Quantitative Analysis

Q1. There were 240 multiple choice questions in an entrance examination of a medical college. A candidate was given 2 marks for every correct answer and penalised 1/2 mark for every wrong answer. The candidate scored 160 marks in the paper having answered all the questions. Find the number of correct answers given by the candidate.

(a) 108   (b) 112   (c) 116   (d) 104

Q2. If 70% of the students in a school are boys and the number of girls is 390, the number of boys is:

(a) 1176   (b) 910   (c) 1260   (d) 1125

Q3. If A:B = 2:3, B:C = 4:5 and C:D = 2:1 ,then A:D is equal to:

(a) 6 : 7   (b) 16 : 15   (c) 8 : 15   (d) 15 : 4

Q4. The total cost price of two clocks is Rs 900. One is sold at a profit of 20% and the other at a loss of 25%. There is no loss or gain in the whole transaction. The cost price of the watch on which the shopkeeper loses is

(a) Rs 400   (b) Rs 500   (c) Rs 450   (d) Rs 540

Q5. P, Q and R enter into partnership. P invests some money at the beginning, Q invests double the amount after 6 months and R invests thrice the amount after 8 months. If the annual profit be Rs. 10,500, R's share is:

(a) Rs. 3,200   (b) Rs.4,500   (c) Rs. 3,500 (d) Rs 3,250

Q6. Find the HCF of 2/5, 12/11, 1/3

(a)1/165   (b)5/165   (c)2/165   (d)12/165

Q7. The product of 2 numbers is 3024 and their LCM is 36. Find their HCF.

(a) 88   (b)82   (c) 84   (d) 86

Q8. What least number must be added to 15763 so that it is exactly divisible by 18 ?

(a) 5   (b) 18   (c) 12   (d) 13

Q9. A number is such that when divided by 3, 5, 6, or 7 it leaves the remainder 1, 3, 4, or 5 respectively. Which is the largest number below 4000 that satisfies this property?

(a) 3358   (b) 3988   (c) 3778   (d) 2938

Q10. If 2A =3B = 4C, then A : B : C is:

(a) 2 : 3 : 4   (b) 4 : 3 : 2   (c) 6 : 4 : 3   (d) 20 : 15 : 2

Q11. In what proportion must sugar at Rs 12.50 per kg be mixed with sugar at Rs 14.00 per kg so that the mixture may be worth Rs 13.00 per kg ?

(a) 2 : 1   (b)3 : 5   (c) 3 : 7   (d) 2 : 5

Q12. Ritesh is 50 years old and Tonnie is 70 years old. How many years ago was the ratio of their ages 1:2 ?

(a) 5 years   (b) 30 years   (c) 20 years   (d) 37 years

Q13. If a work can be completed by A in 40 days and by B in 60 days, then the number of days taken by them to finish

the work, working together:

(a) 20 (b) 25 (c) 24 (d) 30

Q14. A bus moves at a speed of 60 km/h. What is the speed of the bus in metres per second ?

(a) $15\frac{2}{3}$ m/s   (b) $18\frac{2}{3}$ m/s   (c) $16\frac{2}{3}$ m/s   (d) $20\frac{2}{3}$ m/s

Q15. A train 560 m long, running with a speed of 63 km/hr will pass an electric pole in :

(a) 16 sec   (b) 32 sec   (c) 36 sec   (d) 30 sec

Data Interpretation

Direction for (Qs.16-22): Study the following table to answer the given questions:

Number of vehicles passing through a point of a city at different time slots on a particular day:

Slot no.	Time slot	Trucks	Buses	Cars	Two-wheeler	Auto-rickshaw
1	06:00-08:00	1008	2001	570	209	5055
2	08:00-09:00	706	1500	800	605	5000
3	09:00-09:30	200	1000	5000	15000	6329
4	09:30-10:00	202	1208	6000	12000	7001
5	10:00-11:00	Nil	1510	15050	8000	5000
6	11:00-13:00	Nil	2200	3000	200	4850
7	13:00-15:00	Nil	2250	3047	175	4900
8	15:00-16:00	Nil	1200	6899	220	5000
9	16:00-16:30	Nil	800	3005	306	5032
10	16:30-17:00	Nil	1010	3018	220	4908
11	17:00-17:30	Nil	1000	4444	800	5503
12	17:30-18:00	Nil	999	5057	9007	6200
13	18:00-18:30	300	1010	8090	11020	7020
14	18:30-19:00	309	1010	5091	12002	6980
15	19:00-20:00	800	1410	7000	110	5005
16	20:00-22:00	1600	1907	2076	214	4039

16. Which of the following can be inferred from the table?

(a) the entry of trucks was banned at that point from 10:00- 18:00.

(b) more people travel by public transport.

(c) the city has more number of two- wheelers than cars.

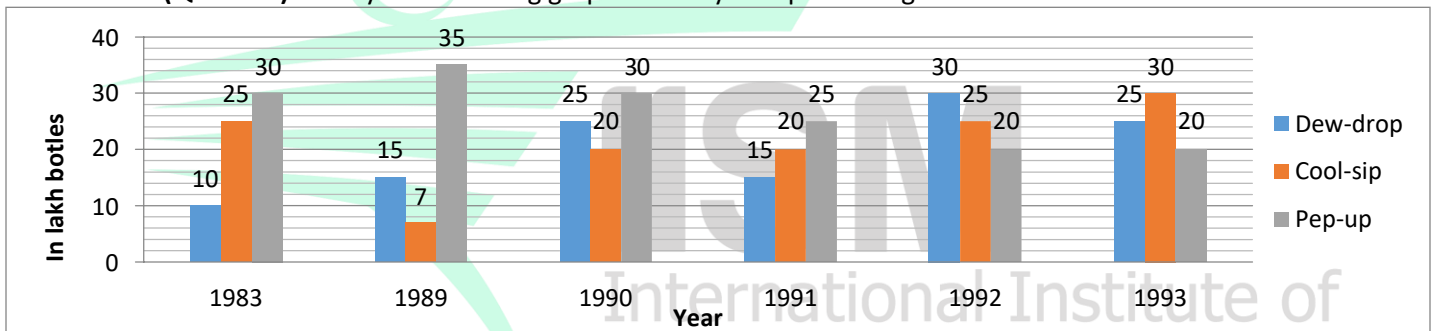(d) it is difficult to collect data for equal duration of time slots.

17. Of the given vehicles, how many passed through the point from 08:00-8:30?

(a) 8611   (b) 4305   (c) 1722 (d) cannot be determine

18. During which of the following one-hour time periods did maximum number of buses pass through the point?
(a) 08:00-09:00   (b) 09:00-10:00
(c) 06:00-07:00   (d) 18:00-19:00

19. Of the 16 slots given, for which slot number did the maximum number of given vehicles pass through the point?
(a)13   (b)14   (c)3   (d)5

20. During 10:00-11:00, the average number of persons on a bus, car, two- wheelers and auto rickshaw was 60, 2.5, 1.5 and 2 respectively. How many persons approximately did pass through the point these four vehicles during 10:00-11:00?
(a) 1,18,210   (b) 1,50,225   (c) 37,561   (d) 1,65,000

21. What is the average number of cars per hour passing through the point from 10:00-16:00?
(a) 6999   (b) 5599.2   (c) 4666   (d) cannot be determine

22. From 18:00-22:00, which of the given vehicles had the maximum number passing through the point?
(a) auto-rickshaws (b) buses (c) cars (d) two wheelers

Direction for (Qs.23-27) : Study the following graph carefully the questions given below .

23. In which year was the sale of Pep-up the maximum ?
(a) 1990   (b) 1991   (c) 1992   (d) None of these

24. In the case of which soft drink was the average annual sale maximum in the given period ?
(a) Pep-up only   (b) Cool-sip only
(c) Dew-drop only (d) Cool-ship and Dew-drop

25. In the case of Cool-sip drink, what was the approximate percent increase in sale in 1992 over its sale in 1991 ?
(a) Less then 20%   (b) 20% - 25%   (c) 25%   (d) 31% - 35%

26. In the year 1990, what was the difference between the number of 'Pep-up' and 'Cool-sip' bottles sold ?
(a) 50,00,000   (b) 5,00,000   (c) 50,000 (d) 10,00,000

27. What was the approximate percent drop in sale of 'Pep-up' in 1990 over its sale in 1989 ?
(a) 5   (b) 12   (c) 14   (d) 28

Logical Reasoning

Directions (Q. 28-31): Read the information carefully and answer the questions based on it. Six persons are sitting in a circle. P is facing Q. Q is to the right of T and left of R. R is to the left of S. U is to the right of P. Now S exchanges his seat with U, and T with Q.

28. Who will be sitting to the left of S ?
(a) Q   (b) U   (c) T   (d) P   (e) None of these

29. Who will be sitting to the left of R ?
(a) T   (b) U   (c) P   (d) Q   (e) Can't be determined

30. Who will be sitting opposite of P ?
(a) T   (b) U   (c) S   (d) Q   (e) None of these

31. Who will be sitting opposite to R ?
(a) T   (b) S   (c) Q   (d) P   (e) Can't be determined

Directions (Q. 32-33) : Read the following information carefully and answer the questions based on it.
A group of seven Dancers, facing the audience, are standing in a line on the stage as follows :
 (i) Dolly is to the right of Charul.
(ii) Fatima is near Geeta.
(iii) Beena is to the left of Fatima.
(iv) Elle is to the left of Amisha.
(v) Charul and Beena have one person between them.
(v) Amisha and Dolly have one dancer between them.

32. Who is on the extreme right ?
(a) Dolly   (b) Fatima   (c) Geeta   (d) Elle   (e) None of these

33. If we start counting from the left, on which number is Charul ?
(a) 1st (b) 2nd (c) 3rd (d) 5th (e) None of these

Q34. Anoop starts walking towards South. After walking 15 m, he turns towards North. After walking 20 m, he turns towards East and walks 10m. He then turns towards South and walks 5 m. How far is he from his original position and in which direction ?
(a) 10 m, North   (b) 10 m, South   (c) 10 m, West   (d) 10 m, East   (e) None of these

Q35. In a certain code, INSTITUTION is written as NOITUTITSNI. How is PERFECTION written in that code?
(a) NOICTEFREP   (b) NOITCEFERP   (c) NOITCEFRPE   (d) NOITCEFREP   (e) NOITCEFPER

36. 2,9,28,65,………….
 (a) 121   (b) 195   (c) 126   (d) 103   (e) 96

Directions (Q. 37-40) : Read the following information carefully and answer the questions based on them.
Six scientists L, M, N, O, P and Q have to demonstrate their subjects namely Chemistry, Zoology, Botany, Physics,

Geology and Maths. One scientist will demonstrate only one day. Demonstration will start from Monday and will end on Sunday. There will be a day of rest.

(I) Chemistry will immediately follow Geology.

(II) L, who is a mathematician, will demonstrate either on second or last day.

(III) N will demonstrate on third day, Physics will be on the fifth day.

(IV) P, who is zoologist, demonstrates on second day.

(V) M has demonstrated on Monday and the rest day will be immediately after Q's demonstration day.

37. On which of the following days no demonstration will take place ?

(a) Friday   (b) Wednesday   (c) Saturday   (d) Sunday   (e) None of these

38. On which day Botany will be demonstrated ?

(a) Monday   (b) Saturday   (c) Wednesday   (d) Cannot be determined   (e) None of these

39. Chemistry is immediately preceded by which of the following subjects

(a) Zoology   (b) Maths   (c) Botany   (d) Physics   (e) None of these

40. Who demonstrates Physics ?

(a) M   (b) Cannot be determined   (c) O   (d) Q   (e) N

Reading Comprehension And Verbal Ability

Q. A US economy firmly on the path of revival and robust growth would be of great significance for the world economy and Indian exporters should be looking at a sustained rise in demand in the US. The US economy, as per recent-released figures has already added some 1,71,000 jobs in the month prior. This shows that the US has made real progress in rejuvenating the economy. Of course, we are quite happy to see the revival of job growth in the US, especially because the Indian industry has had a not so minor role in this development. Indian companies have helped add some 20,000 new jobs to the US economy in 2012-2013 itself. Future Indian investment directed towards the US is likely to add to this number. Most of these new jobs are actually being created by the Indian Information Technology (IT) sector, which is mistakenly derided as a 'job stealer' by the US. However, empirical evidence clearly suggests that 'outsourcing' improves corporate bottom-lines in the US, which in turn allows corporates to expand, thereby leading to the generation of new jobs. The current rhetoric on outsourcing is overblown and counterproductive. There is after all no real use in creating impediments for a sector that has organically linked our two economies and is helping generate net employment in both lands. A growing India-US economic relationship is necessarily IT enabled.

41. According to the passage, to revive the US economy, Indian industry

a) did not have much contribution   b) had, in fact, no role to play

c) had a significant contribution.   D) could not do much about it.

42. As per the passage, recent propaganda against outsourcing of jobs in the US is

a) quite genuine and should have been more loud   b) fairly logical and justified

c) not quite correct   d) good for the growth of the US industry

43. Indian IT sector has created jobs in

a) the US alone   b) Both India and the US   c) India only   d) None of these

Q. The Supreme Court wants to find out whether additional taxes on diesel cars can curb air pollution. But evidence from Europe, where around half of the automobiles are diesel-based and the air is far cleaner than in our cities, demonstrates that diesel cars cannot by themselves be blamed for deterioration in air quality. And evidence from the Central Pollution Control Board clearly shows that industries, road dust from construction and geography account for most of the particulate matter emission in cities. Power plants and diesel generators also increase pollution. And the bulk of the transport emissions are on account of heavy commercial vehicles that use much older technologies than new

diesel cars. Undoubtedly, adulteration of diesel with subsidized kerosene adds to the problem. So a tax on new diesel cars is too blunt an instrument which certainly will not yield clean air. It could, in fact, skew the market towards used rather than new cars which would not only hurt the automobile industry but also generate further air pollution. Cleaning

the air in our cities would require concerted efforts by authorities including deregulation of diesel prices, ending sale of subsidized kerosene and supply of better quality fuel. It would also require a significant improvement in public transport systems and better enforcement of pollution control norms. The solution, therefore, is not so much in constraining the industry with new taxes, but in pushing through positive measures that enable people to earn their livelihoods while also breathing clean air.

44. As per the passage, which of the following measure(s) is considered necessary to reduce pollution in our cities?

a) Introducing better public transport systems.   b) Stopping availability of cheap kerosene in the market.
c) Introducing good quality fuel in the market.   d) All these

45. What is the meaning of the word 'skew' used in the passage?
 a) Maintain.   B) Distort   c) initiate.   d) Introduce.

46. What is the meaning of the word 'skew' used in the passage?
a) Maintain   b) Distort.   c) initiate.   d) Introduce.

Direction (Q 47-48): Give the Synonym
47. PROPITIOUS
   (a) favourable   (b) clean   (c) nearby   (d) patriotic

48. RECTITUDE
   (a) Duplication   (b) Intergrity   (c) Rectification   (d) Recovery

Direction (Q 49-50): Give the Antonym
49. FORBEARANCE
   (a) patience   (b) self-control   (c) intolerance   (d) preference

50. SYNCHRONOUS
   (a) not in working order   (b) not in phase   (c) without problems   (d) without permission

Direction (Q 51-54) Give the correct preposition
51. When we get ready for dinner, I have to take my books_____the table.

A. off   B. From   C. Out   D. Of

52. Every weekend, we put the trash can_____for garbage collection.

A. Up   B. At   C. Into   D. Out

53. You have to leave your shoes_____the door when you enter the house.

A. In   B. Over   C. To   D. By

54. It was a long walk, so he began moving slowly_____the town.

A. For   B. Towards   C. Until   D. At

Direction (Q 55-57) In the given sentence replace the phrase printed in **bold** type to make the grammatically correct
55. The man **to who I sold** my house was a cheat.
(a) to whom I sell   (b) to who I sell   (c) who was sold to   (d) to whom I sold

56. There are not many men who are so famous that they are frequently referred to by their **short names** only

(a) initials   (b) signatures   (c) pictures   (d) middle name

57. They **were all shocked at** his failure in the competition.
(a) were shocked at all   (b) had all shocked at   (c) had been all shocked on   (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:** Some actors are singers. All the singers are dancers.
    Conclusions: 1. Some actors are dancers.

              2. No singer is actor.
    (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:** All the harmoniums are instruments. All the instruments are flutes.
    Conclusions: 1. All the flutes are instruments.
              2. All the harmoniums are flutes.
    (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:** In a one day cricket match, the total runs made by a team were 200. Out of these 160 runs were made by spinners.
Conclusions: 1. 80% of the team consists of spinners.
              2. The opening batsmen were spinners.
    (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 old order changed yielding place to new.
    Conclusions: 1. Change is the law of nature.
              2. Discard old ideas because they are old.
    (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 India encourage exports, when most things are insufficient for internal use itself?
    Arguments: 1. Yes. We have to earn foreign exchange to pay for our imports.
                   2. No. Even selective encouragement would lead to shortages.
(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 all the drugs patented and manufactured in Western countries be first tried out on sample basis before giving licence for sale to general public in India?
Arguments: 1. Yes. Many such drugs require different doses and duration for Indian population and hence it is necessary.
             2. No. This is just not feasible and hence cannot be implemented.
(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:** A large number of people in ward X of the city are diagnosed to be suffering from a fatal malaria type.
Courses of Action: 1. The city municipal authority should take immediate steps to carry out extensive fumigation in ward X.
                       2. The people in the area should be advised to take steps to avoid mosquito bites.
(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:** Severe drought is reported to have set in several parts of the country.
Courses of Action: 1. Government should immediately make arrangement for providing financial assistance to those affected.
                       2. Food, water and fodder should immediately be sent to all these areas to save the people and cattle.
(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. 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

67. "Magnus Carlsen" is a player of which among the following sports / games?

(a) Cricket   (b) Carrom   (c) Chess   (d) Tennis

68. 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

69. Birdie" and "Eagle" are two terms related to which of the following sports?
(a) Polo   (b) Golf   (c) Chess   (d) Billiards

70. Who among the following was first Rajiv Gandhi Khel Ratna?
(a) Viswanathan Anand   (b) Geet Sethi   (c) Karnam Malleswari   (d) Nameirakpam Kunjarani

71. 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

72. "National Football Museum" which keeps FIFA collection is located in which country?
(a) Switzerland   (b) Canada   (c) England   (d) France

73. Who was the first Indian International Cricket Council President?
(a) Sharad Pawar   (b) Jag Mohan Dalmiya   (c) Ray Mali   (d) Gavaskar

74. Which was the first brand, Sachin Tendulkar endorsed in the beginning of his career?
(a) Boost   (b) Pepsi   (c) Nike   (d) None of them

75. In Kho-Kho , the players occupying the squares are known as_____?
(a) Lobby   (b) Raiders   (c) Chasers   (d) Chukker

76. In which year Mission Olympics in Army programme was launched?
(a) 1999   (b) 2000   (c) 2001   (d) 2002

77. 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

78. In which of the following sports/ games the term Interference is used?
(a) Golf   (b) Chess   (c) Squash   (d) Table Tennis

79. Rungrado May Day Stadium is located in which country?
(a) Thailand   (b) China   (c) North Korea   (d) South Korea

80. Dempo Sports Club is a sports club , one of the most prominent football team of India is based in_____?
(a) Kolkata   (b) Panjim   (c) Guwahati   (d) Bangalore

81. Which Chinese E-Commerce firm has become top sponsor of Olympic Games through 2028 –
(a) Alibaba group   (b) Snapdeal   (c) Nykaa   (d) Myntra

82. Who has been named the world's best player at the inaugural best FIFA football awards 2016 in Zurich Switzerland

(a) Lionel Messi   (b) Cam Newton   (c) Luis Suarez   (d) Cristiano Ronald

83. Which football player has been voted as the best playmaker in the world for 2016 –
(a) Harry Kane   (b) Lionel Messi   (c) Paul Pogba   (d) Marcelo Vieira

84. The word "Agricultural shot" is known to be used sometimes in which among the following sports?
(a) Cricket   (b) Hockey   (c) Golf   (d)Polo

85. Which among the following country is the host of 2018 Commonwealth Games?
(a) Canada   (b) England   (c) Australia   (d) India

86. The World Military Cup organized by the International Military Sports Council (CISM) involves which among the following sports?
(a) Cricket   (b) Foot ball   (c) Volley Ball   (d) Basket Ball

87. Which of the following Indian Sports Team is also known as "The Bhangra Boys?
(a) Cricket Team   (b) Hockey Team   (c) Kabaddi Team   (d) Football Team

88. Which among the following players of India was famous as "Pocket Dynamo"?
(a) Leander Paes   (b) Vijender Singh   (c) KD Jadhav   (d) Gurbux Singh

89. What is the other name of Sir Garfield Sobers Trophy?
(a) ICC Cricketer of the Year Awards   (b) ICC Test Captain of the Year
(c) Spirit of the Cricket Awards   (d) Test player of the year Award

90. Which among the following is not given as "Life Time Achievement" Award in India?
(a) Dada Saheb Phalke Award   (b) Dhyanchand Award
(c) Tenzing Norgay National Adventure Awards   (d) Dronacharya Award