guest at the function but was not the person who built the hostel. So, option II is also incorrect.

16. Why did the chief guest want to meet the three students?

- I. To please the secretary
  - II. To observe a ritual
  - III. To impress the secretary
- A. I and II                      B. II and III  
C. I and III                     D. None of these

Ans.D

Sol. The hostel secretary told the chief guest that three students of the hostel secured ranks but they belonged to very poor families. The author wanted to know their stories and understand their condition.

17. Why has the practice of staying with families in towns by the students who come from villages disappeared?

- A. Families have found that education has become very expensive
- B. Higher education is available to students even in smaller towns
- C. There is no need for students to go in for higher education these days
- D. The situation is altogether different as the educational structure has changed

Ans.B

Sol. It is mentioned in the passage that now a days, even the smaller towns have the facility of higher education, schools and colleges have been opened there as well.

18. Why did the hostel secretary mention the three students to the chief guest?

- A. He was not sure of getting the desired help from the chief guest
- B. He had a lot of respect for the chief guest
- C. The three students were close relatives of the secretary
- D. The secretary believed that the chief guest would help the students.

Ans.D

Sol. The three students were from very poor families. They were exceptionally well in their field of studies, however, they did not have sufficient resources to

continue their studies. There is no specific reason mentioned in the passage as to why the secretary discussed the issue with the chief guest but out of the given options, only D seems to be logical and relevant.

19. What does the author dislike about functions?

- A. The false or exaggerated praise showered on the chief guest
- B. Selection of corrupt persons as chief guests
- C. The awkward situation created by the audience
- D. The shyness and nervousness of the audience

Ans.A

Sol. Refer to the following lines of the passage, 'Often, at such functions too much praise is lavished on the chief guest. Sometimes, they even make exaggerated and false claims about the chief guest.'

20. Which of the following was not a common factor among the three students?

- A. Subjects of study
- B. Family background
- C. Lack of resources
- D. Intelligence

Ans.A

Sol. The three students about whom the hostel secretary told the author were all exceptionally intelligent, they were all from extremely poor families and did not have sufficient resources. They belonged to different disciplines like one of them was from medicine, the second one was from engineering and the third one was from commerce. So, the correct answer is option A.

21. The three students had come to attend college because of their

- A. family insistence
- B. poor financial background
- C. faith in philanthropists
- D. strong willpower

Ans.D

Sol. Refer to the last line of the passage, 'Only sheer determination to excel in

studies had brought them here against all odds.'

22. Which of the following is/are the reason/s praise is considered as 'golden gallows'?

- I. It provides the audience with false information distracting them from the chief guest's speech.
- II. It creates wrong notions about themselves in the minds of those being praised.
- III. It helps people to easily fool the persons being praised.

- A. Only I
- B. I and II
- C. II and III
- D. None of these

Ans.C

Sol. From the line of the passage "I feel this unnecessary praising is the highest form of corruption where people are easily fooled and it encourages those who are praised to develop an inflated opinion of themselves" we can infer that only statements II and III are correct. So, the correct option is C.

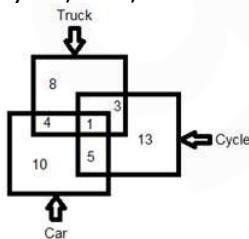
23. In the passage what does the word 'bear' mean?

- A. Send
- B. Ensure
- C. Pay
- D. Receive

Ans.C

Sol. The word "Bear" has been used in the following line, "Food and shelter were free, but students had to bear other expenses like tuition and clothing". Here, the word 'bear' means to pay for the expenses like tuition and clothing. So, the correct answer is option C.

24. In the following Venn Diagram, shows information about the person who uses Cycle, Car, Truck.



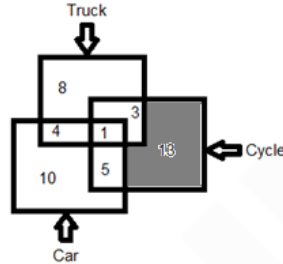
How many people who use the only cycle?

- A. 13
- B. 10
- C. 8
- D. 16

Ans.A

Sol.

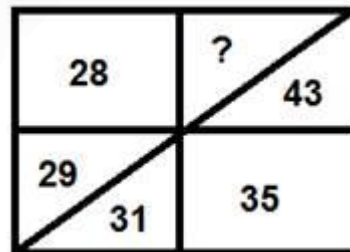
Given that three squares first one is a car, the second one is cycle and the third one is the truck shown in the given figure



In this question ask how many people who use the only cycle which shown in shaded part in the above figure which is = 13.

So the correct answer is option A.

25. In the following question, select the missing number from the given alternatives.



- A. 61
- B. 60
- C. 59
- D. 57

Ans.C

Sol. The series will be,

$$28 + 1 = 29$$

$$29 + 2 = 31$$

$$31 + 4 = 35$$

$$35 + 8 = 43$$

$$43 + 16 = ?$$

$$? = 59$$

Hence, the correct answer is option C.

# SSC CGL 2019

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