STUDY CAMPUS
AN ISO 9001 : 2015 CERTIFIED INSTITUTE

AFCAT MOCK TEST 04

Instructions for candidates

TIME ALLOTTED – 2HRS

1. Total No. of Questions – 100. Each Question is of three marks.
2. One mark will be deducted for every wrong answer.

NUMERICAL ABILITY

1. The digit in unit's place of the product 71 × 72 × 73 × …× 79 is
   a) 0   b) 2
   c) 6   d) 8

2. The sum and product of two numbers are 13 and 42 respectively. The sum of their reciprocals will be
   a) $\dfrac{13}{42}$ b) $\dfrac{4}{13}$
   c) $\dfrac{5}{42}$ d) $\dfrac{42}{13}$

3. $999\dfrac{1}{7}+999\dfrac{2}{7}+999\dfrac{3}{7}+999\dfrac{4}{7}+999\dfrac{5}{7}+999\dfrac{6}{7}$
   Is simplified to:
   a) 5997   b) 5979
   c) 5994   d) 2997

4. A boat takes 3 hours to travel from place A to B downstream and back from B to A upstream. If the speed of the boat in still water is 4 km, what is the distance between the two place?
   a) 12 km   b) 8 km
   c) 6 km   d) data inadequate

5. The speed of a boat in still water is 4 km/hr and the speed of current is 2 km/hr. If the time taken to reach a certain distance upstream is 9 hours, the time it will take to go to same distance downstream is
   a) 3.5 hrs   b) 2.5 hrs
   c) 2 hrs   d) 3 hrs

6. Kiara , Sonal and Deepa take DVD at a rent of Rs. 578. If they used it for 8 hours, 12 hours and 14 hours respectively, what is Kiara's share of rent to be paid ?
   a) Rs. 238   b) Rs. 204
   c) Rs. 192   d) none of these

7. Persons in the ratio of 2 : 3 : 4 : 5. Out of the four, one person gets Rs. 200 more than the other and Rs. 100 less than another. What is the sum?
   a) Rs. 2800
   b) Rs. 1400
   c) Rs. 4200
   d) Cannot be determined

8. A sum becomes 8000 in 3 years and 10000 in 6 years at C.I. Find the sum?
   a) Rs6400   b) Rs6500
   c) Rs6000   d) Rs7000

9. If a certain sum becomes double in 3 years at certain rate of interest at C.I. Then in how many years it will become 16 times?
   a) 12 years
   b) 24 years
   c) 8 years
   d) Cannot be determined

10. The average age of a husband and his wife was 23 years at the time of their marriage. After 5 years they had a child of one year old. The average age of the family of three, when the child was born was.
    a) 23 years   b) 24 years
    c) 18 years   d) 20 years

11. Two years ago the average age of a family of 8 members was 18years. After the addition of a baby, the average age of that family is same today. What is the age of the baby?
    a) 2 years   b) $1\dfrac{1}{2}$ years
    c) 1 year   d) $2\dfrac{1}{2}$ Years

12. Ram's salary increased from 5500 to 6000. What is the percent increase in his salary?
    a) 12%   b) $16\dfrac{2}{3}\%$
    c) $9\dfrac{1}{11}\%$ d) 25%

13. If A exceeds B by 40%, B is less than C by 20%, then A : C is
    a) 28 : 25   b) 26 : 25
    c) 3 : 2   d) 3 : 1

14. A and B can together finish a work in 30 days. They work together for 20 days and then B left. After another 20 days, A finished the remaining work. In how many days A alone can finish the job?

a) 50 days   b) 60 days
c) 48 days   d) 54 days

15. If 1 man or 2 women or 3 boys can do a piece of work in 44 days, then the same piece of work will be done by 1 man, 1woman and 1 boy in
a) 21 days   b) 24 days
c) 26 days   d) 33 days

16. A motor starts with the speed of 70 kmph with its speed increasing every two hours by 10 kmph .In how many hours will it cover 345 kms?
a) $2\frac{1}{4}2$ hours   b) $4\frac{1}{2}$ hours
c) 4 hours 5 minutes   d) None theses

17. A train is travelling at the rate of45km/hr. How many seconds it will take to cover a distance of 4/5 km?
a) 36 sec.   b) 64 sec.
c) 90 sec.   d) 120 sec.

18. A train passes two bridges of lengths 800 m and 400m in 100seconds and 60 seconds respectively. The length of the train is :
a) 80 m   b) 90 m
c) 200 m   d) 15m

19. A single discount of 50% on an article costing Rs. 10000 is better than to successive discounts of 40% and 10% by
a) 400   b) 1000
c) 500   d) 600

20. A shopkeeper sell his goods at 25% loss but he uses false weight of 30%. Find the loss or profit of shopkeeper in this whole process?
a) 50/7% profit   b) 50/3% profit
c) 50/7% loss   d) 50/3% loss

21. x does $\frac{1}{4}$ of a job in 6 days. Y completes rest of the job in 12 days then x and y could complete the job together in?
a) 9 days   b) $8\frac{1}{8}$ days
c) $9\frac{3}{5}$ days   d) $7\frac{1}{3}$ days

22. $\dfrac{1\frac{1}{4} \div 1\frac{1}{2}}{\frac{1}{15} + 1 - \frac{9}{10}} = ?$
a) 3   b) 6
c) $\frac{2}{5}$ d) 5

23. The diameter of each wheel of car is 70 cm. if each wheel rotates 400 times per minutes, then the speed of the car (in km/h) is (take $\pi = \frac{22}{7}$)
a) 5.28   b) 528
c) 52.8   d) 0.528

24. Find the HCF of $\frac{3}{4}, \frac{5}{6},$ and $\frac{6}{7}$
a) $\frac{5}{14}$ b) $\frac{1}{84}$
c) $\frac{1}{63}$ d) $\frac{1}{168}$

25. The average run of a player is 32 out of 10 innings. How many runs must he made in the next inning so as to increase his average by 6?
a) 98   b) 6
c) 40   d) 38

REASONING AND MILITARY APTITUDE TEST

Direction- (26-30) Which is the one that <u>does not</u> belong to the same group?

26. a) jowar   b) wheat
c) mustard   d) bajra

27. a) anxiety   b) worry
c) inhibition   d) weariness

28. a) meter   b) furlong
c) acre   d) mile

29. a) raniganj   b) jharia
c) baroda   d) bokaro

30. a) bottle : wine   b) cup : tea
c) pitcher : water   d) ball : bat

Direction-(31-35) Find the similar relation

31. Hongkong : China : : Vatican : ?
a) France   b) Mexico
c) Canada   d) Rome

32. Virus : Smallpox : : Bacteria : ?
a) Chickenpox   b) Typhoid
c) Malaria   d) Sleeping sickness

33. Procession : Route : : Earth : ?
a) Space   b) Sun
c) Orbit   d) Highway

34. Fish : Scales : : Bear : ?
a) Features   b) Leaves
c) Fur   d) Skin

35. Country : President : : State : ?

a) Chief Minister   b) Prime Minister

c) Speaker   d) Governor

36. Preeti has a son, named Arun. Ram is Preeti's brother. Neeta too has a daughter, named Reema. Neeta is Ram's sister. What is Arun's relationship to Reema?

a) Brother   b) Nephew

c) Cousin   d) Uncle

37. Vishal is elder than Aakash but younger than subhi, Yaksh is younger than Deepak but elder than aakash. If subhi is younger than Deepak, then who is the eldest?

a) Aakash   b) Vishal

c) Subhi   d) Deepak

38. Z, S, W, 0, T, K, Q, G, ..., ...

a) N,C   b) N,D

c) S,E   d) O,D

39. Statements: No room is tiger. All tigers are goats

Conclusion:

I.   Some goats are rooms.

II.   All goats are rooms.

III. Some goats are tigers.

a) None follows

b) Only either II or III

c) Only either I or III follows

d) None of these

40. Statements: Some cars are roads. Some roads are buses.

Conclusion:
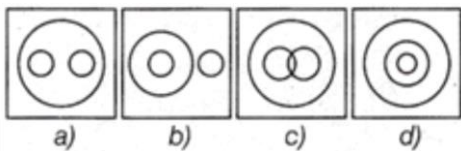
I.   Some roads are cars.

II.   Some buses are cars.

III. Some buses are roads.

a) All follow

b) Only I and II follow

c) Only II and III follow
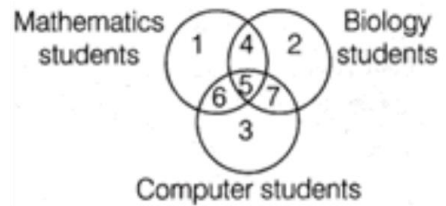
d) Only I and III follow

41. Which of the following diagrams represents the correct relationship between books, Novels and Dictionaries?

42. Which of the following diagrams represents the correct relationship between India , Pakistan and Asia ?
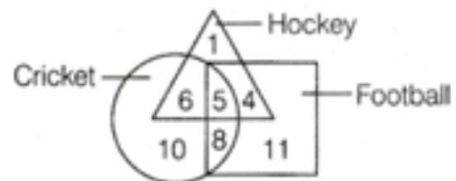

43. Identify the region that represents students studying Biology and Computer not Mathematics.
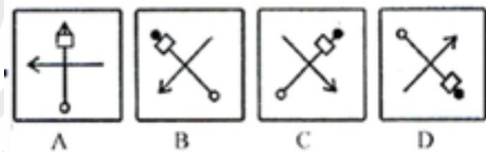

a) 5   b) 7

c) 1   d) 3

44. In the following diagram, the circle represents Cricket players, the triangle represent Hockey players and the square represents Football players. How many play both Football and Hockey?
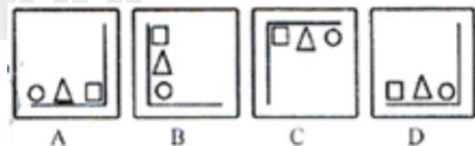

Directions (45-47): In the questions that follow, four figures are given, out of which one does not belong to the group. Identify the odd one out.
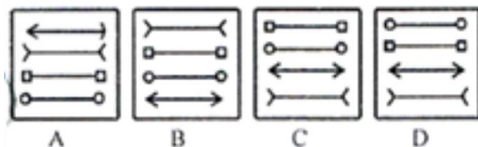
45.

a) B   b) A

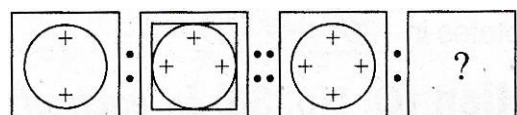c) C   d) D

46.

a) C   b) B
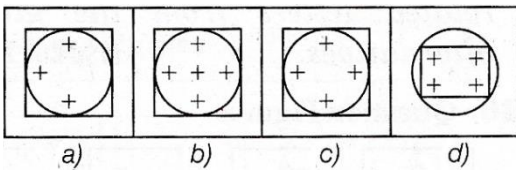
c) D   d) A

47.

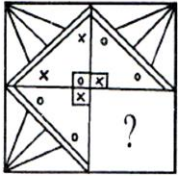**48.** Select the related figure from the given alternatives.

Question Figures

Answer Figure

a)   b)   c)   d)

49. Find the missing figure?

(a)   (b)   (c)   (d)

50.

X

(a)   (b)   (c)   (d)

51.

X

(a)   (b)   (c)   (d)
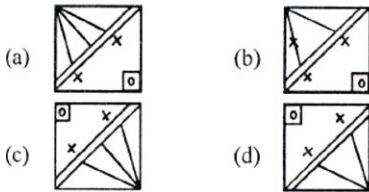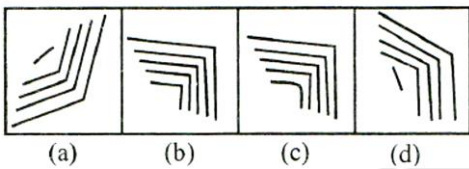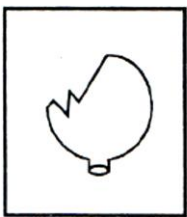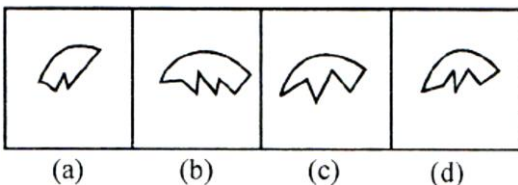
52. Find the next series?

Answer Figures

1   2   3   4

1   2   3   4   ?
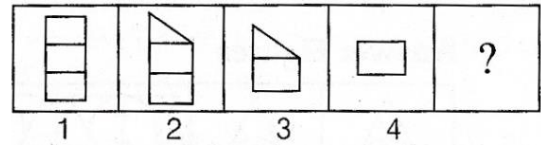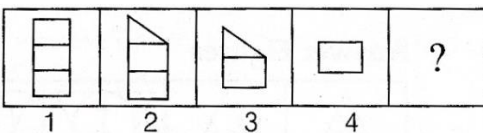
Directions (Qs.53 - 54): In the following question from the given answer figures, select the one in which the question figure is hidden/embedded.

53. Question Figure

Answer Figures

a)   b)   c)   d)
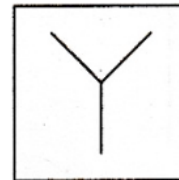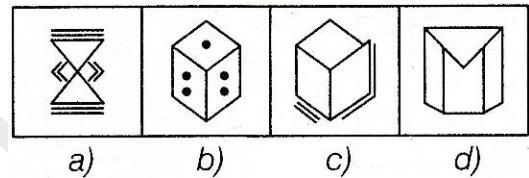
54. Question Figure

Answer Figure

a)   b)   c)   d)

55. Find out the mirror image?

Answer Figures

(a)   (b)   (c)   (d)

ENGLISH LANGUAGE

Directions (Qs.56-60) In the following questions choose the correct synonym /antonym.

56. **Synonym of <u>Mollify</u>**
    a) Irrilate   b) Appease
    c) Code   d) Flash

57. **Synonym of <u>Haughty</u>**
    a) Arrogant   b) Humble
    c) Clever   d) Innocent

58. **Synonym of <u>Feud</u>**
    a) Crown   b) Frustrated
    c) Perplex   d) Quarrel

59. **Antonym of <u>Hamper</u>**
    a) Promote   b) Retard
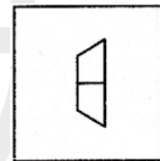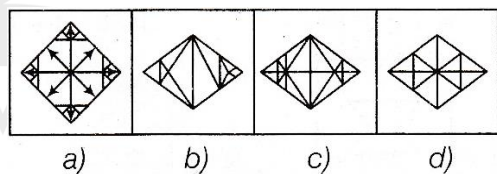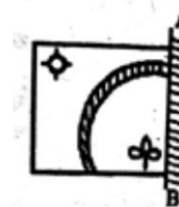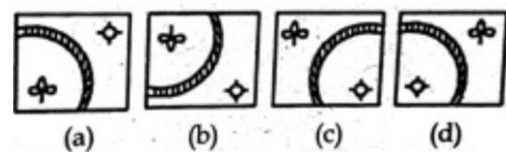   c) Prevent   d) None of the above

60. **Antonym of <u>Flimsy</u>**
    a) Trifling   b) Transparent
    c) Firm   d) Quire

Directions (Qs. 61-64) Choose the correct meaning of given idioms /phrases.

61. **At daggers drawn**
    a) To throw daggers b) To be bitterly hostile
    c) To be confused   d) To think deeply

62. **To burn one's fingers**
    a) To get injured in an accident
    b) To pay a heavy price
    c) To suffer from meddling in something
    d) To get a burn injury on the hands

63. **To bury the hatchet**
    a) To make peace with the enemy
    b) To throw soil over something
    c) To make someone cry
    d) To kill someone

64. **To run riot**
    a) Befool other
    b) Be violent in action
    c) Criticise other
    d) Behave in an undisciplined way.

Directions (Qs. 65 – 68) In the given sentences, a part of sentence consists of error. Choose the part of the sentence which has error. If there is no error then your answer is no error (d).

65. **When shall we (a) / arrive (b) /to our destination (c) / No error (d)**

66. **Based on the newspaper reports (a) / we can conclude that (b) / many accidents caused by reckless driving (c.) / No error (d)**

67. **The officer (a) is angry, on the clerk (b) for not attending the work. (c) no error (d)**

68. **You must either tell me (a) the whole story or, at least (b) the first half of it. (c) no error (d)**

Directions (Qs. 69 – 72) In the following questions, the sentence given with the blank to be filled with anappropriate word. Select the correct alternative out of the four.

69. **If you do well in this exam next year, then my efforts ……… successful.**
    a) will be   b) would have been
    c) has been   d) have been

70. **Sanjay was_____ with divine vision to see the great battle.**
    a) demure   b) authorized
    c) endowed   d) uttered

71. **Masked men ……… a security van on the motor way.**
    a) held up   b) held out
    c) held on   d) held forth

72. **The world is so constructed that if you wish to enjoy its pleasures, you must also_____ its pains.**
    a) deny   b) neglect
    c) ignore   d) endure

Directions (Qs.73 – 77) Read the passage carefully and answer the questions below from the given options.

A pioneering scheme has been started recently in Southampton on England's south coast to educate motorists who have been convicted of drunken driving. The penalty for drunken driving might be the loss of a driving licence and a heavy fine. But under the new scheme, convicted drivers do not pay the fine. Instead they have to attend eight training sessions—one a week organized by the local authority probation service. Designed to demonstrate the damage alcohol can do, the scheme was devised by senior probation officer John Cook. He said about a quarter of the people who came to him had a drink problem, but had not realized how much they were drinking. One way of getting the message across was to make the drivers pour out their usual ration of alcohol and then measure it. Almost everyone pours out not a single measure but a double at least an example of how easy it is to have more than just one drink and to encourage other people to do the same. The instructors on the course are giving clinical evidence of the effects of alcohol on the body and brain. The sober truth is that drinking badly affects driving skills, although the drinker might like to believe otherwise.

73. **The Southampton scheme requires convicted drivers.**
    a) to pay a heavy fine
    b) to attend eight driving sessions–one a week
    c) to undergo a probation service
    d) to surrender their driving licence

74. **John Cook devised the scheme**
    a) as a demonstration technique for driving
    b) to demonstrate the harmful effects of alcohol
    c) to show that Southampton was concerned about drivers
    d) to prove that alcohol does influence driving.

75. **The problem with a quarter of the people who went to John Cook was that they**
    a) did not want to stop drinking
    b) were unaware of the fact that they could get drunk
    c) would not admit that they had a drinking problem
    d) did not know how much they were drinking

76. **Most drivers start off with at least**
    a) a double measure
    b) a single measure
    c) a little less than a single measure
    d) two doubles

77. **The truth is that alcohol**
    a) does not affect the body but only the brain
    b) affects only the brain
    c) affects the body and the brain
    d) has no effect on the body or the brain.

Directions (Qs.78 – 80) For the rule of law to be well …..**78**…….. and enforced, we need to start at the very beginning — mobilising our local communities. A strong, mobilized, civil society is a necessary condition to hold the State to account. It is not about one seemingly revolutionary protest, even if the well-meaning antagonists of the CAA ……**79**……. believe so. When violence and lawlessness spill over into the streets and begin to constrain our work-a-day lives, as it has across India; when the police are routinely challenged by those on the wrong side of the …..**80**…..; when the police force is overworked and overwhelmed by political subterfuge, our society will be on the brink. As a society, we are currently engaged in a negative-sum game. The rule of law cannot, unlike riots, be engineered. It can only be practiced if we understand that liberty has to be balanced with equality; and pluralism entails a measure of negative liberty.

78. a) Establish   b) Establishing
    c) Established   d) None of these
79. a) genuine   b) genuinely
    c) wrong   d) right
80. a) face   b) Law
    c) Police   d) None of these

GENERAL AWARENESS

81. **When did Alexander invaded India?**
    a) 326 BC   b) 332 BC
    c) 323 BC   d) None of these

82. **Who was the ruler of the kingdom between the rivers Jhelum and Chenab?**
    a) Alexander the Great
    b) Darius III
    c) King Porus
    d) Chandragupta Maurya

83. **Who was the last Hindu emperor of northern India?**
    a) Harshavardhana   b) Pulakesin II
    c) Rajyavardhana   d) Skandagupta

84. **Which of the following reason was influenced by the preaching of Bhakti Saints Nimbarka and Vallabahachrya?**
    a) Kannada Region   b) Telugana Region
    c) Tamilian Region   d) Maratha Region

85. **Who among the following composed the Hindi version of Ramayana?**
    a) Tulsidas   b) Valmiki
    c) Ramananda   d) Kabir

86. **Which one of the following places was famous as a seat of**
    a) Nalanda   b) Taxila
    c) Varanasi   d) Sarnath

87. **According to the Dharmashastras 'Anuloma' is a marriage between a**
    a) higher caste man and a lower caste woman
    b) lower caste man and a higher caste woman
    c) man and a woman of the same caste
    d) man and a woman of the same gotra

88. **Who among the following leader headed the interim Government of 1946?**
    a) C. Rajagopalachari b) M.K Gandhi
    c) Jawaharlal Nehru   d) Dr. Rajendra Prasad

89. **Who was the first Governor General of the new Indian Dominion?**
    a) Rajendra Prasad   b) Vallabhbhai Patel
    c) Rajagopalachari   d) Lord Mountbatten

90. **National emergency is declared under which of the following articles?**
    a) Article 358   b) Article 352
    c) Article 359   d) Article 360

91. **The Governor of the State can be removed by which one of the following?**
    a) Chief Minister
    b) Prime Minister
    c) Union Home Minister
    d) President

92. **India's longest Peninsular river is---**
    a) Narmada   b) Krishna
    c) Godavari   d) Mahanadi

93. **In which State is the Hydel Power Project Nathpa Jhakri located?**
    a) Himachal Pradesh
    b) Uttarakhand
    c) Jammu & Kashmir
    d) Madhya Pradesh

94. **The rate of change of linear momentum of a body falling freely under gravity is equal to it's?**
    a) Impulse   b) Weight
    c) Potential Energy   d) Kinetic Energy

95. **A bucket of water is hung from a spring balance. A piece of iron is suspended in the water without touching the sides or touching the bottom of the bucket. The reading of the spring balance will**
    a) Decrease   b) Increase
    c) Does not change
    d) Varies with the increase of depth of the immersion of the iron piece

96. **The longest fibre on the cell body of a neuron is called:**
    a) Dendrites   b) Nerve endings
    c) Myelin   d) Axon

97. **The axon passes the impulse to another neuron through a junction called:**
    a) Nucleus   b) Synapse
    c) Nerve endings   d) Cytoplasm

98. **Which Indian state/UT launched a new initiative named 'Jail tourism'?**
    a) Andaman & Nicobar Islands
    b) Maharashtra
    c) Gujarat
    d) West Bengal

99. **The Reserve Bank of India (RBI) proposed a four-tier regulatory framework for which type of financial institutions?**
    a) Payment Banks
    b) NBFCs
    c) Small Finance Banks
    d) Foreign Banks

100. **'Toshali National Crafts Mela', which was making news recently, was organised in which state/UT?**
    a) Odisha   b) Bihar
    c) Uttarakhand   d) Andhra Pradesh

❖❖❖
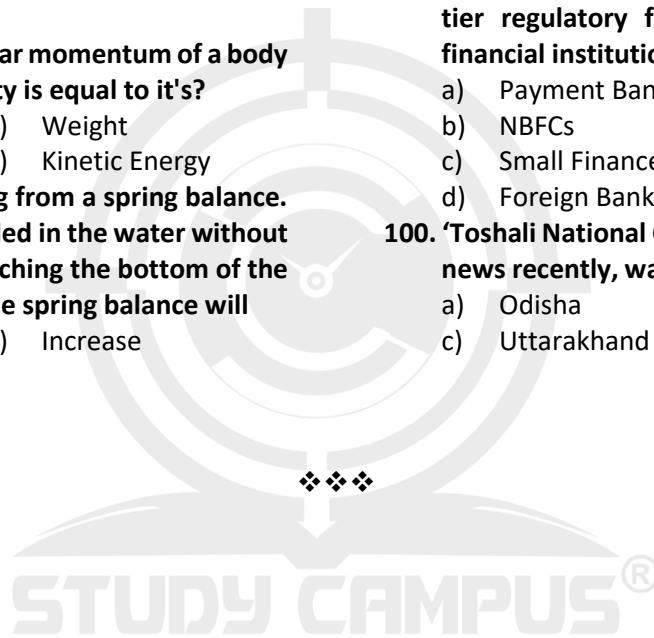
ANSWER KEY

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