Management Aptitude Test
May 2006

Directions (Q. 1-5): Study the information given below to answer these questions.

(i) Six plays A, B, C, D, E and F are to be organised from Monday to Saturday, ie from 5th to 10th — one play each day.

(ii) There are two plays between C and D and one play between A and C.

(iii) There is one play between F and E and E is to be organised before F.

(iv) B is to be organised before A, not necessarily immediately.

(v) The organisation does not start with B.

1. The organisation would start from which play?
   1) A   2) F
   3) D   4) Cannot be determined

2. On which date the play E is to be organised?
   1) 5th 2) 7th
   3) 6th 4) Cannot be determined

3. The organisation would end with which of the following plays?
   1) A   2) D
   3) B   4) Cannot be determined

4. On which day the play B is organised?
   1) Tuesday   2) Friday
   3) Thursday   4) None of these

5. Which of the following is the correct sequence of organising plays?
   1) AECFBD   2) DFECBA
   3) BDEFCA   4) None of these

Directions (Q. 6-9): Read the following information carefully to answer these questions.

A family consists of six members P, Q, R, S, T and U. There are two married couples. Q is a doctor and is the father of T. U is the grandfather of R and is a contractor. S is the grandmother of T and is a housewife. There is one doctor, one contractor, one nurse, one housewife and two students in the family.

6. Who is the sister of T?
   1) R   2) T   3) U
   4) Information insufficient

7. What is the profession of P?
   1) Doctor   2) Doctor or Nurse
   3) Nurse   4) Housewife

8. Which of the following are the two married couples?
   1) US, QT   2) TS, RU
   3) US, QP   4) US, RP

9. Which of the following is definitely a group of male members?
   1) QU   2) QUP
   3) QUT   4) UT

10. If in a certain Language, TRIANGLE is coded SQHZMFKD, then which word would be coded as DWZLOKD?
    1) EXAMPLE   2) DISMISS
    3) FIGMENT   4) DISJOIN

11. Two buses start from the opposite points of a main raod, 150 km apart. The first bus runs for 25 km, takes a right turn and then runs for 15 km. It then truns left, runs for another 25 km and takes the direction back to reach the main road. In the meantime, due to a minor breakdown, the other bus has run only 35 km along the main road. What would be the distance between the two buses at this point?
    1) 65 km   2) 80 km
    3) 75 km   4) 85 km

12. A postman was returning to the post office which was in front of him to the north. When the post office was 100 metres away from him, he turned to the left and moved 50 metres to deliver the last letter at Shantivilla. He then moved in the same direction for 40 metres, turned to his right and moved 100 metres. How many metres away he was now from the post office?
    1) 0   2) 150   3) 90   4) 100

13. Which of the following cannot be a number of the series 1, 8, 27, 64, 125, ...?
    1) 256   2) 729   3) 512   4) 1000

14. Complete the series
    D-4, F-6, H-8, J-10, ?, ?
    1) K-12, M-13   2) L-12, N-14
    3) L-12, M-14   4) K-12, M-14

15. In a certain code language, 'nee muk pic' means 'grave and concern'; 'ill dic so' means 'every body else' and 'tur muk so' means 'body and soul'. Which of the following would mean 'every concern'?
    1) dic pic   2) pic nee
    3) ill nee   4) Cannot be determined

16. In a certain code, '975' means 'Throw away garbage' '528' means 'Give away smoking' and '213' means 'Smoking is harmful'. Which digit in that code means 'Give'?
    1) 5   2) 8   3) 2   4) 3

17. A woman walking with a boy meets another woman and on being asked about her relationship with the boy, she says, 'My maternal uncle and his maternal uncle's maternal uncle are brothers'. How is the boy related to the woman?
    1) Nephew   2) Son
    3) Brother-in-Law   4) Grandson

Directions (Q. 18-20): Read the information given below to answer these questions.

(i) There is a group of five girls.

(ii) Kamini is second in height but younger than Rupa.

(iii) Pooja is taller than Monika but younger in age.

(iv) Rupa and Monika are of the same age but Rupa is tallest among them.

(v) Neelam is taller than Pooja and elder to Rupa.

18. If they are arranged in the ascending order of height, than who will be in the third position?
1) Monika   2) Monika or Rupa
3) Rupa   4) None of these

19. If they are arranged in the descending order of their ages, then who will be in the fourth position?
1) Monika or Rupa   2) Monika
3) Kamini   4) None of these

20. To answer the question "who is the youngest person in the group", which of the given statements is superfluous?
1) Only (i)   2) Only (v)
3) Only (ii)   4) Either (i) or (iv)

21. Where are the headquarters of Asian Development Bank?
1) Manila   2) Singapore
3) London   4) None of these

22. India's Wage Policy is based on
1) Productivity   2) Standard of living
3) Cost of living   4) Minimum needs

23. With which game is 'Bully' associated?
1) Cricket   2) Football
3) Golf   4) Hockey

24. Black soil is best suited for
1) Tea   2) Rice
3) Cotton   4) Coffee

25. Which of the following yields the largest revenue in the Central Budget?
1) Excise Duty   2) Sales Tax
3) Income Tax   4) None of these

26. Which is the smallest State of India in terms of area?
1) Sikkim   2) Goa
3) Tripura   4) Nagaland

27. Which state of Inida has the highest population density?
1) UP   2) Kerala
3) West Bengal   4) Bihar

28. 'Aeroflot' Airlines belongs to which country?
1) Australia   2) France
3) Russia   4) Germany

29. Thomas Cup is associated with
1) Table Tennis   2) Golf
3) Football   4) Badminton

30. The tagline 'Empowering People' is linked with
1) HCL   2) Compaq
3) Acer   4) Wipro

31. Which of the following is the latest Indian Institute of Management (IIM)?
1) Lucknow   2) Bangalore

3) Kozhikode   4) Indore

32. Who is the second person with Indian roots to be awarded the Nobel Prize for Literature after Tagore?
1) Arundhati Roy   2) Vikram Seth
3) VS Naipaul   4) None of these

33. Which bank advertises itself as 'The World's local bank?
1) Citibank   2) HSBC
3) ICICI Bank   4) ABN–AMRO

34. 2008 Olympics will be held in
1) London 2) Beijing 3) Sydney 4) New York

35. Which of the following is not a product from Indian Oil?
1) Servo Lubricants   2) Xtra Premium Petrol
3) Xtra Mile Diesel   4) Hi-speed Diesel

36. According to the annual forbes magazine's billionaires rankings released recently, Indian Steel magnet, Lakshmi Narayan Mittal has been placed
1) Second 2) Fourth 3) Fifth   4) Third

37. IAEA stands for
1) Indian Atomic Energy Agency
2) Indian and Afro-Asian Energy Agency
3) International Atomic Energy Association
4) International Atomic Energy Agency

38. How many countries took part in the 18th Commonwealth Games held in Melbourne in 2006?
1) 61   2) 81   3) 71   4) 91

39. Global brand 'Marlboro' deals in
1) Beverages   2) Tobacco
3) Retail Food   4) Automobiles

40. Famous book 'The Argumentative Indian' has been written by
1) Anurag Mathur   2) Rajdeep Sardesai
3) Amartya Sen   4) Vir Sanghvi

Directions (Q. 41-45): Each of these questions has an inference drawn out of the passage given below. Mark your answer as
1) If the inference is 'definitely true'
2) If the 'data provided are inadequate'
3) If the inference is 'probably true'
4) If the inference is 'definitely false'

Ministry of Environment and forests has granted environmental clearance to the Karakatla open-cast expansion project of the Central Coal Fields Ltd. In Bihar that envisages exploitation of non-coking coal reserves, the present production level of 0.8 million tonnes is proposed to be expanded to 1.5 million tonnes per annum at an estimated cost of Rs 67.82 crore under the project. The total land area requirement for the proposed mining activities is about 651 hectares which includes about one-sixth of it as forest land.

41. the expansion plan would require about 100 hectares of forest land.

42. Karakatla open-cast mine is the only one of non-coking coal in the country.

43. There is no demand for non-coking coal.

44. The production cost of one tonne of non-coking

coal from Karakatla mine will be about Rs 450.

45. Environmental concern gets less priority over the need of the coal.

Directions (Q. 46-50): Each of these questions has a statement followed by three suggested Coures of Action numbered I, II and III. Assume everything in the statement to be true, and decide which of the given Course of Action logically follows for pursuing.

46. **Statement:** Drinking water suply to New Bombay has been suspended till further orders from Maharashtra Pollution Control Board following pollution of Patalganga river, caused by discharge of effluents from some chemical industries.

Courses of Action:

I. The industries responsible for discharging effluents into the river should be asked to close down immediately.

II. The river water should immediately be treated chemically before resuming supply.

III. The Pollution Control Board should check the nature of effluents being discharged into the river by industries at regular intervals.

1) All follow
2) Only II and III follow
3) Only I follows
4) Only III follows

47. **Statement:** The Department of Education has recommended that the primary level admission to Government and Government-aided schools should be done purely by random selection and not by admission tests. This is necessitated as the number of admission seekers are much more than the available seats.

Courses of Action:

I. The Government should instruct the private schools also to follow the same practice.

II. The Government should set up an independent body to regulate the primary level admissions.

III. The schools should be asked to select student only from those who stay in the neighbouring areas of the school.

1) None follows
2) Only II and III follow
3) Only I follows
4) Only III follows

48. **Statement:** The vehicular traffic has increased so much in the recent past that it takes at least two hours to travel between the city and the airport during peak hours.

Courses of Action:

I. Non-airport bound vehicles should not be allowed to ply on the road connecting the city and the airport.

II. The load of vehicular traffic should be diverted through various link roads during peak hours.

III. The departure and arrival of flights should be regulated so as to avoid congestion during peak

hours.

1) Only I follows
2) Only I and II follow
3) Only II follows
4) All follow

49. **Statement:** Due to cancellation of a huge export order for not adhering to the time frame, the company is likely to get into incurring losses in the current financial year.

Courses of Action:

I. The officer-in-charge of the production should be immediately suspended.

II. The goods manufactured for the export order should be sold to other party.

III. The company should change its machinery to maintain the time frame.

1) None follows
2) Only I and II follow
3) Only II follows
4) All follow

50. **Statement:** A devastating earthquake has ravaged the city killing hundreds of people and rendering many more homeless.

Courses of Action:

I. The entry of outsiders into the city should be stopped

II. The civic administration should immediately make alternate temporary housing arrangement for the victims.

III. The affected people should immediately be shifted to a safer place.

1) Only I follows
2) Only III follows
3) Only II and III follow
4) Either II or III follows

Directions (Q. 51-55): Each of these questions has a statement followed by three assumptions numbered I, II and III. Consider the statement and the assumptions to decide which of the assumptions is implicit in the statement.

51. **Statement:** The residents of the locality wrote a letter to the Corporation requesting to restore normalcy in the supply of drinking water immediately as the supply at present is just not adequate.

Assumptions:

I. The Corporation may not take any action on the letter.

II. The municipality has enough water to meet the demand.

III. The water supply to the area was adequate in the past.

1) Only I and III are implicit
2) Only II and III are implicit
3) Only II is implicit
4) Only III is implicit

52. **Statement:** We must be prepared to face any eventuality and all the assignments must be completed as per their schedule — Director tells the

Faculty members.

Assumptions:

I. There is possibility of a serious eventuality.
II. Dates are fixed for all the assignments.
III. Faculty members are supposed to complete all the assignments.

1) Only I is implicit
2) Only III is implicit
3) None is implicit
4) All are implicit

53. **Statement:** The telephone company informed the subscribers through a notification that those who do not pay their bills by the due date will be charged penalty for every defaulting day.

Assumptions:

I. Majority of the people may pay their bills by the due date to avoid penalty.
II. The money collected as penalty may set off the losses due to delayed payment.
III. People generally pay heed to such notices.

1) All are implicit
2) Only I and III are implicit
3) Only II and III are implicit
4) None of these

54. **Statement:** In view of the recent spurt in sugar prices in the open market, the government has asked the dealers to release a vast quantity of imported sugar in the open market.

Assumptions:

I. The dealers will follow the government directive.
II. The sugar prices will come down.
III. The price of indigenous sugar will remain unchanged.

1) Only I and II are implicit
2) Only I and III are implicit
3) Only II and III are implicit
4) None is implicit

55. **Statement:** In the recently held All India Commerce Conference, the session on 'Management of Service Sector in India' surprisingly attracted large number of participants and also received a very good media coverage in the leading newspapers.

Assumptions:

I. People were not expecting such an encouraging response for service sector.
II. Service sector is not managed properly in India.
III. Media is always very positive towards service sector.

1) Only I is implicit
2) Only I and III are implicit
3) Only II and III are implicit
4) All are implicit

Directions (Q. 56-60): Each of these questions has a set of Assertion (A) and Reason (R). Mark the answer as

1) If both A and R are true and R is the correct

explanation of A.
2) A is true but R is false.
3) If both A and R are true but R is not the correct explanation of A.
4) A is false but R is true.

56. **Assertion (A):** India has a tropical monsoon type climate.
Reason (R): India is located exactly between the tropical latitudes.

57. **Assertion (A):** For the production of aluminium, cheap electricity is essential.
Reason (R): Extraction of aluminium from its ore requires abundant supply of electricity.

58. **Assertion (A):** Winds are deflected to their right in Northern Hemisphere and to the left in the Southern Hemisphere.
Reason (R): Rotation of earth causes the changes in wind direction.

59. **Assertion (A):** Noise pollution is an unwanted accumulation of noise in the atmosphere.
Reason (R): It interferes with communication.

60. **Assertion (A):** Forest cutting is undesirable from the point of view of soil erosion.
Reason (R): Cutting of forests reduces the percolation of rain water.

61. During the year 2004-2005, which commodity out of the following earned the maximum amount in terms of value of exports in India?
1) Chemicals   2) Engineering Goods
3) Textiles   4) None of these

62. Of the total value of India's foreign trade in 2004-05, the value of imports was nearly
1) 45%   2) 65%   3) 55%   4) 35%

63. Agriculture contributes approximately _____ of total GDP.
1) One-quarter   2) One-half
3) One-third   4) Two-thirds

64. Balance of trade is known to be favourable when
1) Value of exported goods exceeds the value of imported goods
2) Value of imported goods matches with the value of exported goods
3) Value of imported goods exceeds the value of exported goods
4) None of the above

65. Sensex (Sensitive Index) points towards state of shares of top_____ blue chip companies.
1) 50   2) 20   3) 100   4) 30

66. Who finally approves the draft Five-Year-Plans?
1) Prime Minister
2) Planning Commission
3) President
4) National Development Council

67. Which is India's largest Private Sector Bank?
1) HDFC   2) ICICI   3) UTI   4) IDBI

68. Telecom company Nokia belongs to which country?
1) USA   2) Sweden
3) Denmark   4) Finland

69. The slogan 'What you dream' is associated with which of the following companies?
    1) Honda   2) Philips
    3) Sony   4) Suzuki

70. In which city are the headquarters of International Monetary Fund (IMF) located?
    1) New York   2) Berlin
    3) Washington   4) Geneva

71. Which company is the world's biggest automaker?
    1) Toyota   2) General Motors
    3) Ford   4) Suzuki

72. Which plant has caught the fancy of many automobile manufacturers and oil companies to be developed as a source of 'Bio-diesel'?
    1) Neem   2) Jatropha
    3) Palm   4) Eucalyptus

73. 'Data one' broadband services have been launched by
    1) MTNL   2) Tata Walky
    3) BSNL   4) None of these

74. Inflation leads to
    1) No change in price level
    2) Abnormal increase in price level
    3) Abnormal decrease in price level
    4) None of the above

75. Percentage export growth rate of India during 2005 was
    1) 10%   2) 26%   3) 8%   4) 21%

76. Indian Railways tied up with which of the following to launch a co-branded credit card and traveller loyalty card to tap the huge railway passengers market?
    1) BOB Card   2) Citibank Card
    3) SBI Card   4) None of these

77. Indian Railways has been organised into how many zones?
    1)14   2)16   3) 15   4) 17

78. Tenth Five-Year-Plan targets a growth rate of_____ of GDP per annum.
    1) 8%   2) 9%
    3) 7%   4) None of these

79. When will the next population census be held in India?
    1) 2010   2) 2011   3) 2015   4) 2008

80. Of which US university is the Kellogg School of Management a part?
    1) New York   2) Columbia
    3) North-Western   4) None of these

Directions (Q. 81-84): In these questions, fill in the blanks with the most appropriate alternatives.

81. It is _____ that those who expect _____ from others are seldom merciful themselves.
    1) Strange, sincerity
    2) Unpardonable, kindness
    3) Stupid, sympathy
    4) Paradoxical, clemency

82. Some people have the _____ for learning foreign languages but they have no _____ to speak any.
    1) Aptitude; interest
    2) Stamina; fondness
    3) Capacity; ability
    4) Compulsion; inclination

83. In Buddhism, it is impossible to keep ethics and psychology _____ from one another, because they_____ at so many points.
    1) Aloof; merge
    2) Disjoin; converge
    3) Alien; meet
    4) Separate; overlap

84. Cholesterol has long been identified as a silent killer because the patient has no _____ of the danger freely_____his system.
    1) Information; invading
    2) Thought; attacking
    3) Idea; infecting
    4) Inkling; traversing

Directions (Q. 85-88): In each of these questions, one sentence has been split into four parts. There is an error in one part. Identify the part having the error.

85. 1) A skilful advertiser may be able to create
    2) Not because his product is superior to,
    3) Practically a monopoly for himself
    4) But because he has succeeded in inducing people to believe that it is.

86. 1) Whatever may be the origin of speech
    2) To feel the need to speak
    3) We can be certain that man did not begin
    4) Until he began to live in communities.

87. 1) I regret to bring to your kind notice
    2) Of your school, has been found to be much distressed
    3) That my son Sachin Dubey of Vth Standard
    4) And out of sorts for the last few days.

88. 1) Our teeming masses, nevertheless illiterate they may be,
    2) And they are fully capable
    3) Have a very high sense of consciousness
    4) Of exercising their franchise.

Directions (Q. 89-92): In each of these questions, four words are given marked as A, B, C and D. Two of these words are mo*t nearly the same or opposite in meaning. Identify those two words.

89. (A) Enthralling   (B) Respecting
    (C) Projecting   (D) Alluring
    1) A — B   2) C — D   3) B — C   4) A — D

90. (A) Swoop   (B) Perturb   (C) Plump   (D) Boil
    1) A — D   2) A — C   3) B — C   4) B — D

91. (A) Fallacy   (B) Adage   (C) Dictum   (D) Endorse
    1) B — D   2) B — C   3) C — D   4) A — D

92. (A) Elevate   (B) Frugal   (C) Exult   (D) Lament
    1) C — D   2) B — C   3) A — B   4) B — D

Directions (Q. 93-96): Each of these questions has a set of 3 or 4 sentences to logically convey an idea. The possible filler(s) in the middle is/are given separately as A and B. Mark the answer as

   1) If A and B are to be filled in that otder.
   2) If only A is to be filled.
   3) If B and A are to be filled in that order.
   4) If only B is to be filled.

93. As far as aircraft maintenance procedures are concerned, they are rigorous. (_____). Such cases may endup in disastrous results, though exceptionally.
   (A) All problems are immediately corrected on almost every occasion.
   (B) Only due to urgency or want of aircraft for substitution, certain ones are overlooked.

94. Auto-riding is a very fascinating hobby. (_____). It is obvious that they consider the hobby more important than anything else.
   (A) Low or even middle income group people cannot afford it.
   (B) I know many people who had missed many important cases or opportunities for participation in auto-riding.

95. There is no doubt that we must be fair and honest in all our dealings. (_____). What you really are is less important than what you are perceived by people around you.
   (A) It means that perception assumes greater importance than reality.
   (B) But even more important is how you are perceived by others.

96. The admiration for those who fight against corruption in high places has always been very spontaneous amongst the common people in India. (_____). They unhesitantly appreciate such acts but are afraid of openly doing so for fear of the higher ups.
   (A) They hold such people in high esteem who make sacrifices on principles and moral issues.
   (B) They make verbose speeches of admiration and appreciation of such acts.

Directions (Q. 97-100): Each of these questions has a sentence scrambled and marked A, B, C, D and E. Find the correct order as one of the four alternatives.

97. (A) in different regions of that federation
   (B) that was Yugoslavia
   (C) the fundamental cause has been the very large difference in the quality of life
   (D) although the dismemberment of the federation
   (E) is seen more as the result of an ethnic conflict
   1) D, B, E, C, A   2) B, C, E, D, A
   2) C, E, B, D, A   4) A, B, D, E, C

98. (A) but there is some merit in it
   (B) as distinct from consumption
   (C) the bifurcation of plan and non-plan funds
   (D) insofar as it focuses attention on development expenses
   (E) in the budget is artificial

   1) D, C, A, B, E   2) C, E, A, B, D
   3) C, D, B, E, A   4) D, E, A, C, B

99. (A) like the industrialised countries
   (B) as if they are to be suffered as relics of a backward past
   (C) we have specially drawn attention to the non-motorised transport modes
   (D) because they are completely overlooked in transport planning
   (E) till replaced by faster petroleum-fuelled transport
   1) D, E, A, C, B   2) C, B, A, D, E
   3) C, D, E, B, A   4) C, D, B, E, A

100. (A) he was highly sensitive and resentful
   (B) towards the country or to those
   (C) when there was even implied discourtesy
   (D) while he was extremely gentle and tolerant
   (E) he held in honour
   1) A, C, D, B, E   2) E, A, D, C, B
   3) D, A, C, B, E   4) D, C, B, E, A

101. A sum of Rs 25 was paid for a work which A can do in 32 days, B in 20 days, B and C in 12 days and D in 24 days. How much did C receive if all the four work together?
   1) Rs 14/3   2) Rs 16/3
   3) Rs 15/3   4) Rs 17/3

102. A can build up a wall in 8 days while B can break it in 3 days. A has worked for 4 days and then B joined to work with A for another 2 days only. In how many days will A alone build up the remaining part of the wall?

   1) $13\frac{1}{3}$ days   2) $6\frac{1}{3}$ days

   3) $7\frac{1}{3}$ days   4) 7 days

103. A cistern can be filled by two pipes filling separately in 12 and 16 min respectively. Both pipes are opened together for a certain time but being clogged, only 7/8 of the full quantity of water flows through the former and only 5/6 through the latter pipe. The obstructions, however, being suddenly removed, the cistern is filled in 3 min from that moment. How long was it before the full flow began?
   1) 2.5 min   2) 4.5 min   3) 3.5 min   4) 5.5 min

104. A man sold two steel chairs for Rs 500 each. On one, he gains 20% and on other, he loses 12%. How much does he gain or lose in the whole transaction?
   1) 1.5% gain   2) 2% gain
   3) 1.5% loss   4) 2% loss

105. A sum of money lent out at simple interest amounts to Rs 720 after 2 years and to Rs 1,020 after a further period of 5 years. The sum and the rate % are
   1) Rs 500, 5%   2) Rs 400, 15%
   3) Rs 600, 10%   4) Rs 700, 20%

106. A man takes 6 hours 30 min in going by a cycle

and coming back by scooter. He would have lost 2 hours 10 min by going on cycle both ways. How long would it take him to go by scooter both ways?

1) 2 hrs

2) $4\frac{1}{3}$ hrs

3) $3\frac{1}{3}$ hrs

4) $5\frac{1}{3}$ hrs

107. A train with 90 km/hr crosses a bridge in 36 seconds. Another train 100 metres shorter crosses the same bridge at 45 km/hr. What is the time taken by the second train to cross the bridge?

1) 61 seconds

2) 63 seconds

3) 62 seconds

4) 64 seconds

108. Two pipes A and B can fill a tank in 20 and 30 hours respectively. Both the pipes are opened to fill the tank but when the tank is 1/3rd full, a leak develops in the tank through which one-third water supplied by both the pipes goes out. The total time taken to fill the tank is

1) 12 hours

2) 16 hours

3) 14 hours

4) 18 hours

109. Ramesh travels 760 km to his home, partly by train and partly by car. He takes 8 hours, if he travels 160 km by train and the rest by car. He takes 12 minutes more, if he travels 240 km by train and the rest by car. What are the speeds of the train and the car?

1) Speed of car = 90 km/hr, Speed of train = 60 km/hr

2) Speed of car = 100 km/hr, Speed of train = 80 km/hr

3) Speed of car = 80 km/hr, Speed of train = 70 km/hr

4) Speed of car = 100 km/hr, Speed of train = 90 km/hr

110. Some students planned a picnic. The budget for food was Rs 500. But, 5 of them failed to go and thus the cost of food for each member increased by Rs 5. How many students attended the picnic?

1) 15

2) 25

3) 20

4) 30

111. In a flight of 6000 km, an aircraft was slowed down due to bad weather. The average speed for the trip was reduced by 400 kmph and the time of flight increased by 30 minutes. The original planned duration of the flight was

1) $1\frac{1}{2}$ hrs

2) $4\frac{1}{3}$ hrs

3) $3\frac{1}{3}$ hrs

4) $5\frac{1}{3}$ hrs

112. After being set up, a company manufactured 6000 scooters in the third year and 7000 scooters in the seventh year. Assuming that the production increases uniformly by a fixed number every year, what is the production in the tenth year?

1) 7850

2) 7650

3) 7750

4) 7950

113. Soma purchases National Savings Certificates every year whose value exceeds the previous year's purchase by Rs 400. After 8 years, she finds that she has purchased certificates whose total face value is Rs 48,000. What is the face value of the certificates purchased by her in the first year?

1) Rs 4,300

2) Rs 4,500

3) Rs 4,400

4) Rs 4,600

114. A computer is available for Rs 39,000 cash or Rs 17,000 as cash down payment followed by five monthly instalments of Rs 4,800 each. What is the rate of interest under the instalment plan?

1) 35.71% pa

2) 37.71% pa

3) 36.71% pa

4) 38.71% pa

115. Under the Rural Housing Scheme, the Delhi Development Authority (DDA) allotted a house to Kamal Raj for Rs 1,26,100. This payment is to be made in three equal annual instalments. If the money is reckoned at 5% per annum compound interest, then how much is to be paid by Kamal Raj in each instalment?

1) Rs 45, 205

2) Rs 47,405

3) Rs 46,305

4) Rs 48,505

116. A pole 5 metres high is fixed on the top of a tower. The angle of elevation of the top of the pole observed from a point A on the ground is 60° and the angle of depression of the point A from the top of the tower is 45°. The height of the tower is

1) 5.83 m

2) 7.83 m

3) 6.83 m

4) 4.83 m

117. A tent is in the form of a right circular cylinder surmounted by a cone. The diameter of the cylinder is 24 m. The height of the cylindrical portion is 11 m while the vertex of the cone is 16 m above the ground. The area of the canvas required for the tent is

1) 1300 m²

2) 1320 m²

3) 1310 m²

4) 1330 m²

118. The average score of boys in an examination in a school is 71 and that of the girls is 73. The average score of the school is 71.8. The ratio of the number of boys to that of the girls that appeared in the examination is

1) 1 : 2

2) 3 : 2

3) 2 : 2

4) 4 : 2

119. The mean monthly salary paid to 75 workers in a factory is Rs 5,680. The mean salary of 25 of them is Rs 5,400 and that of 30 others is Rs 5,700. The mean salary of the remaining workers is

1) Rs 5,000

2) Rs 7,000

3) Rs 6,000

4) Rs 8,000

120. It is known that a box of 200 electric bulbs contains 16 defective bulbs. One bulb is taken out at random from the box. What is the probability that the bulb drawn is (i) defective (ii) non-defective?

1) (i) 2/25

(ii) 23/25

2) (i) 4/25

(ii) 21/25

3) (i) 3/25

(ii) 22/25

4) (i) 1/25

(ii) 20/25

Directions (Q. 121-124): Study the following table to answer these questions.