STUDY CAMPUS
AN ISO 9001 : 2015 CERTIFIED INSTITUTE

AFCAT MOCK TEST 05

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. Find the value of $\frac{1}{5} + 999\frac{494}{495} \times 99$
   a) 90000
   b) 99990
   c) 90900
   d) 99000

2. The value of $\left(0.\overline{45} + 0.\overline{55}\right)$ is
   a) 1
   b) $\frac{100}{99}$
   c) $\frac{99}{100}$
   d) $\frac{100}{33}$

3. Which of the following fraction is greater than $\frac{3}{4}$ but less than $\frac{5}{6}$.
   a) $\frac{2}{3}$
   b) $\frac{1}{2}$
   c) $\frac{4}{5}$
   d) $\frac{9}{10}$

4. A boat running downstream covers a distance of 16 km in 2 hours while for covering the same distance upstream, it takes 4 hours. What is the speed of the boat in still water ?
   a) 4 km /h
   b) 6 km/h
   c) 8 km/h
   d) Data inadequate

5. A man can row upstream 36 km in 6 hours, If the speed of man in still water is 8 km/h. find how much he can go downstream in 10 hours.
   a) 100 km
   b) 110 km
   c) 90 km
   d) 115 km

6. In a college the number of students studying Arts, Commerce and Science are in the ratio of 3 :5 : 8 respectively. If the number of students studying Arts, Commerce and Science is increased by 20%, 40% and 25% respectively, what will be the new ratio of students in Arts, Commerce and Science respectively ?
   a) 18 : 35 : 50
   b) 3 : 10 : 10
   c) 4 : 8 : 5
   d) 32 : 35 : 25

7. The ratio between the three angles of a quadrilateral is 1 : 6 : 2 respectively. The value of the fourth angle of the quadrilateral is 45°. What is the difference between the value of the largest and the smallest angles of the quadrilateral ?
   a) 165°
   b) 140°
   c) 175°
   d) 150°

8. Find the Compound Interest on Rs 30,000, if the rate of interest for first year is 5% second year is 10% and on the third year is 20%
   a) 11580
   b) 11500
   c) 10500
   d) 10000

9. What sum of money must be given as simple interest for six months at 4% per annum in order to earn 150 interest?
   a) 5000
   b) 7500
   c) 10000
   d) 15000

10. 5 years ago, the average age of A, B, C and D was 45 years. With E joining them, the average age of all the five is 49 years. How old is E?
    a) 25 years
    b) 40 years
    c) 45 years
    d) 64 years

11. Five years ago, the average age of P and Q was 25. The average age of P, Q and R today is 25. Age of R after 5 years will be
    a) 15 years
    b) 20 years
    c) 40 years
    d) 35 years

12. A student has to score 35% marks to pass. He scores 90 marks and fails by 15 marks, find the maximum marks?
    a) 150
    b) 300
    c) 250
    d) 200

13. If 15% of A is equal to 20% of B, then 25% of A is equal to what % of B?
    a) 30%
    b) 33.33%
    c) 35%
    d) 25%

14. A can do a work in 9 days, if B is50% more efficient than A, then in how many days can B do the same work?
    a) 13.5 days
    b) 4.5 days
    c) 6 days
    d) 3 days

15. A is 30% more efficient than B, and can alone do a work in 23days. The number of days, in which A and B, working together can finish the job is
    a) 11 days
    b) 13 days
    c) 20 days
    d) 21 days

16. Two men are standing on opposite ends of a bridge 1200 meters long. If they walk towards each other at the rate of 5m/min and 10m/min respectively, in how much time will they meet each other ?
    a) 60 minutes
    b) 80 minutes
    c) 85 minutes
    d) 90 minutes

17. A train running at 7/11 of its own speed reached a place in 22hours. How much time could be saved if the train would run at its own speed?
    a) 14 hours
    b) 7 hours
    c) 8 hours
    d) 16 hours

18. A boy rides his bicycle 10km at an average speed of 12 km/hr and again travels 12 km at an average speed of 10 km/hr. His average speed for the entire trip is approximately:
    a) 10.4 km/hr
    b) 10.8 km/hr
    c) 11.0 km/hr
    d) 12.2 km/hr

19. The price of coal is increased by 20%. By what percent a family should decrease its consumption so that expenditure remains same?
    a) 25%
    b) 14(2/7)%
    c) 16(2/3)%
    d) 20%

20. An article passes successfully in the hand of three traders. Each trader sold it further at a gain of 20% of the cost price. If the last trader sold it for Rs 432   then what was the cost price?

a) Rs 125
b) Rs 256
c) Rs 250
d) Rs 432

21. 20 men can do a piece of work in 18 days, they worked together for 3 days then 5 men joined them. In how many more days is the work completed?
    a) 12 days
    b) 14 days
    c) 13 days
    d) 15 days

22. $\sqrt{5+\sqrt{11+\sqrt{19+\sqrt{29+\sqrt{49}}}}} = ?$
    a) 3
    b) 2
    c) 4
    d) 6

23. A man goes from a place A to B at a speed of 12 km/hr and return from B to A at a speed of 18 km/h. the average speed of the total journey is ?

    a) $14\dfrac{2}{5}km/h$
    b) $15 km/h$

    c) $15\dfrac{1}{2}km/h$
    d) $16 km/h$

24. The difference between the greatest and least prime numbers which are less than 100 is?
    a) 95
    b) 96
    c) 97
    d) 94

25. Average of first five prime numbers is?
    a) 5.3
    b) 5.6
    c) 5
    d) 3.6

REASONING AND MILITARY APTITUDE TEST

Directions(Qs26-30): in each of the following questions, four words pair of words/groups of letters/numbers have been given. Out of which three are alike in some manner and one is different. Choose the odd one out

26. a) atom : electron
    b) train : engine
    c) house : room
    d) curd : milk

27. a) crime : punishment
    b) judgment : advocacy
    c) enterprise : success
    d) exercise : health

28. a) broad : wide
    b) light : heavy
    c) tiny : small
    d) big : large

29. Rice, wheat, barley, millets, gram
    a) wheat
    b) barley
    c) millets
    d) gram

30. a) Beetroot
    b) Radish
    c) Carrot
    d) Cabbage

Direction-(Qs.31-35) Find the similar relation

31. Spring : Summer : :
    a) Sunday : Monday
    b) Thursday : Wednesday
    c) Tuesday : Friday
    d) Friday : Monday

32. CONDENSATION : REFRIGERATE : :
    a) evaporation : heat
    b) consumption : cook
    c) oration : listen
    d) exhaustion : buy

33. HANDCUFFS : PRISONER : :
    a) shoes : feet
    b) leash : dog
    c) tail : kite
    d) ring : finger

34. ISLAND : OCEAN : :
    a) hill : stream
    b) forest : valley
    c) tree : field
    d) oasis : desert

35. FISSION : FUSION ::
    a) implosion : explosion

b)   separation : togetherness

c)   intrusion : extrusion

d)   enemy : friend blood

36. If Amit's father is Billoo's father's only son and Billoo has neither Brother nor a daughter. What is the relationship between Billoo and Amit?

a)   Uncle – Nephew   b)   father – Daughter

c)   Cousins   d)   None of these

37. Seema's younger brother Sohan is older than Seeta. Sweta is younger than Deepti but elder than Seema. Who is the eldest?

a)   seema   b)   Sweta

c)   Seeta   d)   Deepti

38. EJO,TYD, INS,XCH,?

a)   NRW   b)   MRW

c)   MSX   d)   NSX

39. Statements: Some men are lions. All foxes are lions.

Conclusion:

I.   Some foxes are men.

II.   Some lions are men.

III. All lions are foxes.

a)   All follow

b)   Only I and II follow

c)   Only II follows

d)   Only III follow

40. Statements: All petals are trees. All trees are gardens. All roads are gardens.

Conclusions:

I.   Some roads are trees.
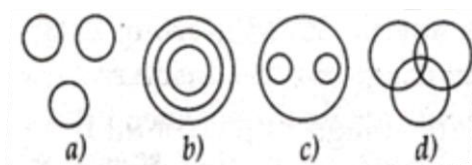
II.   Some gardens are trees.
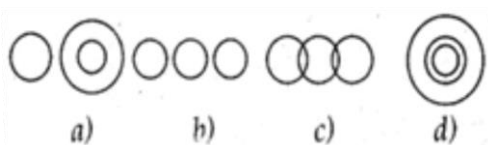
III. Some gardens are petals.

a)   Only I and II follow

b)   Only II and III follow

c)   Only I and III follow.

d)   All I, II, and III follow

Directions (Qs.41-44) In the following questions, which one of the following diograms represents the correct relationship among:
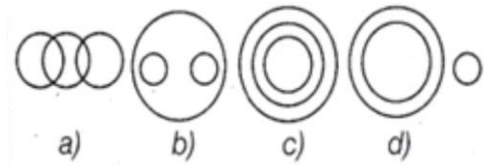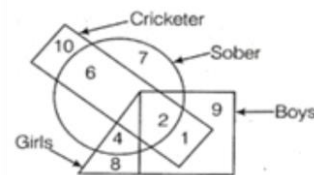
41. Lion, Fox and Carnivorous

42. Manager, Labour Union and Workers

43. Identify the diagram that best represents the relationship among classes given below Food, Curd, Spoons

44. In the following figure, the boys who are cricketer and sober are indicated by which number?

Directions (Qs.45 - 46): 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.
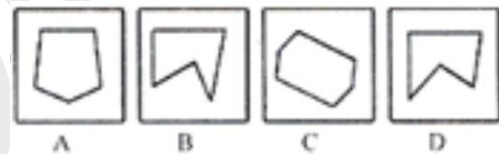
a)   C   b)   A

c)   B   d)   D

46.

a)   B   b)   A

c)   D   d)   C

47. Find the similar relation.

Questions Figures

Answer Figures

Directions (Qs. 48 - 50): In each of the following questions, figure X is given with a part missing.

48. Choose the alternative which will complete the missing part.
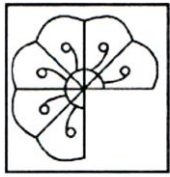
X
Answer Figure
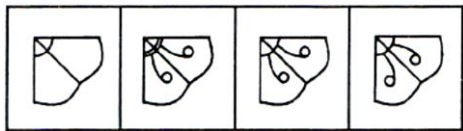
(a)   (b)   (c)   (d)

49.

(X)

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

50.

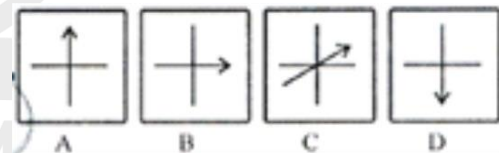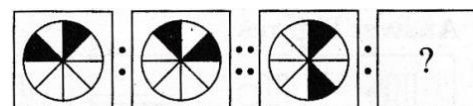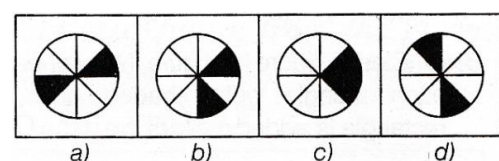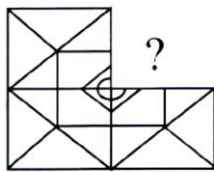

(X)   (1)   (2)   (3)   (4)

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

51. Find the missing series
Question Figures
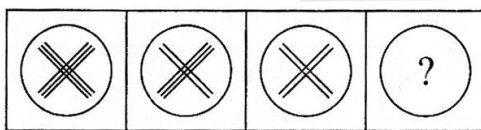
1   2   3   4

Answer Figures
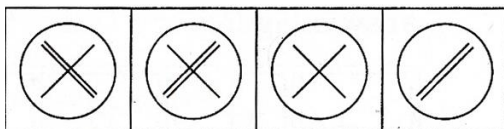
a)   b)   c)   d)

52. From the given answer figures, select the one in which the question figure in hidden/embedded.
Question Figure
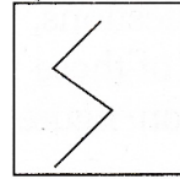
Answer Figures
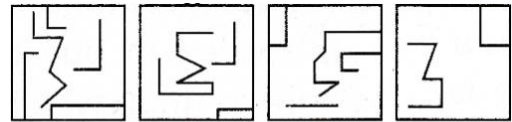
a)   b)   c)   d)

53. Trace out the alternative figure which contain fig. (X) as its part.
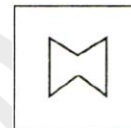
(X)
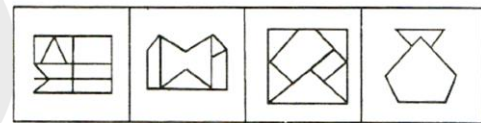
(a)   (b)   (c)   (d)

54. In a zoo, there are rabbits and pigeons. T heir heads are counted, there are 200 and if legs are counted, there are 580. How many pigeons are there?
a) 90   b) 100
c) 110   d) 120

55. Find out the mirror image
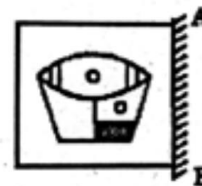
Answer Figures
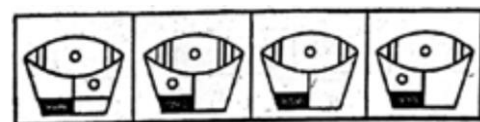
(a)   (b)   (c)   (d)

ENGLISH LANGUAGE

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

56. Synonym of Hamper
a) Irrilate   b) Appease

c) Prevent   d) Flash

57. Synonym of Antipathy
- a) Hostility
- b) Humble
- c) Clever
- d) Innocent

58. Synonym of Buffle
- a) Crown
- b) Frustrate
- c) Common
- d) Quarrel

59. Antonym of Delete
- a) Promote
- b) Retard
- c) Prevent
- d) Insert

60. Antonym of Ambiguity
- a) Clarity
- b) Transparent
- c) Firm
- d) Quire

Directions (Qa.61-65) Choose the correct meaning of given idioms /phrases.

61. To read between the lines
- a) To suspect
- b) To read carefully
- c) To understand the hidden meaning of the word
- d) To do useless things

62 A Curtain Lecture
- a) To speak plainly
- b) Vulgar ideas
- c) Private scolding of a husband by his wife
- d) Hate others

63. To face the music
- a) To prepare to give a musical performance
- b) To suffer evil consequences
- c) To suffer hardships
- (d) To change the things

64 Square pegs in round holes
- (a) A genuinely helpful person
- b) A clever person
- c) People in the wrong jobs
- d) To be perplexed

65 To leave no stone unturned
- (a) To keep clean and tidy
- b) To try utmost
- c) To work enthusiastically
- d) To change the things

Directions (Qs. 66 – 70) 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).

66. The oxygen content of Mars is not (a)/ sufficient enough to support life (b)/as we know it. (c)/No error (d)

67. He told his friends that (a)/ each of them (b)/should be able to carry out the orders oneself. (c)/ No error (d)

68. He is (A)/ one of those students (B)/ who comes late regularly. (C)/ No error (D)

69. For a long time (a)/ I did not know who was sitting besides me (b)/ because it was so dark. (c)/ No error (d)

70. The police has (a)/ arrested the thief (b)/ who broke into my house (c)/ last night. (d)

Directions (Qs. 71-73) In the following questions, the sentence given with the blank to be filled with an appropriate word. Select the correct alternative out of the four.

71. Although the two sisters are twins, they look somewhat _____.
- a) alike
- b) unique
- c) different
- d) related

72. I am _____ forward to our picnic scheduled in the next month.
- a) seeing
- b) looking
- c) planning
- d) thinking

73. Lost time is _____ again, and what we call time enough always proves little enough.
- a) found never
- b) find never
- c) never found
- d) never been found.

Directions (Qs. 74 – 78) Read the passage carefully and answer the questions below from the given options.

My brother, David, was always close to our grandmother. Both of them shared a love of Mother Nature and of food that they had grown themselves. Whenever his schedule permitted, he would drop in for a short visit and a cup of coffee. One day, when he found no one home, he left a chunk of dirt on her porch. This started what was later to be known as his "calling card". Grandmother would come home occasionally and instantly know that Dave had been by when she spotted the chunk of dirt on her porch. Although Grandmother had a poor upbringing in Italy, she managed to do well in the United States. She was always healthy and independent and enjoyed a fulfilling life. Recently she had a stroke and died. Everyone was saddened by her death. David was disconsolate. His life-long friend was now gone.

74. Which of the following is the synonym of the word 'upbringing'?
- a) Devastated
- b) Hilarious
- c) raising
- d) surrounding

75. The adjective form of the word 'saddened' is–
- a) sadly
- b) sad
- c) suddenly
- d) sudden.

76. What was condition of grandmother earlier?
- a) rich in Italy but poor in the United States
- b) in the United States but is now in Italy
- c) poor earlier but became rich later on
- d) rich earlier but now poor

77. Grandmother enjoyed a _____ life.
   a) healthy but sickly
   b) good and healthy
   c) rich but sickly
   d) poor and healthy

78. Grandmother's death made everyone
   a) sad including David
   b) disconsolate excluding David
   c) happy and disconsolate
   (d) sad excluding David

Directions (Qs.79-80) In the following passage, some of the blanks are left out. Read the passage carefully and choose the correct option.

In tropical countries, certain crops are grown ____**79**____ the year. These countries have sufficient rainfall for the crops. They also have plenty of sunshine what ripens the crops. More food than is ____**80**____ can be grown in these places. But there are other countries in the world where it is difficult to grow crops.

79. a) Along   b) Over
      c) Through out   d) Across

80. a) Cooked   b) Required
      c) Planted   d) Used

GENERAL AWARENESS

81. The 9th -century tripartite power struggle was among which of the following?
   a) Cholas, Rastrakutas and Yadavas,
   b) Rashtrakuta, Palla and Pratihara
   c) Cholas, Pandyas and Chalukyas
   d) Chalukyas, Pallavas and Yadavas

82. Which among the following is not correct?

	Capital	Kingdom
A	Pandyas	Madurai
B	Cheras	Kerala
C	Videha	Janakpuri
D	Gahadwal	Manyakheta

83. Which Bhakti saint preached the concept of Vishishtadvaita?
   a) Sankara   b) Ramanuja
   c) Madhava   d) Nimbarka

84. Who among the following leader made the famous 'Objectives Resolution', in the Constituent Assembly?
   a) Vallabhbhai Patel
   b) C. Rajagopalachari
   c) Jawaharlal Nehru
   d) Dr. John Mathai

85. The representatives of the state in the Rajya sabha are elected by which one of the following?
   a) Chief minister of the state
   b) Elected members of the state legislative assembly
   c) Governor
   d) President

86. The number of representatives of the Rajya sabha from states and union territories are among which one of the following?
   a) 238   b) 212
   c) 200   d) 220

87. Which one of the following article deals with the Governor of States?
   a) Article 167   b) Article 165
   c) Article 150   d) Article 153

88. By which Proclamation of emergency under article 352 is issued?
   a) Prime minister   b) Defence minister
   c) Home minister   d) President

89. Rainfall occurs during winter in north-western part of India due to
   a) Cyclonic depression
   b) Southwest monsoon
   c) Retreating monsoon
   d) Western disturbances

90. Which form the highest mountain range in the world, extending 2,500 km over northern India .
   a) Himadri,   b) Shivaliks
   c) Himachal   d) None of these

90. Which of the following factor is characterises by the cold weather season in India?
   a) Warm days and warm nights
   b) Warm days and cold nights
   c) Cool days and cold nights
   d) Cold days and warm nights

91. The fresh water lake "Wular lake" is located in which state?
   a) Rajasthan   b) Uttar Pradesh
   c) Punjab   d) Jammu and Kashmir

92. Match List-l (Lake) with List-II (State) and select the correct answer using the codes given below the lists:

List-I		List-II	
	Lake		State
1	Chilka	A	Andhra Pradesh
2	Kolleru	B	Rajasthan
3	Sambhar	C	Orissa
4	Vembanad	D	Kerala

Codes:

	A	B	C	D

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

94. If a sound travels from air to water, the quantity that remain unchanged is
a) Frequency   b) Amplitude
c) Wavelength   d) Velocity

95. The basic reason for the extraordinary sparkle of suitably cut diamond is that
a) It has a very high refractive index
b) It has a very high transparency
c) It has well defined cleavage planes
d) It is very hard

96. When the parent organism splits to form two new organisms, it is called:
a) Budding   b) Spore formation
c) Binary fission   d) Multiple fission

97. The process of getting back a full organism from its body part is called:
a) Spore formation   b) Budding
c) Regeneration   d) Fragmentation

98. The death anniversary of which national leader was observed as the Martyrs' Day on January 30 in India?
a) Jawaharlal Nehru   b) Mahatma Gandhi
c) Bhagat Singh
d) Sardar Vallabhbhai Patel

99. The Armed Forces of which country participated In the Republic Day Parade of India in the year 2021?
a) Nepal   b) Bangladesh
c) United Kingdom   d) Bhutan

100. Which organisation releases the 'World Economic Situation and Prospects 2021'?
a) World Bank
b) IMF
c) Asian Development Bank
d) United Nations

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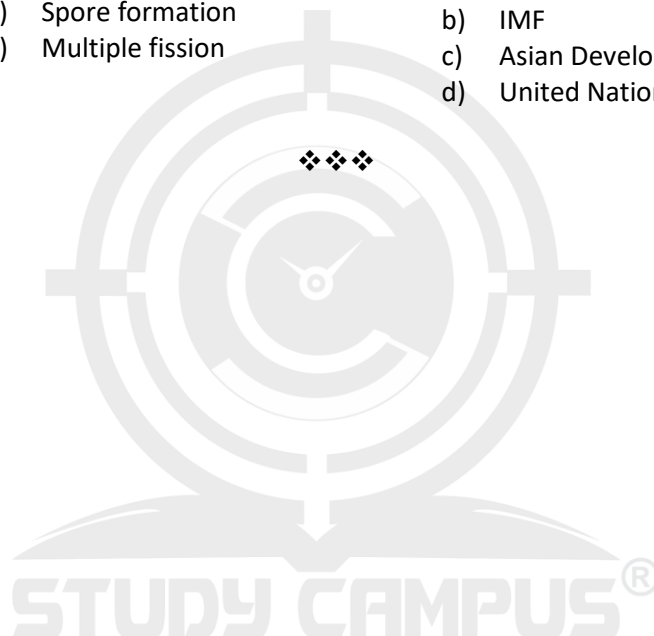
ANSWER KEY

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