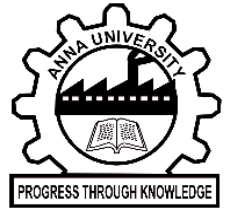




**MADRAS INSTITUTE OF TECHNOLOGY**  
**ASSOCIATION OF COMPUTER TECHNOLOGISTS**  
**PRAYATNA'20**



**SHERLOCK HOLMES**

**DURATION: 30 MINS**

**INSTRUCTIONS:**

- **WRITE YOUR NAME, REG.NO., DEPT., AND MOBILE NO. ON THE ANSWER SHEET.**
- **STICK YOUR QR CODE ON THE ANSWER SHEET AND WRITE YOUR UNIQUE PARTICIPANT ID BELOW IT.**
- **KEEP YOUR MOBILE IN AIRPLANE MODE.**
- **DON'T LEAVE THE APP DURING THE TEST.**
- **THIS QUESTION PAPER CONTAINS TWO SECTIONS.**
- **EACH QUESTION IN SECTION-I CARRIES 1 MARK.**
- **EACH QUESTION IN SECTION-II CARRIES 2 MARKS.**

**SECTION – I**

1. A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of the platform?  
A. 120 m      B. 300 m      C. 240 m      D. None of these
2. Find the odd one out: 41, 43, 47, 53, 61, 71, 73, 81
3. A man has some hens and cows. If the number of heads be 48 and the number of feet equals 140, then the number of hens will be  
A. 22      B. 24      C. 23      D. 26
4. A and B can do a work in 8 days. B and C can do the same work in 12 days. A, B and C together can finish it in 6 days. A and C together will do it in \_\_\_\_ days.  
A. 4      B. 6      C. 8      D. 12
5. Look at this series: 8, 6, 9, 23, 87, .... What number should come next?
6. Six years ago, the ratio of the ages of Lokesh and his girlfriend was 6:5. Four years hence, the ratio of their ages will be 11:10. What is his girlfriend's age at present?  
A. 16      B. 20      C. 18      D. Cannot be determined
7. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero?  
A. 0      B. 1      C. 10      D. 19
8. In a 100 m race, A beats B by 10 m and C by 13 m. In a race of 180 m, B will beat C by:  
A. 5.4 m      B. 4.5 m      C. 5 m      D. 6 m
9. If **15<sup>th</sup> November, 2005 is Wednesday**, what was the day of the week on 8<sup>th</sup> November, 2004?

10. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?
- A. 4                      B. 10                      C. 15                      D. 16

## SECTION – II

1. A woman that lives in California can't be buried in Chicago. Why?
2. Jack is found murdered. The Police found the suspects but could not identify the killer. So, the Police sought the help of detective Kavin. The suspects are Gerry, Julie, Jason, Nick and Sophie. Detective Kavin went to the spot and saw the numbers 6, 4, 9, 10, 11 written in blood on a calendar. Then immediately he found the murderer. Who is the killer and how did the detective find him?
3. A woman was horrified to find a fly in her tea. The waiter took her cup and went into the kitchen and returned with a fresh cup of tea. She shouted, "You brought me the same cup of tea!" How did she know?
4. My First represents 50. My Second is the first of 26. My Third can be found in the first column and fourth row of a table and my Fourth is found twice in bee. I can be either natural or artificial.
5. Here is a list showing the month and a number for each month:

January – 713	May – 351
February – 823	June - 462
March – 531	July - 471
April – 542	August – 683

Decode the logic and find the number for September =?