

### Quantitative Analysis

Q1. A worker earns Rs. 40 the first day and spends Rs. 25 on the second day. He earns Rs. 40 on the third day and spend Rs 25 on the fourth day and so on. On which day would he have Rs 100.

- (a) 10            (b) 9            (c) 8            (d) 11

Q2. A man spent 25% of his monthly earning on house rent. Out of the balance, he spent 60% on the other house expenses. If he had a balance of Rs.300 at the end of the month, the monthly earning of the man is:

- (a) 1000    (b) 1250            (c) 1500            (d) 2500

Q3. An amount of Rs. 2430 is divided among X, Y and Z such that if their shares be reduced by Rs. 5, Rs.. 10 and Rs. 15 respectively, the remainders shall be in the ratio of 3: 4 : 5. Then, Y's share was:

- (a) Rs.605    (b) Rs. 790    (c) Rs. 800    (d) Rs.810

Q4. The profit earned by selling an article for Rs. 896 is equal to the loss incurred when the same article is sold for Rs. 524. What should be the sale price for making 50% profit ?

- (a) Rs. 920            (b) Rs 960            (c ) Rs.1065            (d) Rs 1200

Q5. A, B and C rent a pasture, A puts 20 hen for 7 months, B puts 22 hen for 5 months and C puts 25 hen for 6 months for grazing, If the rent of the pasture is Rs. 360, how much must C pay as his share of rent ?

- (a) Rs. 95            (b) Rs. 135            (c) Rs. 95            (d) Rs. 105            (e) None of these

Q6. A number 475 is divided into two parts in such a way that the LCM and HCF of the two parts is 2250 and 25 respectively. Find the two numbers.

- (a) 250, 225    (b) 200, 275    (c) 175, 300    (d) 240, 235

Q7. HCF of two numbers is 12 and their product is 3600. How many such pairs of numbers can be formed ?

- (a) 0            (b) 1            (c) 2            (d) 4

Q8. A number when divided by 225 gives a remainder of 32. What will be the remainder when the same number is divided by 15 ?

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

Q9. Find the units digit of the expression  $55^{725} + 73^{5810} + 22^{853}$ .

- (a) 4            (b) 0            (c) 6            (d) 5

Q10. Rs. 2250 is divided among three friends Amit, Brajesh and Chayan in such a way that  $\frac{1}{6}$ th of Amit's share,  $\frac{1}{4}$ th of Brajesh's share and  $\frac{2}{5}$ th of Chayan's share are equal. Find Amit's share.

- (a) Rs. 720    (b) Rs. 1080    (c) Rs. 450    (d) Rs. 1240

Q11. Gold is 19 times as heavy as water & copper is 9 times heavy. In what ratio must these metals be mixed so that the mixture may be 15 times as heavy as water?

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

Q12. The ratio of the ages of a man and his wife is 5 : 4. After 6 years. this ratio will be 6 : 5. If at the time of marriage, the ratio was 9 : 7, then how many years ago were they married:



- (a) 3 years      (b) 10 years      (c) 12 years      (d) 15 years      (e) None of these

Q13. Amar can do a piece of work in 10 days and Akbar can do the same work in 20 days. With the help of Anthony, they finish the work in 5 days. How long will it take for Anthony alone to finish the work?

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

Q14. A man in car notices that he can count 75 telephone posts in two min. If they are known to be 40 m apart, then at what speed is the car travelling ?

- (a) 83.6 km/h      (b) 74.8 km/h      (c) 88.8 km/h      (d) 78.8 km/h

Q15. A person sees a train passing over 2 km long bridge. The length of the train is half that of bridge. If the train clears the bridge in 4 min, the speed of train is:

- (a) 50 km/h      (b) 45 km/h      (c) 60 km/h      (d) 30 km/h

### Data Interpretation

**Direction for (Qs.16-19):** The following table gives the protein content, carbohydrate content & fat content in three different foods - P, Q and R and also the cost of these foods Study the table and answer the questions that follow :

Food	% of Protein	% of Carbohydrates	% of Fat	Cost per Kg
P	10	20	15	Rs. 180-00
Q	30	10	20	Rs. 108-00
R	40	25	10	Rs. 165-00

16. Which of the following diets would supply at least 90 grams of proteins?

- (a) 400 gm. of P & 150 gm. of Q  
 (b) 300 gm. of P & 100 gm. of R  
 (c) 250 gm. of R  
 (d) 800 gm. of P

17. Which of the following diets will have the maximum fat content?

- (a) 450 gm. of P and 200 gm. of R  
 (b) 400 gm. of Q and 300 gm. of R  
 (c) 200 gm. of Q and 675 gm. of R  
 (d) 350 gm. of P and 300 gm. of Q

18. Each of the following diets would supply at least 100 gm. of carbohydrates. Which of these diets costs the least?

- (a) 600 gm. of P and 400 gm. of Q  
 (b) 750 gm. of Q and 250 gm. of R  
 (c) 450 gm. of P and 550 gm. of R  
 (d) 850 gm. of P and 150 gm. of Q

19. What will be the total cost of purchasing x gm., y gm. and z gm. of foods P, Q and R respectively?

- (a) Rs.  $(0.001x + 0.001y + 0.001z)$   
 (b) Rs.  $(x + y + z)$   
 (c) Rs.  $(1.80x + 1.08y + 1.65z)$

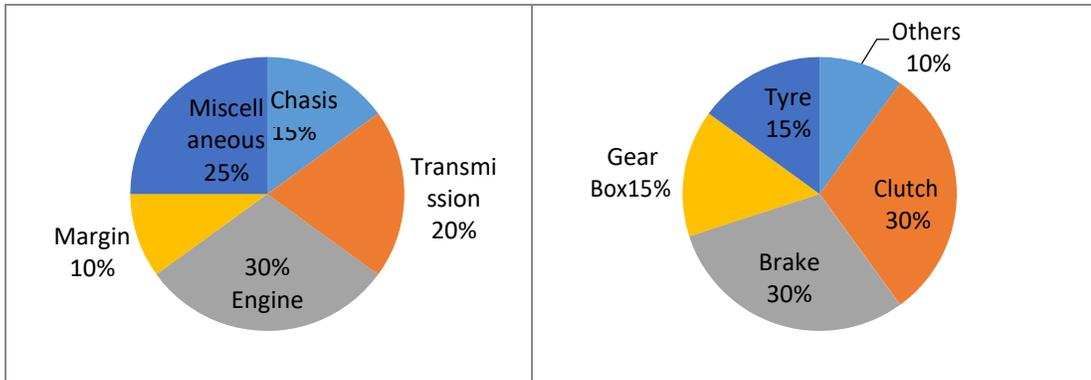
(d)Rs.  $(\frac{0.9}{5}x + \frac{0.54}{5}y + \frac{0.33}{2}z)$



**Direction for (Qs.20-27):** Study the pie charts given below & answer the following questions.

**PRICE BREAK UP OF CAR**

**COST BREAK UP OF TRANSMISSION**



**Price of car = Rs.1,00,000**

20. What is the cost of engine?  
 (a) Rs. 50000      (b) Rs.60000      (c) Rs.20000      (d) Rs.30000
21. What is the cost of gear box?  
 (a) Rs.9000      (b) Rs. 6000      (c) Rs.3000      (d) Rs.15000
22. What percentage of total cost is contributed by the brake?  
 (a)5.5%      (b)6.6%      (c)6%      (d)5.4%
23. If the price of tyres goes up by 25%, by what amount should the sale price be increased to maintain the amount of profit?  
 (a)Rs. 750      (b)Rs. 2250      (c)Rs. 3750      (d)Rs.375
24. If transmission cost increases by 20% by what amount is the profit reduced (total price of car remains same)?  
 (a)Rs.3000      (b)Rs. 4000      (c)Rs. 6000      (d)Rs. cannot be determine
25. What is the profit %?  
 (a)10%      (b)9.09%      (c)11.11%      (d)cannot be determine
26. What % of sale price is contributed by CLUTCH?  
 (a) 6%      (b)2%      (c)3%      (d)cannot be determine
27. If transmission cost increases by 10% & Engine cost increases by 20%. What is the % contribution of transmission to the cost?  
 (a)20%      (b)22.44%      (c)21.86%      (d)21.98%

**Logical Reasoning**

**Directions (Q. 28-29):** Read the following information and answer the questions given below :

Eight friends Parul, Karan, Rishika, Sagar, Pankaj, Usha, Vidham and Wagish are sitting around a circular table facing centre. Karan is sitting between Vidham and Sagar. Wagish is third to the left of Karan and second to the right of Parul. Rishika is sitting between Parul and Vidham. Karan and Pankaj are not sitting opposite to each other.

28. Which of the following statements is not correct ?

(a) Sagar and Parul are sitting opposite to each other.



- (b) Vidham and Karan are not sitting opposite to each other.
- (c) Rishika and Pankaj are sitting opposite to each other.
- (d) Usha and Karan are sitting opposite to each other.
- (e) None of the above

29. Who is third to the left of Sagar ?

- (a) Usha
- (b) Parul
- (c) Pankaj
- (d) Sagar
- (e) Can't be determined

**Directions (Q. 30-33):** Read the following information carefully and answer the questions given below it:

Five friends P, Q, R, S and T are sitting on a bench. (i) P is sitting next to Q. (ii) R is sitting next to S. (iii) S is not sitting with T. (iv) T is on the left end of the bench. (v) R is on second position from right, (vi) P is on the right side of Q, who is to the right side of T. (vii) P and R are sitting together.

30. At what position is P sitting ?

- (a) Between Q and R
- (b) Between S and R
- (c) Between T and S
- (d) Between R and T

31. Who is sitting at the centre ?

- (a) P
- (b) Q
- (c) R
- (d) S
- (e) T

32. What is the position of Q ?

- (a) Second from right
- (b) Centre
- (c) Extreme left
- (d) Second from left
- (e) None of these

33. What is the position of S ?

- (a) Extreme left
- (b) Extreme right
- (c) Third from left
- (d) Second from left
- (e) None of these

34. A man goes towards East five km, then he takes a turn to South-West and goes five km. He again takes a turn towards North-West and goes five km with respect to the point from where he started, where is he now ?

- (a) At the starting point
- (b) In the West
- (c) In the East
- (d) In the North-East
- (e) In the South-East

35. In a certain code, GOODNESS is coded as HNPCODTR. How is GREATNESS coded in that code?

- (a) HQFZUODTR
- (b) HQFZUMFRT
- (c) HQFZSMFRT
- (d) FSDBSODTR
- (e) HQFZUFRTM

36. 2, ..... , 8, 16, 32, 64, 128, 256

- (a) 2
- (b) 3
- (c) 5
- (d) 4
- (e) None of these

**Directions (Q. 37-40) :** Read the following information carefully and answer the questions based on them.

(I) U, V, W, X, Y and Z are six members in the family. There are two pair of couples in the group.

(II) There are two CA, one Teacher, one Sociologist and two Artists. Both the CA are of the same sex

(III) U and W are in the same profession.

(IV) The Teacher is married to the CA and the Artist is married to lady Sociologist.

(V) U is an Artist. Y is a male CA. Both of them are unmarried.

(VI) Z is V's husband.

37. Who is married with the Teacher ?

(a) Z (b) W (c) Y (d) V (e) None of these



38. Who is Sociologist by profession ?

- (a)V (b)Z (c) W (d) Can't be determined (e) None of these

39. Which of the followings are the pairs of couples ?

- (a) ZX and VX (b) WX and ZV (c) WX and ZX (d) Can't be determined (e) None of these

40. What is the profession of V ?

- (a) CA (b) Teacher (c) Sociologist (d) Artist (e) None of these

### **Reading Comprehension And Verbal Ability**

Q.In The Hitchhiker's Guide to the Galaxy, the characters visit the legendary planet Magrathea, home to the now-collapsed planet-building industry, and meet Slartibartfast, a planetary coastline designer who was responsible for the fjords of Norway. Through archival recordings, he relates the story of a race of hyper-intelligent pan-dimensional beings who built a computer named Deep Thought to calculate the Answer to the Ultimate Question of Life, the Universe, and Everything. When the answer was revealed to be 42, Deep Thought had predicted that another computer, more powerful than itself would be made and designed by it to calculate the question for the answer.

The computer, often mistaken for a planet (because of its size and use of biological components), was the Earth, and was destroyed by Vogons to make way for a hyperspatial express route, five minutes before the conclusion of its 10-million-year program. Two of a race of hyper-intelligent pan-dimensional beings who commissioned the Earth in the first place, disguise themselves as Trillian's mice, and want to dissect Arthur's brain to help reconstruct the question, since he was part of the Earth's matrix moments before it was destroyed, and so he is likely to have part of the question buried in his brain. Trillian is also human but had left Earth six months previously with Zaphod Beeblebrox, President of the Galaxy. The protagonists escape, setting course for "The Restaurant at the End of the Universe". The mice, in Arthur's absence, create a phony question since it is too troublesome for them to wait 10 million years again just to cash in on a lucrative deal. Their new question was "How many roads must a man walk down?"

41. Which word in the passage means "everything?"

- 1) Pan 2)Hyperspatial 3)Magrathea 4)Fjords

42. Which of the following statements is true about Slartibartfast?

- 1) The Norwegian fjords were designed by him. 2) He has access to the archives related to Deep Thought.  
3) Both 1 and 2 4) Neither 1 nor 2

43. The author of the passage is likely to disagree with which of the following statements:

- 1) Earth is a planet.  
2) The answer to the question "How many roads must a man walk down" is 42.  
3) Author will agree with both statements.  
4) Author will disagree with both statements.

Q.During the Industrial Revolution, children as young as four were employed in production factories with dangerous, and often fatal, working conditions. Based on this understanding of the use of children as labourers, it is now considered by wealthy countries to be a human rights violation, and is outlawed, while some poorer countries may allow or tolerate it. The Victorian era became notorious for employing young children in factories and mines and as chimney sweeps. Child labour played an important role in the Industrial Revolution from its outset, often brought about by economic hardship; Charles Dickens for example worked at the age of 12 in a blacking factory, with his family in debtor's prison.

The children of the poor were expected to help towards the family budget, often working long hours in dangerous jobs and low wages. Agile boys were employed by the chimney sweeps; small children were employed to scramble under



machinery to retrieve cotton bobbins; and children were also employed to work in coal mines to crawl through tunnels too narrow and low for adults. Children also worked as errand boys, crossing sweepers, shoe blacks, or selling matches, flowers and other cheap goods. Some children undertook work as apprentices to respectable trades, such as building or as domestic servants (there were over 120,000 domestic servants in London in the mid 18th Century). Working hours were long: builders worked 64 hours a week in summer and 52 in winter, while domestic servants worked 80 hour weeks.

A high number of children also worked as prostitutes. Children as young as three were put to work. In coal mines children began work at the age of five and generally died before the age of 25. Many children (and adults) worked 16 hour days. As early as 1802 and 1819 Factory Acts were passed to regulate the working hours of workhouse children in factories and cotton mills to 12 hours per day. These acts were largely ineffective and after radical agitation, by for example the "Short Time Committees" in 1831, a Royal Commission recommended in 1833 that children aged 11-18 should work a maximum of 12 hours per day, children aged 9-11 a maximum of eight hours, and children under the age of nine were no longer permitted to work. This act however only applied to the textile industry, and further agitation led to another act in 1847 limiting both adults and children to 10 hour working days.

44. Which of the following cannot be inferred from the above passage?

- 1) Modern thought, especially in developed nations, frowns upon child labour.
- 2) In the 19th century, child labour was deleterious to the health of the child, often leading to their early demise.
- 3) The Industrial revolution served to minimize hardships for child labour because of the increasing incidence of safer technology as opposed to manual and dangerous labour.
- 4) Economic hardship, coupled with physical suitability, often led to employment of young children in some particularly arduous jobs.

45. Which of the following is a suitable title for the passage?

- 1) Revolutionizing child labour
- 2) Child Labour: From the past to the present
- 3) Child Labour and its inglorious past
- 4) Why we need to do away with Child Labour?

46. The word 'scramble' as used in the third paragraph means all of the following EXCEPT:

- 1) scuttle
- 2) scurry
- 3) clamber
- 4) clamour

**Direction (Q 47-48)** Give the Synonym

47. CONUNDRUM

- (a) Riddle
- (b) Dampness
- (c) Impudence
- (d) Servility

48. GRUFF

- (a) Rough
- (b) Hard
- (c) Tough
- (d) Cheerless

**Direction (Q 49-50)** Give the Antonym

49. LACONIC

- (a) uncivilised
- (b) talkative



- (c) erudite
- (d) livid

50. NADIR

- (a) modernity
- (b) zenith
- (c) liberty
- (d) progress

**Direction (Q. 51–54)** Give the correct preposition

51. Every weekend, we put the trash can \_\_\_\_\_ for garbage collection.

- (a) Up
- (b) At
- (c) Into
- (d) Out

52. You have to leave your shoes \_\_\_\_\_ the door when you enter the house.

- (a) In
- (b) Over
- (c) To
- (d) By

53. These dresses were \_\_\_\_\_ sale last week.

- (a) In
- (b) Of
- (c) On
- (d) Up

54. There is no doubt that Adam is very good \_\_\_\_\_ telling jokes.

- (a) At
- (b) Over
- (c) Of
- (d) With

**Direction (Q 55-57)** In the given sentence replace the phrase printed in **bold** type to make the grammatically correct

55. In addition **to enhanced their reputations** through strategic use of philanthropy, companies are sponsoring social initiatives to open new markets.

- (a) of enhancing their reputation
- (b) to having enhance their reputation
- (c) to enhancing their reputation
- (d) to have their reputation enhancing

56. **Shapes** of gods and goddess are worshipped by people.

- (a) Images
- (b) Reflections
- (c) Clay shapes
- (d) Clay toys

57. The intruder stood quietly **for few moments**



(a) for few time

(b) for the few moments

(c) for a few moments

(d) No correction required



### Verbal Reasoning

**Direction (Q 58-59)** In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

58. **Statements:** All the pencils are pens. All the pens are inks.

**Conclusions:** 1. All the pencils are inks.  
2. Some inks are pencils.

- (a) Only (1) conclusion follows
- (b) Only (2) conclusion follows
- (c) Either (1) or (2) follows
- (d) Neither (1) or (2) follows
- (e) Both (1) and (2) follow

59. **Statements:** Some dogs are bats. Some bats are cats.

**Conclusions:** 1. Some dogs are cats.  
2. Some cats are dogs.

- (a) Only (1) conclusion follows
- (b) Only (2) conclusion follows
- (c) Either (1) or (2) follows
- (d) Neither (1) or (2) follows
- (e) Both (1) and (2) follow

**Direction (Q 60-61)** In each question below is given a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.

60. **Statements:** The T.V. programmes, telecast specially for women are packed with a variety of recipes and household hints. A major portion of magazines for women also contains the items mentioned above.

**Conclusions:** 1. Women are not interested in other things.  
2. An average woman's primary interest lies in home and specially in the kitchen.

- (a) Only conclusion 1 follows
- (b) Only conclusion 2 follows
- (c) Either 1 or 2 follows
- (d) Neither 1 or 2 follows
- (e) Both 1 and 2 follow

61. **Statements:** The distance of 900 km by road between Bombay and Jafra will be reduced to 280 km by sea. This will lead to a saving of Rs. 7.92 crores per annum on fuel.

**Conclusions:** 1. Transportation by sea is cheaper than that by road.  
2. Fuel must be saved to the greatest extent

- (a) Only conclusion 1 follows
- (b) Only conclusion 2 follows
- (c) Either 1 or 2 follows

- (d) Neither 1 or 2 follows
- (e) Both 1 and 2 follow



**Direction (Q 62-63)** Each question given below consists of a statement, followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak' argument.

62. **Statement:** Should Indian scientists working abroad be called back to India?

**Arguments:** 1. Yes. They must serve the motherland first and forget about discoveries, honours, facilities and all.

2. No. We have enough talent; let them stay where they want.

- (a) Only argument I is strong
- (b) Only argument II is strong
- (c) Either I or II is strong
- (d) Neither I or II is strong
- (e) Both I and II are strong

63. **Statement:** Should we scrap the system of formal education beyond graduation?

**Arguments:** 1. Yes. It will mean taking employment at an early date.

2. No. It will mean lack of depth of knowledge.

- (a) Only argument I is strong
- (b) Only argument II is strong
- (c) Either I or II is strong
- (d) Neither I or II is strong
- (e) Both I and II are strong

**Direction (Q 64-65)** In each question below is given a statement followed by two courses of action numbered I and II. You have to assume everything in the statement to be true and on the basis of the information given in the statement, decide which of the suggested courses of action logically follow(s) for pursuing.

64. **Statement:** If the retired Professors of the same Institutes are also invited to deliberate on restructuring of the organisation, their contribution may be beneficial to the Institute.

**Courses of Action:** 1. Management may seek opinion of the employees before calling retired professors.

2. Management should involve experienced people for the systematic restructuring of the organisation.

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I or II follows
- (e) Both I and II follows

65. **Statement:** The sale of a particular product has gone down considerably causing great concern to the company.

**Courses of Action:** 1. The company should make a proper study of rival products in the market.

2. The price of the product should be reduced and quality improved.

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I or II follows
- (e) Both I and II follows

Sports Awareness (66-90)

66. National Sports of China is –  
[A] Carom [B] Table Tennis [C] Badminton [D] Chess
67. Canada Cup belongs to which sports –  
[A] Golf [B] Hockey [C] Polo [D] Horse Polo
68. Westchester Cup belongs to –  
[A] Horse Polo [B] Hockey [C] Polo [D] Golf
69. Ghulam Ahmed Trophy belongs to which sports –  
[A] Cricket [B] Hockey [C] Football [D] Golf
70. Sultan Azlan Shah Cup is related to which among the following Sports?  
[A] Badminton [B] Hockey [C] Table Tennis [D] Golf
71. Sachin Tendulkar hit his 100th international century against which among the following team?  
[A] Sri Lanka [B] Bangladesh [C] Pakistan [D] South Africa
72. The name of Professor Guru Dutt Sondhi is known behind the foundation of which among the following?  
[A] Olympic Association of India [B] Asian Games Federation  
[C] Indian Premier League [D] Indian Badminton League
73. Who among the following is the first Indian to score a century in Indian Premier League (IPL)?  
[A] Gautam Gambhir [B] Manish Pandey [C] Sachin [D] Rahul Dravid
74. “Magnus Carlsen” is a player of which among the following sports / games?  
[A] Cricket [B] Carrom [C] Chess [D] Tennis
75. The terms “Technical foul” and “Flagrant Foul” are most commonly associated with which of the following sports?  
[A] Table Tennis [B] Badminton [C] Basket Ball [D] Football
76. “Birdie” and “Eagle” are two terms related to which of the following sports?  
[A] Polo [B] Golf [C] Chess [D] Billiards
77. Who among the following was first Rajiv Gandhi Khel Ratna?  
[A] Viswanathan Anand [B] Geet Sethi [C] Karnam Malleswari [D] Nameirakpam Kunjarani
78. Kazakhstan is a part of which of the following continental confederations recognized by FIFA?  
[A] Asian Football Confederation [B] Confederation Africaine de Football  
[C] Union of European Football Associations [D] None of them
79. “National Football Museum” which keeps FIFA collection is located in which country?  
[A] Switzerland [B] Canada [C] England [D] France
80. Who was the first Indian International Cricket Council President?  
[A] Sharad Pawar [B] Jag Mohan Dalmiya [C] Ray Mali [D] Gavaskar
81. Which was the first brand, Sachin Tendulkar endorsed in the beginning of his career?  
[A] Boost [B] Pepsi [C] Nike [D] None of them
82. In Kho-Kho, the players occupying the squares are known as \_\_\_\_\_?  
[A] Lobby [B] Raiders [C] Chasers [D] Chukker
83. In which year Mission Olympics in Army programme was launched?  
[A] 1999 [B] 2000 [C] 2001 [D] 2002
84. Who among the following is first Indian to win an individual gold medal at any Olympic Games?  
[A] Abhinav Bindra [B] Muhammad Aslam  
[C] Rajyavardhan Singh Rathode [D] Mohammed Shahid
85. What is the approximate maximum weight of Golf Ball as per Rules of Golf?

[A] 20 gms      [B] 25 gms      [C] 40 gms      [D] 45 gms

86. Which among the following team was first winner of "World Cup Hockey" ?



[A] Spain      [B] France      [C] UK      [D] Pakistan

87. With Which of the following sports M Vijayakrishna Memorial Cup is related to?

[A] Badminton      [B] Table Tennis      [C] Horse Races      [D] Polo

88. For how many times “Undivided India” was part / member of summer Olympics?

[A] 2      [B] 3      [C] 4      [D] 5

89. Which among the following sports have largest number of participants in teams of either side?

[A] Rugby Football      [B] Water polo      [C] Baseball      [D] Soccer

90. With which of the following sports “Agakhan trophy” is related to ?

[A] Field Hockey      [B] Horse Racing      [C] Table Tennis      [D] Show Jumping





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