PART - II : INTELLIGENCE AND CRITICAL REASONING

41. There are six persons in a family namely 'A', 'B', 'C', 'D', 'E' and 'F'. 'C' is the sister of 'F'. 'B' is the brother of 'E's husband. 'D' is the father of 'A' and grandfather of 'F'. How is 'D' related to 'C' ?
(1) Father
(2) Uncle
(3) Grandfather
(4) Brother

42. Sakshi, Rajender and Surinder are the children of Mr. and Mrs. Aggarwal. Renu, Rajan and Sunil are the children of Mr. and Mrs. Bhasker. Sunil and Sakshi are married and Anil and Sanjay are their children. Geeta and Ramesh are the children of Mr. and Mrs. Gupta. Geeta is married to Surinder and Rajni. Sonu and Raju are their children. Rahul and Mahender are the children of Mr. and Mrs. Saxena. Rahul is married to Renu and Bindu and Rani are their children. How is "Rajender' related to 'Rajni' ?
(1) Brother (2) Brother-in-law
(3) Cousin (4) Uncle

43. In a joint family, Amrit is the son of Raman. Sarita, Raman's sister has a son Sanchay and a daughter Reena. Rajan is the maternal uncle of Sanchay. How is Amrit related to Sanchay ?
(1) Brother
(2) Brother-in-law
(3) Nephew
(4) Cousin

44. Rajesh walked 25 metres towards South. Then he turned to his left and walked 20 metres. He then turned to his left and walked 25 metres. He again turned to his right and walked 15 metres. At what distance is he from the starting point and in which direction ?
(1) 35 metres – East
(2) 60 metres – East
(3) 35 metres – North
(4) 40 metres – East

45. A man starts from a point and moves 3 km North, then turns to West and goes 2 km. He turns North and walks 1 km and then moves 5 km towards East. How far is he from the starting point ?
(1) 11 km
(2) 5 km
(3) 10 km
(4) 8 km

46. The door of Aditya's house faces the East. From the back side of his house, he walks straight 50 metres, then turns to the right and walks 50 metres again. Finally, he turns towards left and stops after walking 25 metres. Now, Aditya is in which direction from the starting point ?
(1) South – East
(2) North – East
(3) South – West
(4) North – West

Directions (47-50) : *Each of these questions has an Assertion (A) and a Reason (R). Mark answer as*
(1) if both (A) and (R) are true and (R) is the correct explanation of (A).
(2) if both (A) and (R) are true, but (R) is not the correct explanation of (A).
(3) if (A) is true, but (R) is false.
(4) if (A) is false, but (R) is true.

47. Assertion (A) : Indian National Flag is known as tricolour.
Reason (R) : Indian National Flag has three colours.

48. Assertion (A) : Punjab is known as granary of India.
Reason (R) : Punjab is a leading producer of wheat in India.

49. Assertion (A) : The North-eastern part of India is known as 'Seven Sisters'.
Reason (R) : North-east India comprises seven states.

50. Assertion (A) : There was no country known as 'Bangladesh' when India was partitioned in 1947.
Reason (R) : 'Bangladesh' was a part of Pakistan at the time of partition of India in 1947.

Directions (51–53) : *Each of these questions has a statement followed by two conclusions I and II. Consider the statement and the following conclusions. Decide which of the conclusions*

follows from the statement. Mark answer as

(1) if conclusion I follows.
(2) if conclusion II follows
(3) if **either** conclusion I **or** II follows.
(4) if **neither** conclusion I **nor** II follows.

51. **Statement** : Good voice is a natural gift but one has to keep practising to improve and excel well in the field of music.
Conclusions :
I. Natural gifts need nurturing and care.
II. Even though your voice is not good, one can keep practising.

52. **Statement** : Domestic demand has been increasing faster than the production of indigenous crude oil.
Conclusions :
I. Crude oil must be imported.
II. Domestic demand should be reduced.

53. **Statement** : Until our country achieves economic equality, political freedom and democracy would be meaningless.
Conclusions :
I. Political freedom and democracy go hand in hand.
II. Economic equality leads to real political freedom and democracy.

Directions (54–56) : *Read the following information to answer these questions.*
A and B are good at Volleyball and Hockey. C and A are good at Baseball and Hockey. D and B are good at Volleyball and Cricket. C, D and E are good at Baseball and Football.

54. Who among these five players is good at four games ?
(1) B (2) A
(3) D (4) C

55. Who is good at Hockey, Volleyball and Baseball ?
(1) D (2) A
(3) B (4) C

56. Who is good at Cricket, Hockey and Volleyball ?
(1) D (2) A
(3) B (4) C

Directions (57–59) : *Read the following information to answer these questions.*
Five courses '1', '2', '3', '4' and '5', each of one month duration, are to be taught from June to October, one after the other though not necessarily in the same order/sequence by professors 'L', 'M', 'N', 'O', 'R'. 'L' teaches course '2' but not in the month of September or October. 'M' teaches course '1' in the month of August. 'N' teaches in the month of June but does not teach course '3' or course '4'. 'R' teaches course '4' in the month of September.

57. Which course is taught by 'O' ?
(1) 2 (2) 5
(3) 3 (4) 1

58. Which course is taught in the month of June ?
(1) 1 (2) 3
(3) 5 (4) 4

59. Which course is taught in the month of July ?
(1) 5 (2) 4
(3) 3 (4) 2

Directions (60-62) : *Read the following information to answer these questions.*
Five friends A, B, C, D and E are studying in a college. B and E are good at Geography and Economics. A and B are good at Economics and Physics. A, D and C are good at Physics and Chemistry. C and A are good at Physics and Mathematics. D and E are good at Chemistry and Geography.

60. Who is good at Physics, Chemistry and Geography ?
(1) A (2) B
(3) D (4) E

61. Who is good at Physics, Chemistry and Mathematics but not in Economics ?
(1) A (2) B
(3) C (4) D

62. Who is good at Chemistry, Physics, Mathematics and Economics ?
(1) B (2) A
(3) C (4) D

Directions (63-65) : *Read the following information to answer these questions.*
Five friends namely Kiran, Geeta, Honey, Ramesh and Jagan have very good characteristics and are being considered for various awards. Geeta, Kiran and Honey are sincere. Kiran, Ramesh and Jagan are very brave. Ramesh, Honey and Jagan are very truthful. Kiran, Geeta and Jagan are courteous.

63. Which of the following persons is neither brave nor courteous ?
(1) Kiran (2) Geeta
(3) Honey (4) Ramesh

64. Which of the following persons is neither truthful nor brave but is courteous ?
(1) Honey (2) Ramesh
(3) Kiran (4) Geeta

65. Which combination of friends is not 'Brave' but 'Sincere'?
(1) Geeta and Kiran
(2) Jagan and Honey
(3) Honey and Ramesh
(4) Geeta and Honey

Directions (66-68) : *Read the following information to answer these questions.*
In a cricket match season, West Indies defeated New Zealand four times, India defeated New Zealand three times, Australia defeated West Indies three times, West Indies defeated India only once and India defeated Australia once.

66. Which country lost most of the times ?
(1) India
(2) West Indies
(3) New Zealand
(4) Australia

67. Australia defeated the opponents how many times during the cricket match season ?
(1) 2 (2) 3
(3) 1 (4) 5

68. India defeated the opponents how many times during the cricket match season ?
(1) 3 (2) 4
(3) 2 (4) 5

Directions (69-71) : *In each of these questions, two statements I and II are given. These may have a cause and effect relationship or may have independent causes or be the effects of independent causes. Read the statements and mark answer as :*

(1) if statement I is the cause and statement II is its effect.
(2) if statement II is the cause and statement I is its effect.
(3) if both the statements I and II are effects of independent causes.
(4) if both the statements I and II are effects of some common cause.

69. Statement I : British surgeons have carried out what they claim is the world's first lung transplant on a 20-year-old woman patient Becky Jones who was suffering from two fungal conditions in the lungs.
Statement II : Lung transplant patients have never before been able to have the transplant operation while suffering from aspergillums and multiple fungal balls. Jones is in perfect health and is able to breath freely again.

70. Statement I : A recent study by Harvard has revealed a higher risk for people with excessive television habits of developing type 2 diabetes, cardiovascular disease and premature death.
Statement II : We should not only promote increasing physical activity levels but also reduce sedentary behaviours, especially prolonged TV watching. Americans spend an average of five hours before the idiot box.

71. Statement I : Researchers at La Trobe University have found out that drinking around 5 cups of coffee or more a day may be good enough to increase one's tendency to hallucinate because of presence of caffeine in it.
Statement II : 'Hallucination' is an illusion of seeing or hearing something which is actually not present. Coffee and other beverages such as tea, soft-drinks and energy drinks access the stimulant when taken in large quantities.

Directions (72-75) : *Each of these questions consists of a pair of words bearing a certain relationship. From amongst the alternatives, pick up the pair that best illustrates a similar relationship.*

72. Border : Country
(1) Pen : Cap
(2) Book : Cover
(3) Handle : Shade
(4) Frame : Picture

73. Bird : Cage
(1) Antique : Museum
(2) Crime : Punishment
(3) Thief : Prison
(4) Animals : Zoo

74. Traffic : Road
(1) Aeroplane : Aerodrome
(2) Roots : Tree
(3) Blood : Veins
(4) Car : Garage

75. Paper : Ream
(1) Eggs : Dozen
(2) Books : Pile
(3) Twigs : Bush
(4) Food : Packet

Direction (76-80) : *Complete the series by replacing the "?" mark.*

76. ZAJ, YBK, XCL, WDM, "?"
(1) VEN (2) VFM
(3) VEM (4) VNO

77. BGF, CHG, DIH, EJI "?"
(1) FLM (2) FKL
(3) FKJ (4) FJK

78. GHIZ, JKLY, MNOX, "?", STUV
(1) OPQY (2) PQRS
(3) PQRW (4) PQRV

79. ZXV, TRP, NLJ, "?"
(1) KIH (2) HFD
(3) NGF (4) FDC

80. ACE, GIK, NPR, "?"
(1) STU (2) TUV
(3) VWX (4) VXZ

PART - III : MATHEMATICAL SKILLS

81. Two persons A and B are at two places P and Q, respectively. A walks at 'v' km/h and B is 2 km/h faster than A, starting simultaneously from where they stand. If they walk towards each other, they meet in 72 minutes. If they walk in the same direction, the faster overtakes the slower in 6 hours. What are their respective speeds in km/h ?
(1) 3 and 5
(2) 4 and 6
(3) $2\frac{1}{2}$ and $4\frac{1}{2}$
(4) $3\frac{1}{2}$ and $5\frac{1}{2}$

82. Two trains starting at the same time from two stations 240 km apart and going in opposite directions cross each other at a distance of 160 km from one of the stations. What is the ratio of their speeds ?
(1) 2 : 1 (2) 2 : 3
(3) 1 : 3 (4) 1 : 4

83. It takes eight hours for a 600 km journey, if 120 km is done by train and the rest by car. It takes 20 minutes more, if 200 km is done by the train and the rest by the car. The ratio of the speed of the train to that of the car is :
(1) 2 : 3 (2) 3 : 2
(3) 3 : 4 (4) 4 : 3

84. A person has to cover a distance of 6 km in 45 minutes. If he covers half of the distance in two-thirds of the total time, to cover the remaining distance in the remaining time, his speed must be :
(1) 6 km/h (2) 8 km/h
(3) 12 km/h (4) 15 km/h

85. An automobile financier claims to be lending money at simple interest, but he includes the interest every 4 months for calculating the principal, if he is charging an interest of 12%, the

effective rate of interest is approximately :
(1) 13.25% (2) 12.5%
(3) 12.75% (4) 13.5%

86. A borrowed ₹ 4,800/- from B at 9% per annum simple interest for 3 years. He then added some more money to the borrowed sum and lent it to C for the same period at 12% per annum simple interest. If A gains ₹ 720/- in the whole transaction, how much money did he add from his side ?
(1) ₹ 500/- (2) ₹ 740/-
(3) ₹ 640/- (4) ₹ 800/-

87. If the rate of interest be 5% per annum for first year, 8% per annum for second year and 12% per annum for third year, then the compound interest of ₹ 8,000/- for 3 years will be :
(1) ₹ 2,055.16/-
(2) ₹ 1,480.24/-
(3) ₹ 2,160.64/-
(4) ₹ 1,350.36/-

88. A man borrows ₹ 5,000/- from a bank at 8% per annum compound interest. At the end of every year he pays ₹ 1,000/- as a part payment of loan and interest. How much does he still owe to the bank after three such instalments ?
(1) ₹ 3,052.16/-
(2) ₹ 3,442.20/-
(3) ₹ 3,616.84/-
(4) ₹ 3,824.40/-

89. A solid cylinder of lead 8 m and 2 m radius is melted and recast into a cone of radius 1.5 m. What is the height of the cone ?
(1) 16.67 m (2) 21.35 m
(3) 42.67 m (4) 31.35 m

90. A report consists of 20 sheets each of 55 lines and each such line consist of 65 characters. This report is reduced onto sheets each of 65 lines such that each line consists of 70 characters. The percentage reduction in number of sheets is closer to :
(1) 20% (2) 5%
(3) 30% (4) 35%

91. Out of the total production of iron from hematite, an ore of iron, 20% of the ore gets wasted, and out of the remaining iron, only 25% is pure iron. If the pure iron obtained in a year from a mine of hematite was 80,000 kg then the quantity of hematite mined from that mine in the year is :
(1) 5,00,000 kg
(2) 4,00,000 kg
(3) 4,50,000 kg
(4) 4,00,500 kg

92. An express train without its rake can go 24 km an hour, and the speed is diminished by a quantity that varies as the square root of the number of wagon attached. If it is known that with four wagons its speed is 20 km/h, the greatest number of wagons with which the engine can just move is :
(1) 143 (2) 140
(3) 135 (4) 210

93. There are 6 boxes numbered 1, 2, 3, 4, 5, 6. Each box is to be filled up either with a red or a green ball in such a way that atleast 1 box contains a green ball and the boxes containing green balls are consecutively numbered. The total number of ways in which this can be done is :
(1) 60 (2) 33
(3) 21 (4) 5

94. 'N' persons stand on the circumference of a circle at distinct points. Each possible pair of persons, not standing next to each other, sings a two-minute song, one pair after the other. If the total time taken for singing is 28 minutes, what is 'N'?
(1) 5 (2) 7
(3) 9 (4) None of these

95. 36 identical chairs must be arranged in rows with the same number of chairs in each row. Each row must contain atleast three chairs and there must be atleast three rows. A row is parallel to the front of the room. How many different arrangements are possible ?
(1) 2 (2) 4
(3) 5 (4) 6

96. In an examination, A obtains 10 percent less than the minimum number of marks required for passing. B obtain $11\frac{1}{9}$ percent less than A. C obtain $41\frac{3}{17}$ percent less than the number of marks obtained by A and B together. Does C pass the exam or fail ?
(1) Pass
(2) Fail
(3) Cannot be determined
(4) None of these

97. From a well-shuffled pack of 52 cards, 3 cards are drawn successively, the first being replaced before the second is drawn and the second being replaced before the third is drawn. The probability that the first is black, the second is diamond and the third is ace, is :
(1) $\frac{1}{104}$ (2) $\frac{1}{52}$
(3) $\frac{1}{26}$ (4) $\frac{1}{13}$

98. In a class, there are equal number of boys and girls. Two students are selected for a game. If the probability that the two students are girls $\frac{7}{29}$, then what is the strength of the class ?
(1) 15 (2) 30
(3) 90 (4) 60

99. Two squares of size 1×1 are selected one after another from an 8×8 chessboard. The probability that the two squares belong to different rows and different columns, is :
(1) $\frac{1}{6}$ (2) $\frac{5}{36}$
(3) $\frac{29}{36}$ (4) $\frac{7}{9}$

100. Geeta was asked to multiply a two-digit number P by a three-digit number Q. But she mistakenly multiplied P by the number formed by writing the digits of Q in the reverse order, thereby getting an answer which is 22770 more than the correct

answer. What is the minimum possible sum of the digits of Q?
(1) 8
(2) 5
(3) 6
(4) Cannot be detetrnined

101. 720 sweets were distributed equally amongst children, in such a way that number of sweets received by each child is 20% of the total number of children. How many sweets did each child received ?
(1) 12 (2) 14
(3) 11 (4) 15

102. 15% of the people eligible to vote are between 18 and 25 years of age. In an election, 75% of those eligible to vote, who are between 18 and 25, actually voted. In that election, the number of persons between 18 and 25, who actually voted was, what percent of those eligible to vote ?
(1) 12.50% (2) 10.75%
(3) 11.25% (4) 10.25%

103. What is the sum of the total surface areas of all the cubes formed when a cuboid of size 5.2 m × 13 m × 39 m is cut completely into the least possible number of cubes, all of which are identical?
(1) 6164 sq m (2) 6304 sq m
(3) 6084 sq m (4) 6760 sq m

104. A tank of capacity 1000 cubic centimeter is being filled with water by 3 pipes A, B and C. The areas of cross-section of the pipes A, B and C are in the ratio 3 : 2 : 4. Water is flowing through each of these pipes at a different rate in cm/min. It was found that the time taken to fill the tank, which was initially empty, by the pipes A, B and C individually is 20 minutes, 50 minutes and 25 minutes respectively. Find the ratio of the rates of flow of water through the pipes A and C.
(1) 20 : 9 (2) 5 : 3
(3) 3 : 5 (4) 9 : 20

105. Three men, four women and six children can complete a work in seven days. A woman does double the work a man does and a child does half the work a man does. How many women alone can complete the work in 7 days ?
(1) 7 (2) 8
(3) 12 (4) None of these

106. A can do a piece of work in 36 days, B in 54 days and C in 72 days. All the three began the work together but A and B left 8 days and 12 days before the completion of the work respectively. How many days in all did C put in till the entire work was finished ?
(1) 24 days (2) 29 days
(3) 20 days (4) 32 days

107. In a group of 5 boys, the 2nd boy is twice as efficient as the 1st boy. The 3rd boy is twice as efficient as the 2nd boy and so on. All of them working together will take 5 days to complete a job. How much extra time will the 2nd and 4th boys take working together as compared to the 5th boy working alone to complete the same job, approximately ?
(1) 3 days (2) 6 days
(3) 8 days (4) 10 days

108. How many hours will Anu, Shaan and Shreya take to finish their assignment together if Anu alone can do it in six hours more, Shaan alone can do it in one hour more and Shreya alone in twice the time ?
(1) 5 hours (2) $\frac{1}{3}$ hours
(3) $\frac{4}{5}$ hours (4) $\frac{2}{3}$ hours

109. Two pipes A and B can fill a tank separately in 20 hours and 30 hours respectively, while pipe C can empty it in 60 hours. Pipes A and B were kept open simultaneously for 12 hours. When a person reached the tank when it should have been full he observed that pipe C also remained open by mistake for these 12 hours. He immediately closed it. In what time will the tank get full after C is close ?
(1) 3 hours (2) 2 hours
(3) 2·4 hours (4) 3·6 hours

110. A large water tank gets filled from two pipes T_1 and T_2. T_1 alone can fill it in 50 minutes, while T_2 alone can fill it in one hour. If on any day T_2 starts working only after T_1 has been used for filling half the tank, then the time taken to fill the tank will be :
(1) $50+\frac{61}{2}$ minutes
(2) 110 minutes
(3) $\frac{1}{2}\left[\frac{1}{50}+\frac{1}{60}\right]$ minutes
(4) $\frac{150}{11}+25$ minutes

111. A tap takes 8 seconds to fill a jar and 6 minutes to fill a drum. Rahul has to fill the drum with the jar. First he fills the jar and then brings it to the drum and pours the water into the drum. The time taken to bring the jar from the tap to the drum is 10 seconds. Unfortunately, the jar develops a leak, which can empty the full jar in 40 seconds. What will be the minimum total time, required by Rahul to fill the drum ?
(1) $18\frac{1}{4}$ minutes
(2) 18 minutes
(3) 20 minutes
(4) $16\frac{2}{3}$ minutes

112. A company manufactures two products X and Y. One unit of X requires three units of material A and two units of material B while one unit of Y requires two units of material A and five units of material B. If 25 units of each product were to be produced, calculate the requirement of material (in units) B.
(1) 175 (2) 125
(3) 150 (4) 156

113. Three containers X, Y and Z have a capacities of 10, 20 and 30

litres respectively. X, which is empty is filled with water from Y. Y is then filled with the wine from Z. X is now emptied into Z. The entire operation is repeated. What would be the strength of wine in the container Z ?

(1) 33% (2) 25%
(3) 51% (4) None of these

114. A milkman diluted milk to an extent of 25% of the original volume of pure milk with water and priced it same as the cost price of milk. Part of the water evaporated and the volume was reduced to $\frac{23}{25}^{th}$ of the diluted volu- me. The profit percent to the milkman is :

(1) 23% (2) 25%
(3) 15% (4) 20%

115. The percentage volume of alcohol in three solutions M, N and O form a geometric progression in that order. If we mix the first, second and third solutions in the Volume ratio of 2 : 3 : 4, we obtain a solution containing 32% alcohol. If we mix them in the ratio 3 : 2 : 1 by volume, we obtain a solution containing 22% alcohol. What is the percentage of alcohol in M ?

(1) 6% (2) 12%
(3) 18% (4) 10%

116. The contents in beakers A and B are 90 litres of milk and 90 litres of water respectively. Now 30 litres of milk is taken from A and put into beaker B. After thoroughly mixing, 12 litres of the mixture is taken from B and put into beaker A. What is the percentage of water in beaker A ?

(1) 14.5% (2) 12.5%
(3) 15.5% (4) 17.5%

117. Three friends Kartik, Vivek and Sameer divide ₹ 1,105/- amongst them in such a way that if ₹ 10/-, ₹ 20/- and ₹ 15/- are removed from the sums that Kartik, Vivek and Sameer received respectively, then the share of the sums that they got will be in the ratio of 11 : 18 : 24. How much did Sameer receive ?

(1) ₹ 355/- (2) ₹ 495/-
(3) ₹ 624/- (4) ₹ 510/-

118. At the beginning of a term the ratio of the number of boys in a school under 15 years to those over 15 years age was 5 : 4. At the end of the term the ratio was 7 : 8 as 20 of the boys had reached the age of 15 years during the term. Find the total number of boys in the school, given that no boy left or was admitted during the term.

(1) 225 (2) 105
(3) 250 (4) 215

119. Chanda purchased two triangular plots, each of which had exactly two sides of length 100 m. Find the maximum possible difference of the perimeters of the two plots, if it is known that neither of the two plots is less than 4800 sq m in area.

(1) 20 m (2) 40 m
(3) 60 (4) None of these

120. There are two right pyramids with a square base. The two pyramids are similar in shape. The height of the first pyramid is 30 m and that of the smaller is 22.5 m. 36 men take 32 days to build the first pyramid. How many days would 54 men of the same efficiency take to build the second pyramid ?

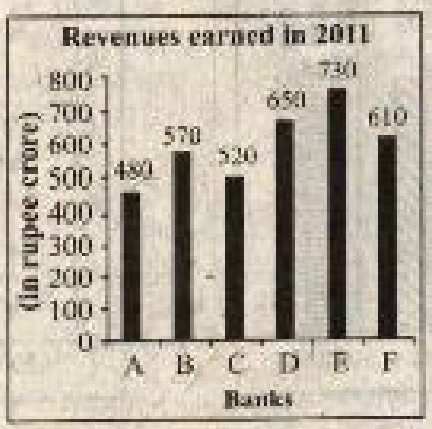
(1) 20 (2) 11
(3) 25 (4) 9

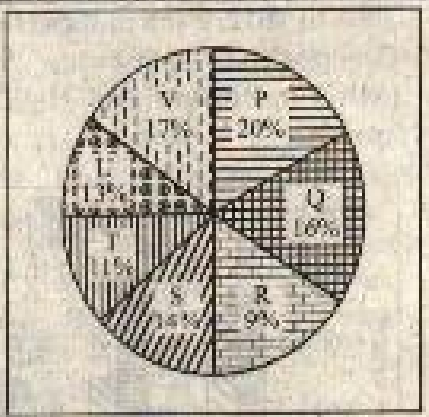
PART - IV : DATA ANALYSIS AND SUFFICIENCY

Directions (121-125) : *Study the graphs to answer these questions :*

The bar graph below shows the revenue generated by six banks during 2011. The pie chart shows the percentage distribution of revenue earned through different modes.

- P – Interest earned through Business Loans.
- Q – Interest earned through Home Loans.
- R – Interest earned through Personal Loans.
- S – Interest earned through Auto Loans.
- T – Interest earned through Deposits in other financial institute.
- U – Charges earned through Services.
- V – Charges earned through Other sources.





121. The bank that earned ₹ 104/- crores as interest from home loans in 2011 is :

(1) C (2) A
(3) B (4) D

122. Out of the total interest earned through business loans bank A and C earn 45% from small scale

industries (SSI) and the rest through cottage industries (CI) whereas B and D earn 55% from SSI and the rest through CI. Which bank earns the least through any of these industries ?

(1) A, through CI (2) D, through CI
(3) A, through SSI (4) D, through SSI

123. The interests earned through car (a subset of Auto loan) loan by B, D, E and F are in the ratio 2 : 3 : 3 4 and the total interest earned by these four banks for car loan is ₹ 36 crores. The bank that earned interest which is 8.8% of the interest earned by it through, Auto loans is :

(1) B (2) D
(3) E (4) F

124. Bank B and F earn interest by depositing their amounts in the financial institutes X, Y and Z. B earn interest from them in the ratio 2 : 3 : 1 and F in the ratio 4 : 3 : 3. By what percent F's earning from X is more/less than B's earning from X ?

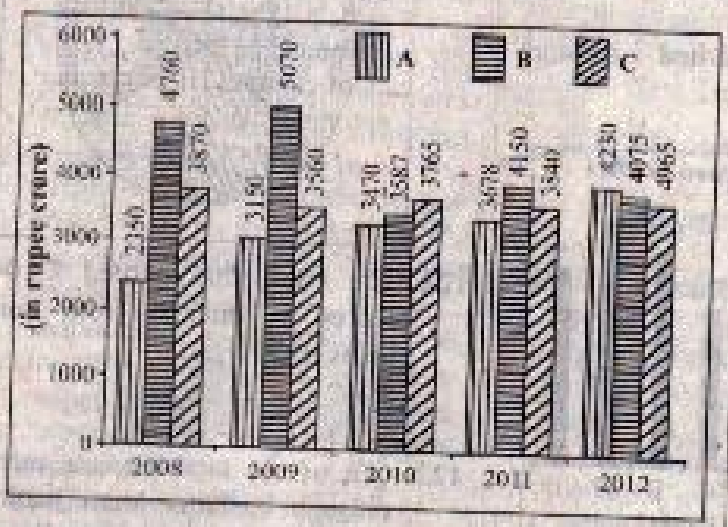
(1) 28.4% more (2) 26.13% less
(3) 28.4% less (4) 22.13% more

125. By what percent is the largest amount earned by a bank through U and V together more than the least amount through U and V together by any of these banks ?

(1) 34.25% (2) 52.08%
(3) 26.15% (4) 35.42%

Directions (126-130) : *Study the graph to answer these questions.*

The following bar graph shows the revenues generated by three realty firms A, B and C during 2008 to 2012. Each of these firms builds Low Income Group (LIG) apartments, Middle Income Group (MIG) apartments and High Income Group (HIG) apartments.



126. The firms A, B and C saw a rise of 15%, 6% and 9% respectively in 2008 from 2007. Whose revenue was least in 2007 ?

(1) A (2) B
(3) C (4) Equal revenues

127. In the year 2010 the firms B, A and C invested ₹ 2011 crore, ₹ 1600 crore and ₹ 2300 crore respectively. The difference between maximum and minimum profit percent in 2010 is :

(1) 38.58 (2) 53.17
(3) 14.6 (4) 51

128. By what percent should C increase its revenue in 2013 to make it 10% more than the average revenue of all the firms in 2012 ?

(1) 10% (2) 11.86%
(3) 13.47% (4) 17.34%

129. If the profit earned by A in 2011 is 1/6th of the average of the revenues of A in 2011, B in 2009 and C in 2008, the investment of A in 2011 is :

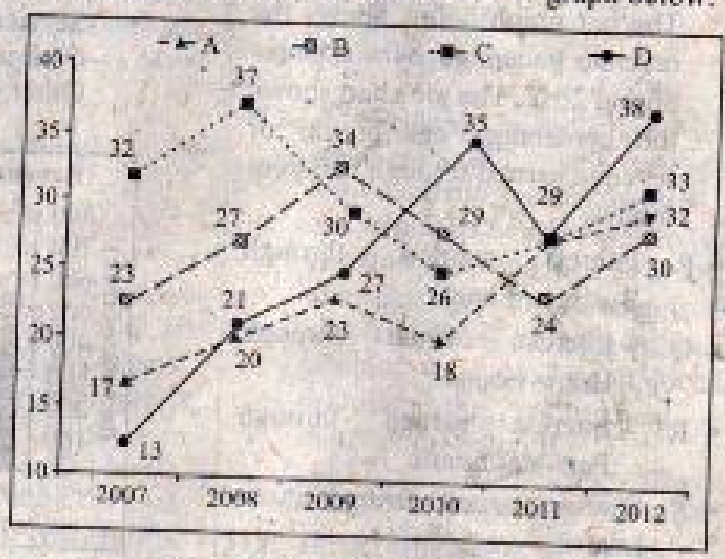
(1) ₹ 1,229 crore
(2) ₹ 893 crore
(3) ₹ 1,392 crore
(4) ₹ 2,977 crore

130. In 2009, A got 27% of its revenue through LIG housing whereas in the same year B earned 42% of its revenue through MIG housing. Both the companies spent ₹ 350 crore less than these revenues obtained. The difference in percentage profits thus earned by A and B is :

(1) 50.24% (2) 34.1%
(3) 23.6% (4) 15%

Directions (131-135) : *Study the graph to answer these questions :*

The percentage profits of four leading airliners A, B, C and D for six years is shown in the line graph below.



131. In 2007 company A invested ₹ 830 crore. Whereas C invested an amount which bears a ratio of 3 : 2 with that of A. The revenue generated by C in 2007 is :

(1) ₹ 1643·4 crore (2) ₹ 730·5 crore

(3) ₹ 1456·7 crore (4) ₹ 647·5 crore

132. The total revenue generated by all the companies in 2010 is ₹ 3600 crore. The revenue of C is 30% of the total revenue. The revenue generated by A, B and D in the same year is 7/25, 2/5 and 8/25 respectively of the remaining revenue. The maximum investment in that year is made by :

(1) A (2) C

(3) B (4) D

133. In 2011, companies B and D invested a total amount of ₹ 946 crore. They earned their revenues by carrying passengers and goods. The profit earned by B through passenger traffic is 43% of the total profit earned by B and and the remaining part through goods traffic. The profit earned by D through goods traffic is 38% of the total profit earned by it and the remaining part of the profit is through passenger traffic. If the investments made by them are in the ratio 5 : 6, the actual profit of B through goods traffic is more/less than the passenger traffic of D by :

(1) less by ₹ 46.44 crore

(2) more by ₹ 38.0808 crore

(3) less by ₹ 33.9528 crore

(4) more by ₹ 46.44 crore

134. In 2011, Airliner C invested an amount of ₹ 630 crore, $\frac{2}{3}$ of this amount was invested by B. A invested $\frac{3}{4}$ of the amount invested by B and D invested $1\frac{3}{5}$ of A in the same year. The revenue generated by A and D is more/less than that by B and C by :

(1) more by ₹ 276.99 crore

(2) more by ₹ 48.09 crore

(3) less by ₹ 48.09 crore

(4) less by ₹ 276.99 crore

135. In 2012 investment made by A is ₹ 437 crore. B invests 20% more than A, C invests 20% less than B and D invests 20% more than C. If the profit earned by earned by each is the average profit percent in 2012, who earns least revenue ?

(1) D (2) A

(3) B (4) C

Directions (136-140) : *Study the graph to answer these questions.*

The following table shows the subscriber base of six Direct to Home (DTH) TV service companies with respect to five popular channels aired by them.

Company → / Channels ↓	A	B	C	D	E	F
I	70 lakh	1.25 crore	95 lakh	1.57 crore	57 lakh	1.86 crore
II	85 lakh	1.38 crore	79 lakh	1.13 crore	89 lakh	67 lakh
III	1.20 crore	93 lakh	1.36 crore	87 lakh	1.49 crore	84 lakh
IV	1.75 crore	28 lakh	89 lakh	71 lakh	1.23 crore	2.35 crore
V	2.13 crore	72 lakh	1.89 crore	62 lakh	86 lakh	99 lakh

136. Which of the companies shows the maximum percentage difference in the viewership of its channels I and III with respect to channel I ?

(1) E (2) B

(3) A (4) F

137. Two-fifth of the viewers of channel V of A shifted to channel V of B and E; $\frac{2}{3}$ of these to B and the remaining to E. One-fourth of viewers of channel V of C have now started watching channel V of D and F; $\frac{3}{7}$ of it D and the rest F. In the new new distribution which of the companies have maximum viewers for channel V ?

(1) B (2) C

(3) F (4) A

138. The daily revenue generated through advertisement by channel III of companies A, C and F are in the same proportion as the ratio of their viewership. The total amount collected in a day by them is ₹ 340 crore. The revenue generated by channel II of D which is 8% more than that of channel III of C is :

(1) ₹ 11.75 crore (2) ₹ 10.88 crore

(3) ₹ 12 crore, 3 lakh (4) ₹ 146.88 crore

139. Informative programmes of channel II of B is watched by 27% of viewers of this channel rest watch entertainment programmes. If the viewers of informative programmes of channel III of C is less by 35% of viewers of entertainment programmes of channel II of B, then the number of viewers of entertainment programmes of channel III of C is more/less than that of channel II of B by :

(1) 3022100 more (2) 3325900 more

(3) 352900 less (4) 3022100 less

140. For paying the fees of the staff and other expenses in a day, channel IV of company A has to pay 13% of its revenue collected of that day. This amount is ₹ 25,00,000/- more than for channel V of C. The revenue generated per day by channel I of F is twice its viewership figure and is less by 10% than channel IV of A. The amount spent by channel V of C in a day is :

(1) ₹ 28,19,600/- (2) ₹ 53,19,600/-
(3) ₹ 48,36,000/- (4) ₹ 78,19,600/-

Directions (141-145) : *Study the following information to answer these questions.*

An organisation consists of 1500 employees. The ratio of males to females is 17 : 13. All the employees work at five different levels named G_1, G_2, G_3, G_4 and G_5. 28% of females are at level G_1. 18% of the males work at level G_1. One-fifth of the male work at level G_4. The ratio of females to males at level G_2 is 2 : 3. And 25% of the total numbers of employees are at level G_3. Females working at level G_3 are 60% of the males working at the same level. 18% of the females are at level G_4. The remaining females are at level G_5. 16% of the males work at level G_5 and the remaining males are working at level G_2.

141. What is the number of males working at level G_3 ?
(1) 136 (2) 228
(3) 253 (4) 163

142. Number of males working at level G_4 forms what percent of the females working at the same level ?
(1) 145.52 (2) 169.12
(3) 123.42 (4) 139.32

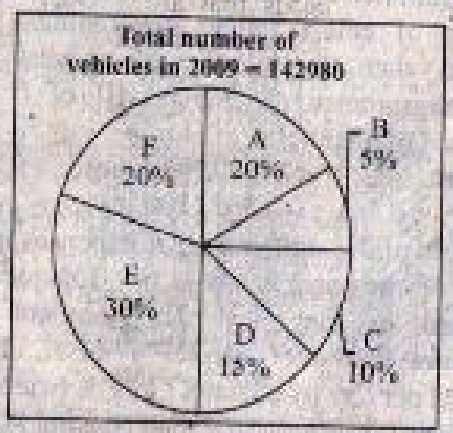
143. What is the number of females working at level G_5 ?
(1) 147 (2) 182
(3) 117 (4) 102

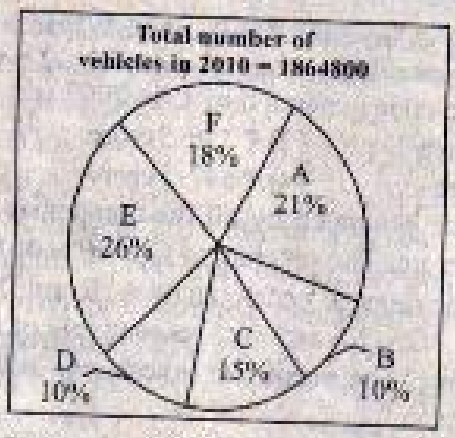
144. Number of male working at level G_1 forms approximately what percent of total number of the employees in the organisation ?
(1) 9 (2) 13
(3) 18 (4) 22

145. What is the total number of females working at level G_2 and G_4 together ?
(1) 281 (2) 118
(3) 219 (4) 264

Directions (146-150) : *Study the graphs to answer these questions.*

Pie-charts below shows the percentage of different types of vehicles A, B, C, D, E and F in a state in two consecutive years (2009 and 2010).





146. In the year 2009, the number of vehicles of type A and D together is what percent of the number of vehicles type F and A together in 2010 ?
(1) 68.83% (2) 52.13%
(3) 60.23% (4) 70%

147. From 2009 to 2010, in the case of which of the following types of vehicles, the change was maximum ?
(1) A (2) B
(3) C (4) E

148. What was the difference in the number of B type of vehicles during 2009 and 2010 ?
(1) 11321 (2) 11491
(3) 30205 (4) 15200

149. If the number of D type of vehicle in 2009 was 5000, what would have been its approximate percentage in the state ?
(1) 3.49% (2) 10%
(3) 5.20% (4) 2.56%

150. The number of A type of vehicle in 2010 was approximately what percent of the number of A type of vehicles in 2009 ?
(1) 137% (2) 120%
(3) 100% (4) 110%

Directions (151-155) : *Each of these questions consists of a problem followed by two statements numbered as I and II. Decide whether the data in the statements are sufficient to answer the question, mark answer as :*

(1) if statement I alone is sufficient, but statement II alone is not sufficient to answer the questions.
(2) if statement II alone is sufficient, but statement I alone is not sufficient to answer the question.
(3) if both statements taken together are sufficient to answer the question, but neither statement alone is sufficient.
(4) if statements I and II together are not sufficient, and additional data is needed to answer the question.

151. A citrus fruit grower receives ₹ 980/- for each crate of lemon shipped and ₹ 1,500/- for each crate of oranges shipped. How many crates of oranges did the grower ship last week ?

I. Last week the number of crates of lemon that the grower shipped was 20 more than twice the number of crates of orange shipped.

II. Last week the grower received a total of ₹ 3,87,000/- from the crates of lemon and oranges slipped.

152. If a total of 84 students are enrolled in two sections of a calculus course, how many of the 84 students are female ?

I. $\frac{2}{3}$ of the students in Section 1 are female.

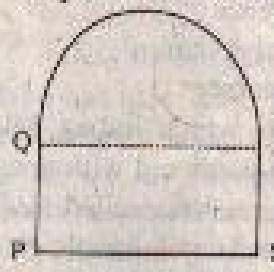
II. $\frac{1}{2}$ of the students in Section 2 are female.

153. Company R's annual profit has increased by a constant amount each calendar year since 2005. What was Company R's annual profit in 2011 ?

I. In 2005 Company R's annual profit was ₹ 2,12,00,000/-; in 2009 Company R's annual profit was ₹ 2,42,00,000/-.

II. Company R's annual profit has increased by ₹ 7,50,000/- each year since 2005.

154. The figure below shows the shape of a flower bed. If arc QR is a semicircle and PQRS is a rectangle with $QR > RS$, what is the perimeter of the flower bed ?



I. The perimeter of rectangle PQRS is 28 feet.

II. Each diagonal of rectangle PQRS is 10 feet long.

155. Committee X and Committee Y, which have no common members, will combine to form Committee Z. Does Committee X have more members than Committee Y ?

I. The average (arithmetic mean) age of the members of Committee X is 25.7 years and the average age of the members of Committee Y is 29.3 years.

II. The average (arithmetic mean) age of the members of Committee Z will be 26.6 years.

Directions (156-160) : *In each of these questions two quantities A and B are given. Compare the two quantities and mark answer as :*

(1) if quantity A is greater than quantity B.

(2) if quantity B is greater than quantity A.

(3) if quantities A and B equal.

(4) if comparison cannot be made.

156. The measures of the angles in triangle P are in the ratio of 2 : 4 : 6.

The measures of the angles in triangle Q are in the ratio of 1 : 2 : 6.

A : The measurements of the largest angle in triangle P.

B : The measurements of the largest angle in triangle Q.

157. Two circles with the same radius are blocked inside a rectangle.

A : The area of the shaded region.

B : The area of one and a half circles.

158. William bought X yellow coloured pencils and Y red ones.

David bought 15 pendcils fewer than two-third of the total number of pencils that William bought.

A : The number of pencils that David bought.

B : $\frac{(2X - 45 + 2Y)}{3}$

159. The concentration of alcohol in Tequila is half of the concentration in Vodka.

A cocktail consists of Tequila, Vodka and water only.

A : The amount at alcohol in a litre of cocktail, which consists of 50% Tequila and 30% Vodka.

B : The amount of alcohol in a litre of cocktail, which consists of 30% Tequila and 50% Vodka.

160. A box of card contains 2 blue cards and 2 red ones.

A : The minimum number of cards that are needed to be taken out of the box in order to get two cards with the same colour.

B : The minimum number of cards that are needed to be taken out of the box in order to get two cards with different colours.

PART - IV : INDIAN AN GLOBAL ENVIRONMENT

161. Who has won the men's singles title of French Open Tennis Grand Slam 2013 ?

(1) David Ferrer
(2) Rafael Nadal
(3) Roger Federer
(4) Novak Djokovic

162. Bharat Sanchar Nigam Ltd. (BSNL) has stopped its 163 years old ...services from July 15, 2013.

(1) Trunk Call
(2) Money Order
(3) Telegram
(4) None of these

163. Who has been reappointed as Executive Chairman of India's IT Company Infosys 2013 ?

(1) Narayana Murthy
(2) Nandan Nilekani
(3) K.V. Kamath
(4) None of these

164. Who among the following Indian Badminton players has won the Thailand Open Grand Prix Gold in 2013 ?
(1) P.V. Sindhu
(2) P. Kashyap
(3) K. Srikanth
(4) Saina Nehwal

165. Who is the President of Iran ?
(1) Hassan Rowhani
(2) Ayatollah Ali Khamenei
(3) Mahmound Ahmadinejad
(4) None of these

166. Who has been appointed as the Chief Advisor to the board of low budget airlines AirAsia India in 2013 ?
(1) S. Ramadorai
(2) Ratan Tata
(3) Tony Fernandes
(4) None of these

167. Who has become the first cricketer from Jammu and Kashmir to break into the Indian senior cricket team ?
(1) Shami Ahmad
(2) Shahbaz Nadeem
(3) Shubham Khajuria
(4) Parveez Rasool

168. Which mobile company has unveiled the world's slimmest 6.18 mm thick smart phone, 'Ascend P6' ?
(1) BlackBerry (2) Nokia
(3) Samsung (4) Huawei

169. Which Indian airline has bagged the best low cost airline in Central Asia and India at the SKYTRAX World Airline Awards at the Paris Air Show 2013 ?
(1) Jet Airways
(2) IndiGo
(3) GoAir
(4) SpiceJet

170. Which Indian pharmaceutical company has been imposed with ₹ 80 crore fine by European Commission in June 2013 for delaying market entry of cheaper generic versions of Danish company Lundbeck's branded Citalopram ?
(1) Ranbaxy Lab
(2) Dr. Reddy's Lab
(3) Dabur
(4) Aurobindo Pharma

171. Who is the first Indian appointed as the Deputy President Pacific Group of the Atlanta based beverage company Coca Cola ?
(1) Manu Anand
(2) Venkatesh Kini
(3) Atul Singh
(4) None of these

172. The famous 'Lukla Airport' at an altitude of about 2843 metres also called 'Tenzing-Hillary Airport' is situated in which country ?
(1) India
(2) New Zealand
(3) Bhutan
(4) Nepal

173. The Reserve Bank of India imposed a fine of ₹ 10.5 crore in June 2013 on which of the following bank(s) for not adhering to the KYC norms ?
A. Axis Bank
B. HDFC Bank
C. ICICI Bank
D. Yes Bank
(1) A and B
(2) B, C and D
(3) A, B and C
(4) A, C and D

174. Oil and Natural Gas Corporation Ltd. (ONGC) along with..... jointly signed an agreement to require the 10% stake of Videocon Industries. In a giant Mozambique gas filled for $ 2.5 billion.
(1) LNG Petronet
(2) Oil India Ltd.
(3) Indian Oil
(4) Bharat Petroleum

175. Who has become the 20th Lt. Governor of Delhi ?
(1) Tajender Khanna
(2) Najeeb Jung
(3) A.K. Singh
(4) Birender

176. Suresh Kalmadi has lost the 13 year reign as President of the .....on July 2013.
(1) Indian Athletics Association
(2) India Olympic Association
(3) Asian Olympic Committee
(4) Asian Athletic Association

177. Which Indian Automobile Co. has purchased 49.2% stake in the US based motorcycle company Erik Buell Racing (EBR) for $ 25 million in June-July 2013.
(1) Hero motor corporation
(2) Bajaj Auto
(3) TVS
(4) Mahindra

178. India has successfully launched its first dedicated navigation satellite.....using PSLV in July 2013.
(1) IRNSS-AI
(2) IRNSS-IA
(3) IRNSS-IB
(4) IRNSS-2A

179. Which famous Indian suiting and fabrics conglomerate has opened its first shop in Karachi, Pakistan in 2013.
(1) DCM
(2) VIMAL
(3) RAYMONDS
(4) DIGJAM

180. In which of the following sector, Indian government has raised the Foreign Direct Investment Cap to 100% in July 2013 ?
(1) Telecom
(2) Defence
(3) Civil Aviation
(4) Insurance

181. Recently which Indian Telecom Co. has partnered with google to launch a service called free zone to access Gmail, google etc.?
(1) IDEA
(2) BSNL
(3) AIRTEL
(4) RELIANCE

182. Who has been named as Australian Prime Minister in 2013.
(1) Jullia Gillard
(2) Kevin Rudd
(3) Wayne Swan
(4) None of these

183. Which country has won the FIFA Confederations Cup Football Championship 2013 ?
(1) Uruguay
(2) Italy
(3) Brazil
(4) Spain

184. Which of the following Hill forts of Rajasthan have been added in the UN World Heritage list in 2013 ?
A. Amber
B. Chittorgarh
C. Gangron
D. Jaisalmer
(1) A and B
(2) A, B and C
(3) B, C and D
(4) All these

185. South Korean Steel Co. POSCO calls off its ₹ 32 thousand crore integrated steel power plant project in which of the following states ?
(1) West Bengal
(2) Bihar
(3) Karnataka
(4) Gujrat

186. Malala Yousafzai, the Pakistani teenager, who addressed the Youth Assembly at UN in July 2013 on her birthday appeal for :
(1) Free education for all children
(2) Safety of women laborers
(3) Health facilities for all children
(4) Safety of Girl child

187. Who has played the leading role in the movie '*Bhag Milkha Bhag*' based on the life of legendary sports man Milkha Singh ?
(1) Amir khan
(2) Frahan Akhtar
(3) Ranbir Kapoor
(4) Salman Khan

188. "Tears you apart", a nation wide National……Control Campaign is launched by ministry of Health and family welfare, government of India.
(1) Aids
(2) Malnutrition
(3) Population
(4) Tobacco

189. Which political party has won the majority in 2nd National election in Bhutan ?
(1) Druk Phuensum Tshogpa
(2) Peoples Democratic Party
(3) Druk NX mrub Tshogpa
(4) Druk Chriwang Tshogpa

190. NDMA stands for :
(1) National Dairy Management Association
(2) National Disaster Management Authority
(3) National Defence Marine Academy
(4) National Dam Management Authority

191. Who has been appointed as the new foreign Secretary of India from Ist August, 2013 ?
(1) Sujata Singh
(2) S. Jai Shankar
(3) Ranjan Mathur
(4) None of these

192. Where was the 20th Asian Athelitics Championship held ?
(1) Delhi
(2) Bangalore
(3) Hyderabad
(4) Pune

193. Automobile Co. General motors (GM) has teamed up with ……to develop a hydrogen fuel cell or vehicle.
(1) Honda
(2) Suzuki
(3) Toyota
(4) Audi

194. Who wrote the Book "Long walk to freedom"?
(1) Aung Sun Sau Kyi
(2) Pervez Musharaf
(3) Nelson Mandela
(4) Bill Clinton

195. Who has named for the Tagore Award for cultural harmony 2013 ?
(1) Pt. Ravi Shakar
(2) Zubin Mehta
(3) NC Staya Narayan
(4) None of these

196. KundanKulam Nuclear Power Plant is situated in Tamil Nadu is a …… power generating unit in India.
(1) 800 MW
(2) 1200 MW
(3) 1000 MW
(4) 1500 MW

197. Tech Mahindra has become the largest Indian I.T. Service Provider Co. after the merger of Mahindra Satyam into Tech-Mahindra in June 2013.
(1) Forth
(2) Third
(3) Fifth
(4) Second

198. Which is the recently launched most social networking site by Google Inc. to compete with other such sites ?
(1) Google
(2) Gogoyoko
(3) Google Earth
(4) Goodwizz

199. National Rural Employment Guarantee Scheme (NREGS) was launched in :
(1) 2005 (2) 2008
(3) 2006 (4) 2007

200. As per International Energy Agency (IEA) report released in June 2011, greenhouse gas emissions are :
(1) Marginally decreased
(2) Considerably increased
(3) going up
(4) not decreasing