



### Analytical and Logical Reasoning Section

For all the questions in this section, correct answer carries 2 marks each.

41. There are 3 societies A,B,C having some tractors each.  
 A gives B and C as many tractors as they already have.  
 After some days B gives A and C as many tractors as they have.  
 After some days C gives A and B as many tractors as they have.  
 Finally each has 24 tractors. What is the original No. of tractors each had in the beginning?

- a. A-29, B-21, C-12  
 b. A-39, B-21, C-12  
 c. A-21, B-12, C-29  
 d. A-21, B-12, C-39

C	A	B	
46	12	12	
24	6	42	39
12	39	21	234

42. Although most of the fastest growing jobs in today's economy will require a college degree, many of the new jobs being created-from home health aide to desktop publisher-require knowledge other than that gained from earning a degree. For workers in those jobs, good basic skills in reading, communication, and mathematics play an important role in getting a job and developing a career.

From the information given above it can be validly concluded that, in today's economy,

- a. skills in reading, communication, and mathematics play an important role in developing a career as a desktop publisher.  
 b. the majority of the new jobs being created require knowledge other than that gained from earning a college degree.  
 c. a job as a home health aide will rely more on communication skills than on basic skills in reading and mathematics.  
 d. if a job is one of the fastest growing jobs, it will require a college degree.

43. According to the National Agricultural Aviation Society (NAAS), without the use of crop protection products to control insects, weeds, and diseases, crop yields per acre will drop by more than 50 percent. The first aerial application of insecticide occurred in 1921, and it was a huge success. By contrast, in today's economy all aircraft that are classified as aerial applicators do more than just apply insecticide; today, they also spread seed and apply fertilizer.

From the information given above it CANNOT be validly concluded that

- a. according to the NAAS, if crop yields per acre never drop by more than 50 percent, then crop protection products have been used to control insects, weeds, and diseases  
 b. in today's economy, any aircraft that cannot be used to apply fertilizer cannot be classified as an aerial applicator  
 c. in today's economy, if an aerial applicator is used, then it will be able to spread seed and to apply fertilizer  
 d. according to the NAAS, if crop yields per acre drop by more than 50 percent, then crop protection products have not been used to control insects, weeds, and diseases.

44. Lou observes that if flight 409 is cancelled, then the manager could not possibly arrive in time for the meeting. But the flight was not cancelled. Therefore, Lou concludes, the manager will certainly be on time. Evelyn replies that even if Lou's premises are true, his argument is fallacious. And therefore, she adds, the manager will not arrive on time after all.

Which of the following is the strongest thing that we can properly say about this discussion?

- a. Evelyn is mistaken in thinking Lou's argument to be fallacious, and so her own conclusion is unwarranted.
- b. Evelyn is right about Lou's argument, but nevertheless her own conclusion is unwarranted.
- c. Since Evelyn is right about Lou's argument, her own conclusion is well supported.
- d. Since Evelyn is mistaken about Lou's argument, her own conclusion must be false.

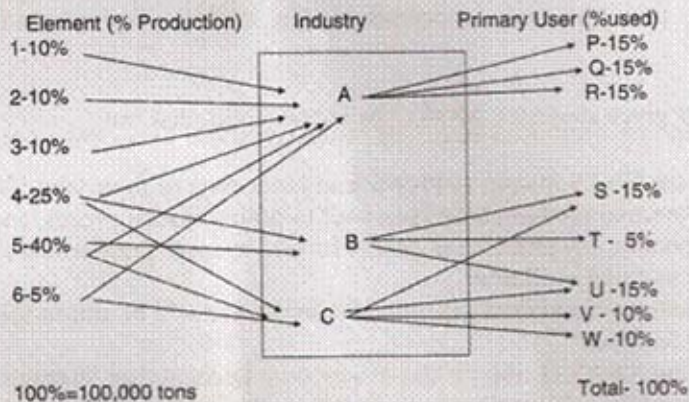
45. Cars are safer than planes. Fifty percent of plane accidents result in death, while only one percent of car accidents result in death.

Which of the following, if true, would most seriously weaken the argument above?

- a. Planes are inspected more often than cars.
- b. The number of car accidents is several hundred thousand times higher than the number of plane accidents.
- c. Pilots never fly under the influence of alcohol, while car drivers often do.
- d. Plane accidents are usually the fault of air traffic controllers, not pilots.

Directions for Question Nos. 46-48

Refer to the chart below showing annual production and answer the questions that follow.





46. Which industry /industries contribute /contributes to company S?  
 a. Industry A and B only  
 b. B and C only  
 c. A and C only  
 d. B only
47. Industry B processes what percentage of the total production of listed elements?  
 a. 25%  
 b. 65%  
 c. 40%  
 d. Cannot be determined
48. Of the listed elements processed by the Industry A, how many tons are produced annually?  
 a. 30,000  
 b. 50,000  
 c. 1,00,000  
 d. 55,000

#### Directions for Question Nos. 49-52

In each of the following questions there are two blanks marked I & II. The words to fill in these blanks are given against I as (A, B, C, D) and II as (P, Q, R, S) respectively. The right words to fill in these blanks are given as four alternatives. The words on either side of the sign (::) have a similar relationship. That alternative which signifies this relationship is your answer.

49. I : Increase :: Descend : II

I - A) Grow B) Ascend C) Rise D) Price  
 II - P) Reduce Q) Down R) Decrease S) Mountain

- a. AR                      b. RB                      c. CP                      d. DQ

50. Modern : I :: II : Old

I - A) Ancient B) Death C) Famous D) Civilization  
 II - P) Industrialisation Q) Young R) Fashion S) Western

- a. AQ                      b. AS                      c. BP                      d. CR

51. Part : I :: Class : II

I - A) Section B) Whole C) School D) Students  
 II - P) Student Q) School R) Teachers S) Rooms

- a. AR                      b. BQ                      c. CP                      d. DS

52. Summit : Apex :: I : II  
 I - A) beautiful      B) Picture      C) Attractive      D) Enchanting  
 II - P) Comfortable      Q) Pretty      R) Healthy      S) Brave
- a. AQ      b. BP      c. DS      d. CR

53. If in a certain code, BEAUTIFUL is coded as 573041208, BUTTER as 504479, how is FUTURE coded in that code?  
a. 5 | a1
- a. 201497  
 b. 204097  
 c. 704092  
 d. 204079
- B = 5  
U = 0  
R = 1

54. How many Mondays are there in a particular month of a particular year if the month ends on Wednesday?  
28
- a. 4  
 b. 5  
 c. 3  
 d. Cannot be specified.
- 29  
30  
31

**Directions for Question Nos. 55-56**

There are two rows of numbers in each question. The upper row is complete and in the lower row one number is missing. Find a suitable number to fill the blank space so that the symmetry with the upper row is maintained

55. 

17	102	12
15	?	10

 a. 211      b. 75      c. 117      d. 117

56. 

12	336	14
15	?	16

 a. 220      b. 480      c. 125      d. 450

**Directions for Question Nos. 57-58**

Seven People A,B,C,D,E,F,G are planning to enjoy boating. There are only two boats, and the following conditions are to be kept in mind.

- (I) A will go in the same boat in which E is to go.
- (II) F cannot go in the boat in which C is, unless D is also accompanying.
- (III) Neither B nor C can be given the boat in which G is.
- (IV) The maximum number of persons in one boat can be four only.

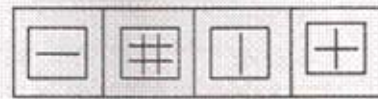
57. If F and B are in one boat, which of the following statements is true?  
 a. G is in the other boat  
 b. D is in the other boat  
 c. C is in the other boat  
 d. E is with F and B in one boat

58. If E gets the boat with F, which of the following is the complete and accurate list of the people who must be sitting in other boat?
- a. F and E
  - b. G and A
  - c. D and A
  - d. C, D and B

**Directions for Question Nos. 59-60**

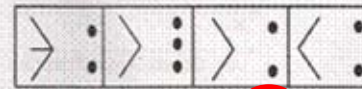
A series of figures has been shown on the left. Find the figure in the place of ? from the figures on the right.

59



a. b. c. d.

60



a. b. c. d.

61. Complete the following series.

(GMSY, IOVA, KQWC, ?)

- a. MSYE
- b. NSYE
- c. MYTE
- d. MSYF

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**Directions for Question Nos. 62 – 65**

Following is a new plan called 'Airtel One', introduced by Airtel (GSM service Provider) for its post-paid customers.

Pulse Rate	60 Secs		
Price of Plan	Rs 99		
Free Airtime on Plan	Nil		
Incoming Calls(Rs)	Free		
Outgoing Calls (Rs/minute)	Airtel	GSM/CDMA	Landline / WLL
		(10 Digit)	
LOCAL RATES	Rs.1	Rs.1	Rs.2
STD RATES			
50-200 KM	Rs 1.50	Rs 1.50	Rs 2
200-500 KM	Rs 1.50	Rs 2.50	Rs 2.50
500+ KM	Rs 1.50	Rs 3.00	Rs 3.50
ISD			
USA, Canada, Europe(Fixed Line)	Rs.7		
Gulf, Europe( Mobile)SAARC	Rs.10		
Rest of the world	Rs.40		
SMS			
Local	Rs 1.50		
National	Rs 2.00		
International	Rs 5.00		
Value Added service(Rs)	Rs 3.00 and Rs 6.00 Depending on the service		
Monthly bill=Call Charges + SMS Charges +Price of Plan			

62. If Mohan made STD calls (within 100 Kms ) for 30 min and spent 100 min on local calls with 30% on landline, 40 % on GSM and 30% on Airtel, and Rohan spent 18 min on STD within 150 Kms and spent 120 min on local calls with 30%,40% and 30% on GSM, landline and Airtel respectively, then who spent more ?
- Mohan
  - Rohan
  - Both spent the same amount.
  - Cannot be determined.

$$1.50x + 8(18-x)$$

$$= 36 - 0.62$$

$$\frac{40x}{40x + 100} = \frac{4}{5}$$

$$40x = 4(100 + 40x)$$

$$40x = 400 + 160x$$

$$-120x = 400$$

$$x = -\frac{10}{3}$$

63. A new SMS scheme was introduced @60p/local SMS, with an additional monthly charge of Rs. 35. Who will not benefit from the scheme? A person sending

- a. 38 local SMS a month
- b. 40 local SMS a month
- c. 60 local SMS a month
- d. 59 local SMS a month

$$1.50x > 35 + 0.6x$$

$$0.9x > 35$$

$$x > \frac{35}{0.9} = \frac{350}{9} \approx 38.8$$

64. A bill of Rs 199/Month is definitely not possible when you make only

- a. 30 calls to airtel on STD(500+Kms) and 55 local calls in a month
- b. 16 calls to airtel on STD (15Kms) and 76 local calls in a month
- c. 10 STD calls (250 Kms) each to Airtel, GSM and landline respectively and 30 locals in a month
- d. 8,4 and 7 calls to Airtel, GSM and landline respectively on STD( 500+Kms) and 55 local calls in a month

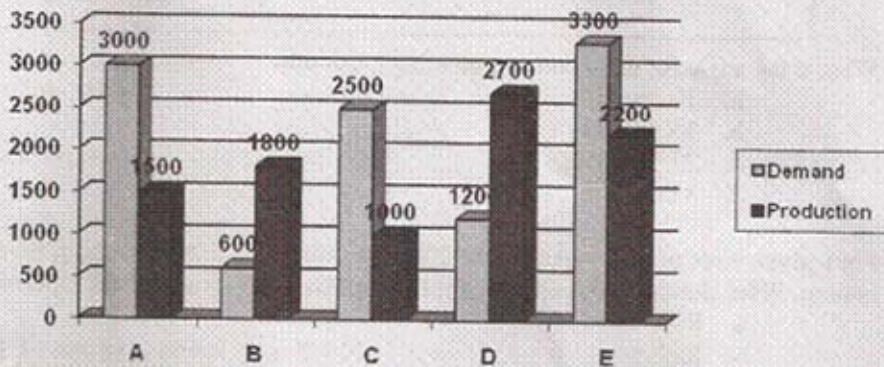
$$\frac{12}{100} \cdot \frac{51}{34} = 0.485$$

65. A person makes 12 minutes of ISD calls in a month. If 80% of his ISD bill came from calling the rest of the world, then the ISD calls for the minimum duration were made to which of the following group of countries?

- a. USA, Canada, Europe (Fixed Line)
- b. Gulf, Europe (Mobile), SAARC
- c. Rest of the world
- d. Cannot be determined.

Directions for Question Nos. 66-67

These questions are based on the graph which shows the demand and production statistics of 5 T.V. companies .



66. What is the difference between the average demand and the average production of the five companies taken together?

- a. 1400
- b. 400
- c. 280
- d. 138

$$\frac{10600}{5} = 2120$$

$$\frac{8600}{5} = 1720$$

$$2120 - 1720 = 400$$

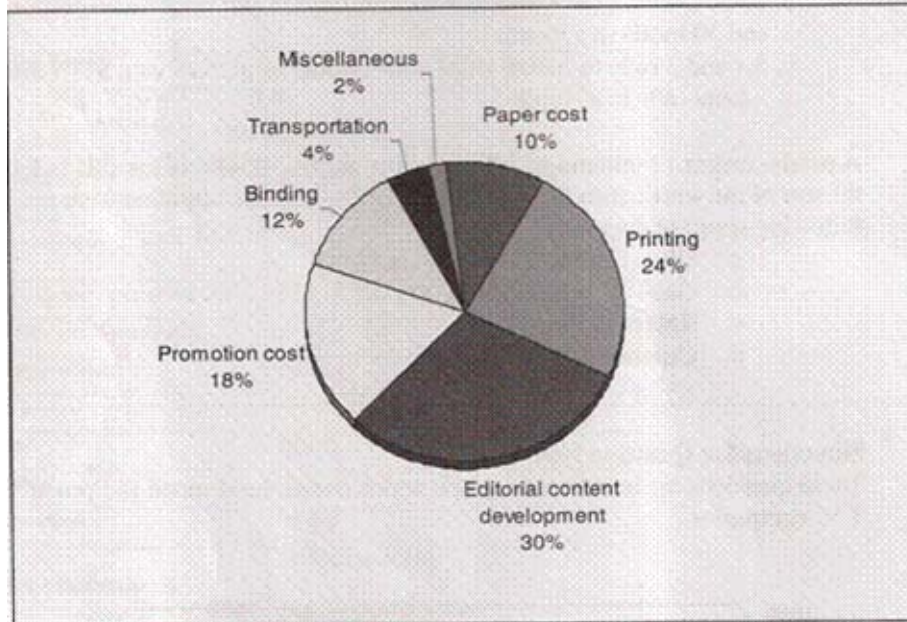
$$\frac{7300}{5} = 1460$$

$$\frac{3600}{5} = 720$$

$$1460 - 720 = 740$$

Questions for Question Nos. 68-69

Following questions are based on the pie-chart given below which gives the expenditure in printing a magazine:



68. What is the angle for the sector representing paper cost?
- a. 10 degree      **b. 36 degree**      c. 23.5 degree      d. 45 degree
69. For a given issue of the magazine, the 2% of the cost is Rs.2,000 and the print run is 12,500 copies. What should be the sale price if the publisher desires a profit of 5 percent?
- a. Rs.5      b. Rs.7.5      c. Rs.8      **d. Rs.8.40**
70. If 'water' is called 'food', 'food' is called 'tree', 'tree' is called 'sky', 'sky' is called 'wall', on which of the following does a 'fruit' grow?
- a. Water      b. Food      c. Tree      **d. Sky**