TANCET 2020

Practice Set

Join Online Course

1. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3,200. With the help of C, they completed the work in 3 days. How much is to be paid to C ?
(a) Rs. 375   (b) Rs. 400
(c) Rs. 600   (d) Rs. 800

2. A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%
(a) 3   (b) 4
(c) 5   (d) 6

3. In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together ?
(a) 120   (b) 720
(c) 4320   (d) 2160

4. 3 pumps, working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work to empty the tank in 1 day ?
(a) 9   (b) 10
(c) 11   (d) 12

5. Sakshi invests a part of Rs. 12,000 stock at Rs. 120 and the remainder in 15% stock at Rs. 125. If his total dividend per annum is Rs. 1,360, how much does he invest in 12% stock at Rs. 120 ?
(a) Rs. 4,000   (b) Rs. 4,500
(c) Rs. 5,500   (d) Rs. 6,000

6. The true discount on a bill of Rs. 540 is Rs. 90. The banker's discount is :
(a) Rs. 60   (b) Rs. 108
(c) Rs. 110   (d) Rs. 112

7. Simran started a software business by investing Rs. 50,000. After six months, Nanda joined her with a capital of Rs. 80,000. After 3 years, they earned a profit of Rs. 24,500. What was simran's share in the profit ?
(a) Rs.8425   (b) Rs. 10,250
(c) Rs. 12,500   (d) Rs. 10,500

8. A tap can fill a tank in 6 hours. After half the tank is filled, three more similar taps are opened. What is the total time taken to fill the tank completely?
(a) 3 hrs. 15 min.   (b) 3 hrs. 45 min.
(c) 4 hrs.   (d) 4 hrs. 15 min.

9. A bag contains 6 black and 8 white balls. One ball is drawn at random. What is the probability that the ball is drawn is white ?
(a) 3/4   (b) 4/7
(c) 1/8   (d) 3/7

10. The angle of elevation of a ladder leaning against a wall is 60_0 and the foot of the ladder is 4.6 m away from the wall. The length of the ladder is :
(a) 2.3 m   (b) 4.6 m
(c) 7.8 m   (d) 9.2 m

11. How many bricks, each measuring 25 cm × 11.25 cm × 6 cm, will be needed to build a wall of 8 m × 6m × 22.5 cm ?
(a) 5600   (b) 6000
(c) 6400   (d) 7200

12. The price of 10 chairs is equal to that of 4 tables. The price of 15 chairs and 2 tables together is Rs. 4,000. The total price of 12 chairs and 3 tables is
(a) Rs. 3,500   (b) Rs. 3,750
(c) Rs. 3,840   (d) Rs. 3,900

13. The interest on Rs. 750 for 2 years in the same as the true discount on Rs. 960 due 2 years hence. If the rate of interest is the same in both, it is
(a) 12%   (b) 14%
(c) 15%   (d) 18%

14. A train running at the speed of 60 km/h crosses a pole in 9 seconds. What is the length of the train ?
(a) 120 m   (b) 180 m
(c) 324 m   (d) 150 m

15. The length of the bridge, which a train 130 metres long and travelling at 45 km/h can cross in 30 seconds is :
(a) 200 m (b) 225 m
(c) 245 m (d) 250 m

16. What is the speed of the train whose length is 210 metres ?
I. The train crosses another train of 300 meters length running in opposite direction in 10 seconds.
II. The train crosses another train running in the same direction at the speed of 60 km/h in 30 seconds.
(a) I alone is sufficient while II alone is not sufficient to answer
(b) II alone is sufficient while I alone is not sufficient to answer.
(c) Either I or II alone is sufficient to answer
(d) Both I and II are necessary to answer

17. It was Sunday on Jan. 1, 2006. What was the day of the week Jan. 1, 2010 ?
(a) Sunday (b) Saturday
(c) Friday (d) Wednesday

18. The ratio between the length and the breadth of a rectangular park is 3.2. If a man cycling along the boundary of the park at the speed of 12 km/h completes one round in 8 minutes. Then the area of the park (in sq.m) is :
(a) 15360 (b) 153600
(c) 30720 (d) 307200

19. What is the unit digit in $\{(6374)^{1793} \times (625)^{317} \times (341)^{491}\}$?
(a) 0 (b) 2
(c) 3 (d) 5

20. Evaluate :
$((2.39)^2 - (1.61)^2/(2.39 - 1.61))$
(a) 2 (b) 4
(c) 6 (d) 8

21. Find the odd man out.
8, 27, 64, 100, 125, 216, 343
(a) 27 (b) 100
(c) 125 (d) 343

22. A vessel is filled with liquid, 3 parts of which are water and 5 parts syrup. How much of the mixture must be drawn off and replaced with water so that the mixture may be half water and half syrup ?
(a) 1/3 (b) ¼
(c) 1/5 (d) 1/7

23. Given that $10^{0.48} = x, 10^{0.70}$ and $x^z = y^2$ then the value of z is close to

(a) 1.45 (b) 1.88
(c) 2.9 (d) 3.7

24. In a 100 m race, A can given B 10 m and C 28 m. In the same race B can give C
(a) 18 m (b) 20 m
(c) 27 m (d) 9 m

25. The sum of ages of 5 children born at the intervals of 3 years each is 50 years . What is the age of the youngest child ?
(a) 4 years (b) 8 years
(c) 10 years (d) none of the above

26. The number that should come next in the series : 2, 1, (1/2), (1/4), is :
(a) 1/3 (b) 1/8
(c) 2/8 (d) 1/6

27. What number should come next in the series ? 31, 29, 24, 22, 17
(a) 15 (b) 14
(c) 13 (d) 12

28. From the series : F2,..........,D8, C16, B32,......... Pick out the number that should fill the blank.
(a) A16 (b) G4
(c) E4 (d) E3

29. Fill the series : XXIV, XX, ..., XII, VIII
(a) XXII (b) XIII
(c) XVI (d) IV

30. Harvest
(a) Autumn (b) Stockpile
(c) Tractor (d) Crop

31. Culture
(a) Civility (b) Education
(c) Agriculture (d) Customs

32. Cage
(a) Enclosure (b) Prisoner
(c) Animal (d) Zoo

33. Fact 1 : All dogs like to run.
Fact 2 : Some dogs like to swim.
Fact 3 : Some dogs look like their masters.
If the following statements must also be a fact ?
I. All dogs who like to swim look like their masters.
II. Dogs who like to swim also like to run.
III. Dogs who like to run do not look like their masters.
(a) I only (b) II only
(c) II and III only
(d) None of the statements is a known fact

34. Four defensive football players are chasing the opposing wide receiver who has the ball. Calvin is directly behind the ball carrier. Jenkins and Burton are side by side behind Calvin. Zeller is behind Jenkins and Burton. Calvin tries for the tackle but misses and falls. Burton trips. Which defensive player tackles the receiver ?
    (a) Burton   (b) Zeller
    (c) Jenkins   (d) Calvin

35. A four-person crew from Classic Colours is painting Mr. Field's house. Michael is painting the front of the house. Ross is in the alley behind the house painting the back. Jed is painting the window frames on the north side, Shawn is on the south. If Michael switches places with Jed, and Jed then switches places with Shawn, where is Shawn ?
    (a) in the alley behind the house
    (b) on the north side of the house
    (c) in front of the house
    (d) on the south side of the house

36. What is Reena's rank in the class ?
    I. There are 26 students in the class
    II. There are 9 students who have scored less than Reena.
    (a) Statement I alone is sufficient to answer
    (b) Statement II alone is sufficient to answer
    (c) Both the statements together are not sufficient to answer
    (d) Both the statements together are needed

37. Statements : No women teacher can play. Some women teachers are athletes Conclusions :
    I. Male athletes can play.
    II. Some athletes can play.
    (a) Only conclusion I follows
    (b) Only conclusion II follows
    (c) Either I or II follows
    (d) Neither I nor II follows

38. Statements : All aeroplanes are trains. Some trains are chairs. Conclusion :
    I. Some aeroplanes are chairs.
    II. Some chairs are aeroplanes.
    III. Some chairs are trains.
    IV. Some trains are aeroplanes.
    (a) None follows
    (b) Only I and II follows
    (c) Only II and III follows
    (d) Only III and IV follows

39. Statements :
    I. The Prices of petrol and diesel in the domestic market have remained unchanged for the past few months.
    II. The crude oil prices in the international market have gone up substantially in the last few months
    (a) Statement I is the cause and statement II is its effect

(b) Statement II is the cause and statement I is its effect
(c) Both the statements I and II are independent causes
(d) Both the statements I and II are effects of independent cause

40. Statements :
    I. The Reserve Bank of India has recently put restrictions on few small banks in the country.
    II. The small banks in the private and co-operative sector in India are not in a position to withstand the competitions of the bigger in the public sector.
    (a) Statement I is the cause and statement II is its effect
    (b) Statement II is the cause and statement I is its effect
    (c) Both the statements I and II are independent causes
    (d) Both the statements I and II are effects of independent causes

41. Here are some words translated from an artificial language.
    gorblflur mean fan belt, *pixngorbl* means ceiling fan, *arthtusl* means tile roof. Which word could mean "ceiling tile"?
    (a) gorbltusl   (b) flurgorbl
   (c) arthflur   (d) pixnarth

42. Here are some words translated from an artificial language.
    Malgauper means peach cobbler, *malgaport* means peach juice, *moggagrop* means apply jelly. Which word could mean "apple juice"?
    (a) moggaport   (b) malgaauper
    (c) gropport   (d) moggagrop

43. In the figure given below
    The rectangle represents bachelors
    The square represents Delhi metropolis
    The circle represents English language
    The triangle represents tourists
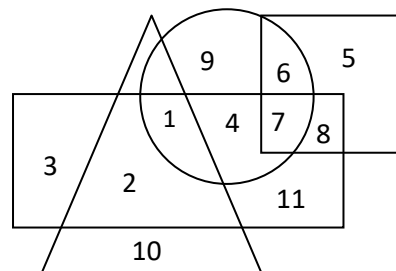
    The portion representing bachelor tourists, who know the English language is:
    (a) 2   (b) 1   (c) 7   (d) 4

44. Read the below passage carefully and answer the question :
    The government of an island nation is in the process of deciding how to spend its limited income. It has $ 7 million left in its budget and eight programs to choose among. There is no provision in the constitution to have a surplus, and each program coordinator has

Add:-Lakhanpur Near(Petrol Pump),Gurdev
E- Mail : aspirestudykanpur@gmail.com
KANPUR
8400072444
Page 3
ASPIRE

requested the minimum amount they need, in other words, no program may be partially funded. The programs and their funding requests are :

⇒ Hurricane preparedness : $ 2.5 million
⇒ Harbour improvements : $ 1 million
⇒ School music program : $ 0.5 million
⇒ Senate office building remodelling : $1.5 million
⇒ Agricultural subsidy program : $ 2 million
⇒ National radio : $ 0.5 million
⇒ Small business loan program : $ 3 million
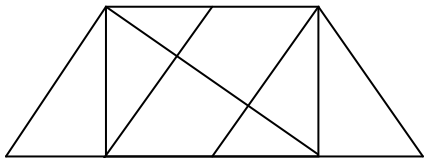⇒ International airport : $ 4 million

Senators from urban areas are very concerned about assuring that there will be funding for a new international airport. Senators from rural area refuse to fund anything until money for agricultural subsidies is appropriated. If the legislature funds these two programs, on which of the following could they spend the rest of the money
(a) The School music program and national radio
(b) Hurricane preparedness
(c) Harbour improvements and the school music Program
(d) Small business loan program

45. Which word does NOT belong with the others ?
(a) inch   (b) ounce
(c) centimeter   (d) yard

46. Which word does NOT being with the others ?
(a) Tulip   (b) Rose
(c) Bud   (d) Daisy

47. Look carefully at the sequence of symbols to find the pattern. Select the correct pattern.

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

48. SCD, TEF, UGH,.........,WKL
(a) CMN   (b) UJI
(c) VIJ   (d) IJT

49. Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.
MONK : DEVITION
(a) maniac : pacifism
(b) explorer : contentment
(c) visionary : complacency
(d) rover : wanderlust

50. Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.
Marathan is to race as hibernation is to
(a) Winter   (b) Bear
(c) Dream   (d) Sleep

51. A technique used by codes to convert an analog signal into a digital bit stream is known as
(a) Pulse code modulation
(b) Pulse stretcher
(c) Query processing
(d) Queue management

52. An optical input device that interprets pencil marks on paper media is
(a) O.M.R.   (b) Punch card reader
(c) Optical scanners   (d) Magnetic tape

53. The most important advantage of an IC is its
(a) Easy replacement in case of circuit failure
(b) Extremely high reliability
(c) Reduced cost
(d) Low power consumption

54. Which language was devised by Dr. Seymour Cray?
(a) APL   (b) COBOL
(c) LOGO   (d) FORTRAN

55. As compared to diskettes, the hard disks are
(a) More expensive (b) More portable
(c) Less rigid   (d) Slowly accessed

56. What is the name given to the molecular scale computer ?
(a) Femto computer (b) Nano computer
(c) Super computer (d) Micro computer

57. Who is considered the 'father' of the minicomputer and one of the founder fathers of the modern computer industry worldwide ?
(a) George Tate   (b) Kenneth H. Olsen
(c) Seymour Cray   (d) Basic Pascal

58. The first microprocessor produced by Intel Corpn. and Texas Instruments were used primarily to control small
(a) Microwave ovens
(b) Washing machines
(c) Calculators
(d) Personal computers

59. The access method used for casette tape is :
(a) Direct   (b) Random
(c) Sequential   (d) All of the above

60. The arranging of data in a logical sequence is called as
(a) Sorting   (b) Classifying
(c) Reproducing   (d) Summarising

61. Who is the creator of the PASCAL language ?
    (a) Niklaus Writh   (b) Dijkstra
    (c) Donald Knuth   (d) Basic Pascal

62. When was punched-card equipment used for the first time to process the British census ?
    (a) 1910   (b) 1907
    (c) 1911   (d) 1914

63. A hashing scheme is used with
    (a) Sequential file organisation
    (b) Indexed sequential file organisation
    (c) Partitioned file organisation
    (d) None of these

64. What was the total number of UNIVAC-I sold eventually and by which company ?
    (a) 30, British Tabulating Machine co.
    (b) 40, International Business Machines
    (c) 48, Remington Rand
    (d) 40, International Computer Ltd.

65. Which kind of devices allows the user to add components and capabilities to a computer system ?
    (a) System boards   (b) Storage devices
    (c) Input devices   (d) Expansion slots

66. When an input electrical signal A = 10100 is applied to a NOT gate, its output signal is
    (a) 01011   (b) 10001
    (c) 10101   (d) 00101

67. Large computer system typically uses
    (a) Line printers
    (b) Ink-jet printers
    (c) Dot-matrix printers
    (d) Daisy wheel printers

68. Which one of the following bus types is used by the Apple Macintosh computer ?
    (a) ISA   (b) MuBus
    (c) EISA   (d) MCA

69. When the time to establish link is large and the size of data is small, the preferred mode of data transfer is :
    (a) Circuit switching
    (b) Packet switching
    (c) Time division multiplexing
    (d) All of the above

70. File specification books are created primarily for the use of
    (a) Systems analysts   (b) Programmers
    (c) Operators   (d) Managers

71. The micro process of a computer cannot operate on any information if that information is not in its
    (a) Secondary storage   (b) Main storage
    (c) ALU   (d) Control unit

72. How many digits of the DNIC (Data Network Identification Code) identify the country ?
    (a) First three   (b) First four
    (c) First five   (d) First six

73. A device that links two homogeneous packet broadcast local networks is :
    (a) Gateway   (b) Repeater
    (c) Bridge   (d) Hub

74. Telecommunications network come in a wide range of speed any capacity capabilities. Select the best fit
    (a) Bandwidth alternatives
    (b) Switching alternating
    (c) Inter organisational networks
    (d) Extranets

75. A modem is connected in between a telephone line and a
    (a) Network
    (b) Computer
    (c) Communication Adapter
    (d) Serial port

76. Find out the alternative figure which contains figure (X) as its part

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

77. Find out the alternative figure which contains figure (X) as its part

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

78. Find the number of triangles in the given figure

    (a) 8   (b) 10   (c) 12   (d) 14
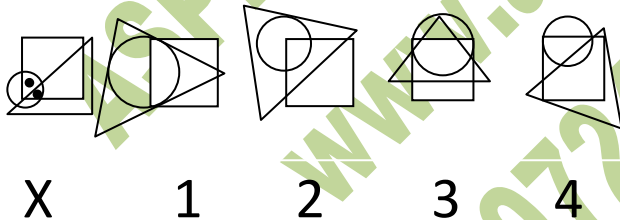
79. The number of triangles in the given figure is
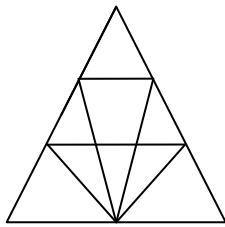
(a) 12   (b) 18   (c) 22   (d) 26

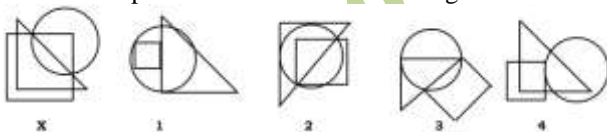80. Select a suitable figure from the four alternatives that would complete the figure matrix
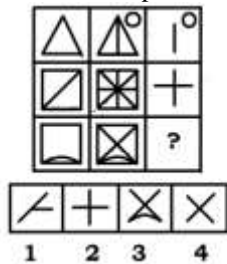
(a) 1   (b) 2   (c) 3   (d) 4

81. Select the figure which satisfies the same conditions of placement of the dots as in Figure-X

X   1   2   3   4

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

82. Select the figure which satisfies the same conditions of placement of the dots as in Figure-X
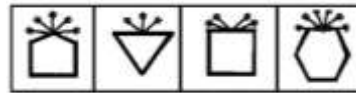

(a) 1   (b) 2   (c) 3   (d) 4

83. Choose the alternative which closely resembles the mirror image of the given combination
ANS43Q12

I. ANS43Q12
II. SIQE43ИA
III. 21043ANS
IV. 1SQ43AИS

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

84. Choose the figure which is different from the rest

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

85. Select a suitable figure from the answer figures that would replace the question mark (?)
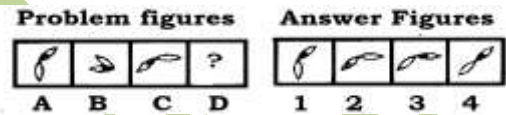
(a) 1   (b) 2   (c) 3   (d) 4

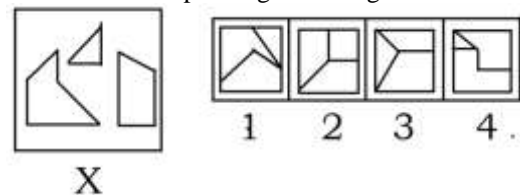86. Select a suitable figure from the answer figures that would replace the question mark (?)
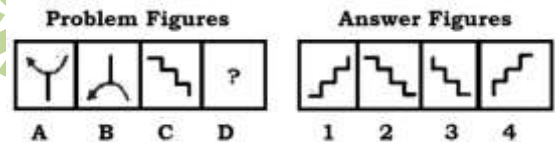
(a) 1   (b) 2   (c) 3   (d) 4

87. Select a suitable figure from the answer figures that would replace the question mark (?)
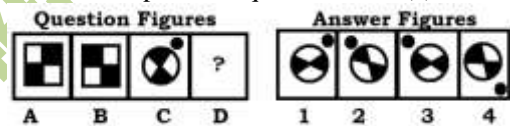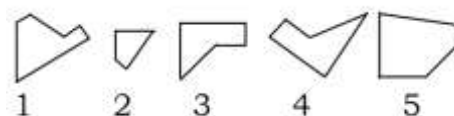

(a) 1   (b) 2   (c) 3   (d) 4

88. Find out which of the figure 1, 2, 3 and 4 can be formed from the pieces given in figure X
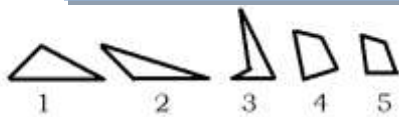

(a) 1   (b) 2   (c) 3   (d) 4

89. Select the alternative which represents three out of the five alternative figures which when fitted into each other would form a complete square
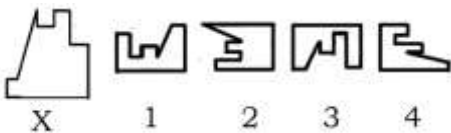

(a) 234   (b) 134   (c) 345   (d) 245

90. Select the alternative which represents three out of the five alternative figures which when fitted into each other would form an equilateral triangle
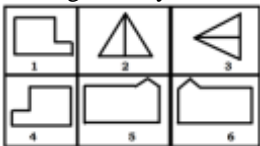
(a) 234   (b) 134   (c) 345   (d) 245

91. Select a figure from the given four alternatives which fits exactly into Figure-X to form a complete square.
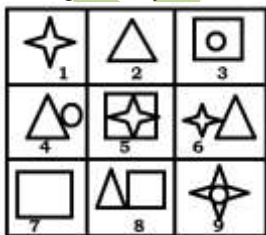

(a) 1   (b) 2   (c) 3   (d) 4

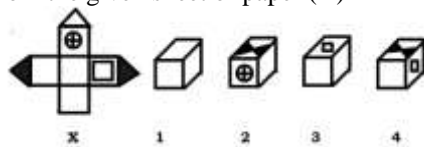**92.** Group the given figures into three classes using each figure only once

(a) 1,4 ; 2,3 ; 4,6   (b) 1,5 ; 2,6 ; 4,3
(c) 1,6 ; 2,3 ; 4,5   (d) 1,2 ; 3,6 ; 4,5

93. Group the given figures into three classes using each figure only once
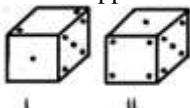

(a) 3, 4, 9; 5, 7, 8; 1, 2, 6
(b) 1, 5, 6; 2, 4, 8; 3, 7, 9
(c) 4, 6, 8; 3, 5, 7; 1, 2, 9
(d) 1, 2, 7; 3, 5, 9; 4, 6, 8

94. Choose the box that is similar to the box formed from the given sheet of paper (X)
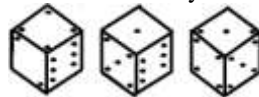

(a) 1 and 2 only   (b) 2 and 3 only
(c) 1 and 4 only   (d) 1, 2, 3 and 4

95. Observe the dots on a die (one to six dots) in the following figures. How many dots are contained on the face opposite to that containing four dots ?
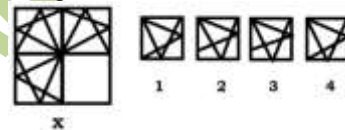

(a) 2   (b) 3
(c) 6   (d) Cant Determine

96. Three different positions of a dice are shown below. How many does lie opposite to 2 dots ?

(a) 1   (b) 3   (c) 5   (d) 6

97. Identify the figure that completes the pattern shown in Figure (X)
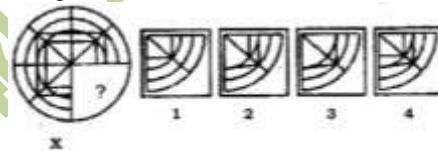

(a) 1   (b) 2   (c) 3   (d) 4

98. Identify the figure that completes the pattern shown in Figure (X)

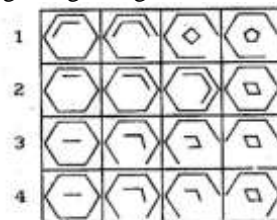(a) 1   (b) 2   (c) 3   (d) 4

99. Identify the figure that completes the pattern shown in Figure (X)

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

100. Choose the set of figures which follows the given rule
Rule : Closed figures losing their sides and open figures gaining their sides.

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

TANCET 2020
ANSWER KEY

1.B	2.C	3.B	4.D	5.A	6.B	7.D	8.B	9.B	10.D
11.C	12.D	13.B	14.D	15.C	16.D	17.C	18.B	19.A	20.B
21.B	22.C	23.C	24.B	25.A	26.B	27.A	28.C	29.C	30.A
31.C	32.B	33.B	34.B	35.C	36.D	37.D	38.D	39.C	40.D
41.D	42.A	43.B	44.A	45.B	46.C	47.C	48.C	49.D	50.D
51.A	52.A	53.B	54.C	55.A	56.B	57.B	58.C	59.C	60.A
61.A	62.C	63.B	64.C	65.D	66.A	67.A	68.B	69.B	70.B
71.B	72.A	73.B	74.A	75.B	76.A	77.C	78.C	79.B	80.C
81.D	82.B	83.D	84.B	85.C	86.C	87.C	88.A	89.D	90.C
91.B	92.C	93.D	94.#	95.B	96.C	97.B	98.B	99.D	100.A

Add:-Lakhanpur Near(Petrol Pump),Gurdev
E- Mail : aspirestudykanpur@gmail.com
KANPUR
8400072444
Page 8
ASPIRE