



STUDY CAMPUS

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AFCAT - 1 - 2012

SET-6

100/A

Instructions for candidates

TIME ALLOTTED: 2 Hrs

1. Total No. of Questions-100. Each Question is of three marks.
2. One mark will be deducted for every wrong answer.
3. Do not write or mark on the Question Paper.
4. Question Paper to be returned before leaving the Exam Hall.

Read the following passage carefully and answer the questions given below:-

The development and widespread use of computer technology and the internet have transformed how we communicate, how business is conducted, how information is dispersed, and how society is organised. Prior to 1980, in-depth information about any one subject matter was attained through laborious research involving countless visits to libraries and via repeated interviews with persons of known reputation and reputable expertise. Now, a great deal of information is available at the click of a mouse button, all attainable from within the confines of one's own home or from the use of a computer in an office. Previous labour-intensive support jobs, such as loading and unpacking of trucks, luggage handling at airports, and food manufacturing, once performed by a large middle-class workforce, are now performed routinely by robots which are monitored by computer-controlled systems. Our lives have been simplified but these benefits which have been ushered in by the technology revolution have had an adverse effect on the core of our interpersonal-relationships. Mere communication is no longer via postal mail or face-to-face contact, but rather via electronic email, personal internet message boards and by virtue of hand-held personal electronic assistants. Although computer technology has brought us to within a mouse-click of any sought-after piece of information, this technology boom has sequestered us to the confines of our computer desks and homes and has removed us away from those traditional settings where personal and communication skills are developed.

- Q1. The author's attitude the advent of computer technology can be best summarised as
- (a) Optimistic and thankful
 - (b) Appreciative but reserved
 - (c) Candid and reverent.
 - (d) Understanding and obsessive
- Q2. The author would agree with which of the following statements?
- (a) The advent of computer technology has decreased access to libraries
 - (b) Because of advancements in robotics, labour-intensive jobs are more plentiful
 - (c) Although heralded as a great leap forward, the widespread use of computer technology is not without its setbacks
 - (d) Of all the benefits ushered in by the use the internet, electronic email is the most beneficial
- Q3. The author's primary purpose in writing this passage is most likely which of the following?
- (a) To downplay the need for the internet
 - (b) To explain how robotics and the internet have had both a positive and negative influence on how we live
 - (c) To pave way for the next great technology revolution
 - (d) To showcase the wonders of recent technology advancements

In each of the following choose the word most similar in meaning to the word given in capitals.

- Q4. OSMOSIS
- (a) Gradual acceptance
 - (b) Slow recovery
 - (c) Abrupt ending
 - (d) Strength
- Q5. OSTRACISE
- (a) Take away
 - (b) Cut off
 - (c) Include
 - (d) Expedite

- Q6. ALACRITY
 (a) Hesitatingly (b) Eagerness (c) Unwillingly (d) Laziness

In each of the following choose the word most nearly opposite in meaning to the word given in capitals.

- Q7. PROFUSION
 (a) Travesty (b) Validity (c) Scarcity (d) Agitated
- Q8. ESCHEW
 (a) Vicious (b) Invite (c) Use (d) Emanate
- Q9. ABSTAIN
 (a) Refuse (b) Oppose (c) Run away (d) Permit
- Q10. INSOLENT
 (a) Affable (b) Spotted (c) Foolish (d) Mature

In each of the following questions, find out which part has an error.

- Q11. If you will (a) follow my instructions (b) you will get (c) a suitable reward for this (d).
- Q12. Harshad, along with (a) his brother (b) Ashwani and six senior officials (c) were arrested(d).
- Q13. He received timely support (a) from his elder brother (b) who is working abroad (c) for the last six years (d).
- Q14. One of the drawbacks (a) of modern education are (b) that it does not encourage original thinking (c) No Error (d)
- Q15. Morphine and other (a) narcotic drugs are valuable (b) medically, if misused (c) it can cause irreparable damage (d).

Pick up the most effective word from the given words to fill in the blanks to make the sentence meaningfully complete.

- Q16. His book was marked by many _____ remarks which made us forget its main theme.
 (a) Irrelevant (b) Objective (c) Slanted (d) Digressive
- Q17. Some people have the capacity for learning foreign languages but they have no _____ to speak.
 (a) Interest (b) Ability (c) Fondness (d) Inclination
- Q18. The dispute among the parties became so _____ that there was every likelihood of a free exchange of blows.
 (a) Complicated (b) Acrimonious (c) Bellicose (d) Aggressive
- Q19. The judge decided to resign when he was _____ for promotion to Chief Justice.
 (a) Passed by (b) Passed out (c) Passed off (d) Passed over
- Q20. Questions will be answered by a _____ of experts.
 (a) Staff (b) Panel (c) Bunch (d) Band
- Q21. Who among the following had discovered the Bramhi Script in 1838?
 (a) Sir William Jones (b) Dr. Rajendra Lal Mitra
 (c) Dr. Bhaw Dagi (d) Jones Prinsep
- Q22. Who was known as father of administration in medieval India?
 (a) Akbar (b) Sher Shah Suri (c) Humayun (d) Aurangzeb
- Q23. Brahma Samaj was founded by
 (a) Raja Rammohan Roy (b) Jawaharlal Nehru
 (c) William Carey (d) Jonathan Duncan

Continued...3

Q24. Who discharges the function of the President when vacancy occur in the office of the President & Vice President simultaneously, owing to removal, death, resignation of the incumbent or otherwise?

- (a) Chief Justice of High Court (b) Chief Justice of India
(c) Speaker of Lok Sabha (d) Chairman of Rajya Sabha

Q25. With which sport is Lewis Hamilton associated?

- (a) Golf (b) Hockey (c) Billiards (d) F-1

Q26. From which country does the top seeded Tennis player Rafael Nadal hail from?

- (a) France (b) Germany (c) Spain (d) Russia

Q27. Which Indian Boxer won the gold medal in 60 Kg category in Asian games and became the youngest to win a boxing gold for India?

- (a) Vijendra Singh (b) Vikas Krishan (c) Ronjan Sodhi (d) Somdev

Q28. In 2010 Leander Paes in partnership with Cara Black won the mixed doubles title of

- (a) Australian Open Tennis Championship (b) Wimbledon Open Tennis Championship
(c) Both the above (d) None of the above

Q29. Term 'Prime Vertical' in astronomy is defined as

- (a) The Vertical circle which passes through the east and west point of the horizon and is at right angles to the meridian of the place.
(b) The Vertical circle which passes through the north and south point of the horizon and is at right angles to the meridian of the place.
(c) The Vertical circle which passes through the east and west point of the horizon and is parallel to the meridian of the place.
(d) The Vertical circle which passes through the north and south point of the horizon and is parallel to the meridian of the place.

Q30. MNREGA stands for

- (a) Mahatma Gandhi National Revenue Engagement Guarantee Association
(b) Maharaja National Revenue Employment Guarantee Act
(c) Mahanagar National Rural Employment Guarantee Act
(d) Mahatma Gandhi National Rural Employment Guarantee Act

Q31. River Jhelum emerges from

- (a) Northern slopes of the Kailash range (b) Spring at Verinarg
(c) Rakas Lake (d) Amarkantak plateau

Q32. Haematite ores is the ore of which metal?

- (a) Iron (b) Aluminium (c) Zink- (d) Cobalt

Q33. Green revolution relates to which of the following?

- (a) Self-dependence in foodgrains production
(b) Self-dependence in milk production
(c) Self-dependence in petroleum crude oil production
(d) None of the above

Q34. Nuclear Submarine Akula has been handed over to India recently by

- (a) France (b) Germany (c) USA (d) Russia

Q35. Who is the author of book 'The Fragrance of Forgotten Years'?

- (a) David Omand (b) Bilkees Latif (c) Pranab Bardhan (d) Jagat S. Mehta

Q36. Vertebrates have two endocrine glands associated with the brain, namely

- (a) Thyroid, Thymus (b) Pituitary, Pancreas
(c) Pituitary, Pineal (d) Pancreas, Pineal

Continued... 4

- Q37. The layer common to two adjacent plant cells called Middle Lamella is composed of
 (a) Calcium Phosphate (b) Calcium Sulphate
 (c) Calcium Carbonate (d) Calcium Pectate
- Q38. With the increase of the effective nuclear charge, the size of the atom or ion
 (a) Increases (b) Decreases
 (c) Remain the same, since it has no bearing on size
 (d) It will depend on period to period and group to group
- Q39. On which of the following statements, is the kinetic theory of matter base?
 (a) Matter is made up of molecules (b) Molecules are in rapid motion
 (c) Molecules experience forces of attraction between one another
 (d) All of the above
- Q40. When heated with chloroform, secondary amines and tertiary amines
 (a) Gives isocyanides (b) Gives cyanides
 (c) Do not give isocyanides (d) Both (a) and (b)
- Q41. The number whose square is equal to the difference of the squares of 40 and 32 is
 (a) 45.09 (b) 24 (c) 25 (d) 28
- Q42. 15 buckets of water fill a tank when the capacity of each bucket is 7 litres. How many buckets will be needed to fill the same tank, if the capacity of the bucket is 5 litres?
 (a) 12 (b) 24 (c) 21 (d) 30
- Q43. A vessel, full of water, weighs 27.5 Kg. when the vessel is $\frac{1}{4}$ full, it weighs 12.26 kg. Find the weight of empty vessel?
 (a) 7.18 Kg (b) 6.54 Kg (c) 2.75 kg (d) 2.5 kg
- Q44. If $a+b = 10$ and $ab = 21$, find the value of a^3+b^3
 (a) 370 (b) 210 (c) 730 (d) 598
- Q45. If $\frac{a}{a+b} = \frac{17}{23}$, what is $\frac{a+b}{a-b}$ equal to?
 (a) $\frac{13}{7}$ (b) $\frac{23}{11}$ (c) $\frac{14}{5}$ (d) $\frac{25}{9}$
- Q46. $\frac{(598+479)^2 - (598-479)^2}{(598 \times 479)}$ = ?
 (a) 2 (b) 6 (c) 4 (d) 8
- Q47. A man's average monthly expenditure for the first four months of the year was ₹225.25. For the next five months, the average monthly expenditure was ₹20.75 more than what it was during the first four months. If the person spent ₹ 700 in all during the remaining three months of the year, find what percentage of his annual income of ₹ 3500 he saved in the year?
 (a) 10% (b) 15% (c) 19.11% (d) 25%
- Q48. The ratio of the present age of P and Q is 2:3. The ratio of their age after 18 years will be 4:5. What is the present age of Q?
 (a) 26 years (b) 25 years (c) 24 years (d) 27 years
- Q49. The mean temperature of Monday to Wednesday was 37°C and of Tuesday to Thursday was 34°C . If the temperature on Thursday was $\frac{4}{5}$ th that of Monday, the temperature on Thursday was
 (a) 36.5°C (b) 36°C (c) 35.5°C (d) 34°C
- Q50. Srinivasan invests two equal amounts in two banks giving 10% and 12% rate of interest respectively. At the end of year the interest earned is ₹1650. Find the sum invested in each.
 (a) ₹ 8500 (b) ₹ 15000 (c) ₹ 7500 (d) ₹ 17,000

Continued...5

- Q51. The simple interest on a sum of money is $\frac{1}{9}$ of the sum. The number of years is numerically equal to the rate percent per annum. The rate percent per annum is
 (a) 3.33 (b) 5 (c) 6.66 (d) 10
- Q52. A sum of ₹ 10,000 is lent partly at 8% and the remaining at 10% per annum. If the yearly interest on the average is 9.2%, the money lent at 10% is
 (a) ₹ 6000 (b) ₹ 5500 (c) ₹ 5000 (d) ₹ 4500
- Q53. In an election between two candidates, 60% of the voters cast their votes, out of which 4% of the votes were declared invalid. A candidate got 7344 votes which were 75% of the total valid votes. Find the total number of votes enrolled in that election.
 (a) 1700 (b) 17590 (c) 17000 (d) 7344
- Q54. If the price of kerosene be raised by 9%, find how much percent a house holder must reduce his consumption of kerosene so that not to increase his expenditure
 (a) 9% (b) 8.25% (c) 9% (d) 9.25%
- Q55. Sixty five pupils from a school entered for an examination and 80% of them passed. Another school entered 10 more pupils than the first school and four more pupils passed. The % of pass in the second school was
 (a) 75% (b) 84% (c) 72% (d) 74.6%
- Q56. A jar contains black and white marbles. If there are ten marbles in the jar, then which of the following could not be the ratio of black to white marbles?
 (a) 9:1 (b) 7:3 (c) 1:10 (d) 1:4
- Q57. A sum of money is to be distributed among P, Q and R in the ratio of 6:19:7. If R gives ₹ 200 from his share to Q, the ratio of P, Q and R becomes 3:10:3, what is the total sum?
 (a) ₹ 3200 (b) ₹ 12800 (c) ₹ 6400 (d) data inadequate
- Q58. In what ratio should tea worth Rs 10 per kg be mixed with tea worth ₹ 14 per kg so that the average price of the mixture may be ₹ 11 per kg?
 (a) 2:1 (b) 3:1 (c) 3:2 (d) 4:3
- Q59. Calculate the amount on ₹ 1250 for 2 years at 4% per annum, compounded yearly.
 (a) ₹ 676 (b) ₹ 1352 (c) ₹ 1778 (d) ₹ 255
- Q60. A sum of Rs. 3200 is lent out into two parts, one at 6% and another at 4%. If the total annual income is ₹ 176, find the money lent at 6%.
 (a) ₹ 2400 (b) ₹ 800 (c) ₹ 1600 (d) ₹ 3200

Direction: In the following questions the words given bear a certain relationship. Find out from the choices the words with the same relationship.

- Q61. Surgeon : Scalpel
 (a) Musician : Instrument (b) Sculptor : Chisel
 (c) Carpenter : Cabinet (d) Baker : Oven
- Q62. Creche : Infants
 (a) School : Pupils (b) Deck : Sailors
 (c) Cottage : Guests (d) Aircraft : Crew
- Q63. Pesticide : Plant
 (a) Injection : Disease (b) Teacher : Student
 (c) Medicine : Cure (d) Vaccination : Body
- Q64. Stare : Glance
 (a) Gulp : Sip (b) Story : tell
 (c) Hunt : Stalk (d) Step : Walk

Continued...6

- Q65. Fish : Aquarium
 (a) Student : Hostel (b) Bird : Forest
 (c) Goods : Consignment (d) Bee : Apiary
- Q66. Ecstasy : Pleasure
 (a) Hatred : Affection (b) Rage : Anger
 (c) Joy : Grief (d) Mumble : Speak
- Q67. Necromancy : Ghosts
 (a) Romance : Stories (b) Magic : Amulets
 (c) Alchemy : Gold (d) Sorcery : Spirit
- Q68. Coin : Mint
 (a) Grain : Field (b) Hay : Stable
 (c) Wine : Brewery (d) Book : Publisher
- Q69. Oak : Coniferous
 (a) Chimpanzee : Ape (b) Animals : Carnivore
 (c) Fish : Sea (d) Tree : Grove
- Q70. Onam : Kerala
 (a) Christmas : Christians (b) Bhangra : Punjab
 (c) Kathak : Uttar Pradesh (d) Bihu : Assam

Direction: In each of the following questions, a group of three inter related words is given. Choose a word from the given alternatives, that belongs to the same group.

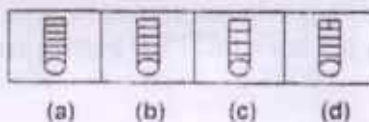
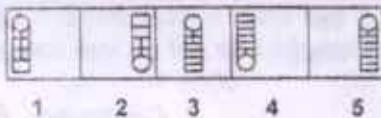
- Q71. Calendar : Dates : : Dictionary : ?
 (a) Vocabulary (b) Language (c) Words (d) Book
- Q72. Heed : Neglect : : Pacify : ?
 (a) Incite (b) Allay (c) War (d) Victory
- Q73. Malaria : Disease : : Sword : ?
 (a) Wound (b) Spear (c) Weapon (d) Rifle
- Q74. Eye : Wink : : Heart : ?
 (a) Move (b) Throb (c) Pump (d) Quiver
- Q75. Earth : Sun : : Moon : ?
 (a) Orbit (b) Sky (c) Star (d) Earth

Direction: Choose the word which is least like the other words in the group.

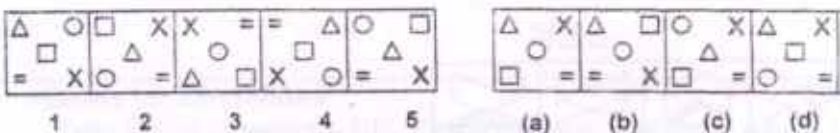
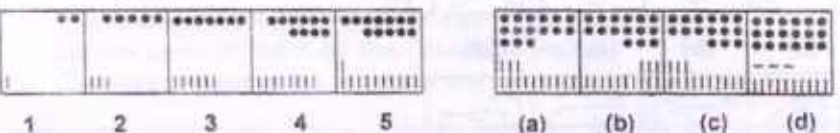
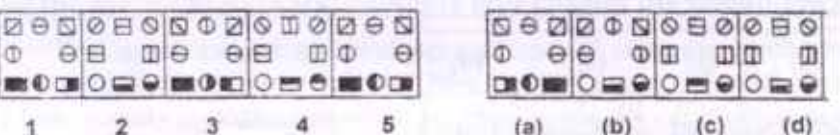
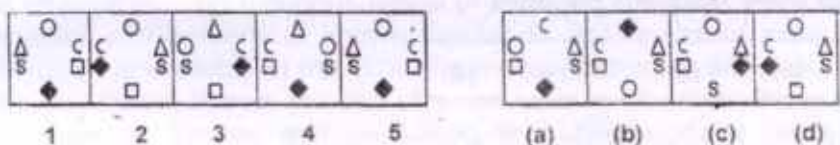
- Q76. (a) Rose (b) Lotus (c) Marigold (d) Tulip
- Q77. (a) Book (b) Sharpener (c) Pencil (d) Paper
- Q78. (a) Copper (b) Tin (c) Brass (d) Zinc
- Q79. (a) Kiwi (b) Eagle (c) Emu (d) Penguin
- Q80. (a) Raniganj (b) Jharia (c) Bokaro (d) Baroda

Direction: There are two sets of figures namely the Problem figures containing five figures 1, 2, 3, 4, 5 and Answer figures (a), (b), (c), (d). Select one figure from the Answer figures which will continue the same series as given in the Problem figures.

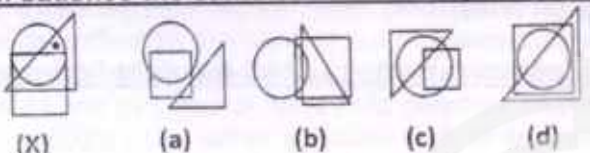
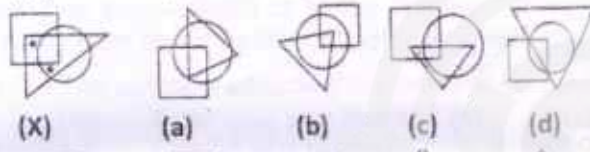
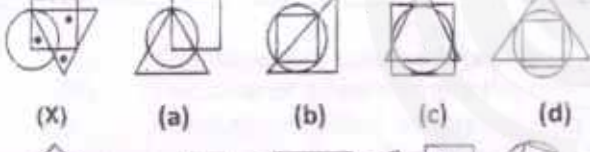
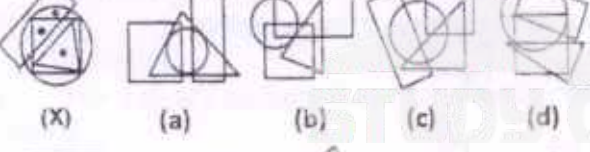
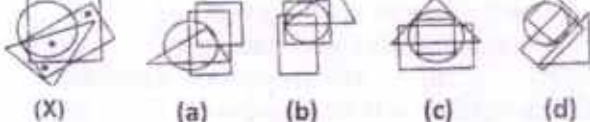
81.



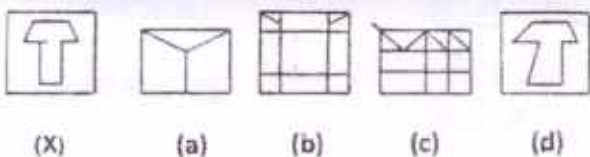
Continued... 7

82.  (a) (b) (c) (d)
83.  (a) (b) (c) (d)
84.  (a) (b) (c) (d)
85.  (a) (b) (c) (d)

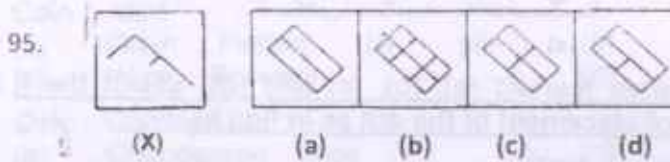
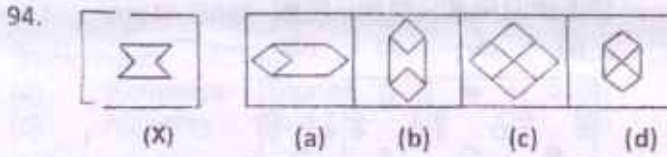
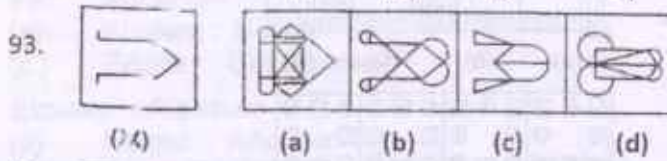
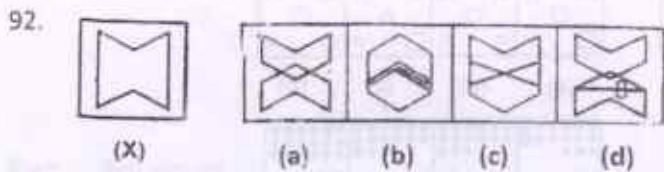
Direction: From amongst the figures marked (a), (b), (c) and (d), select the figure which satisfies the same conditions of placement of the dot as in fig (X).

86.  (a) (b) (c) (d)
87.  (a) (b) (c) (d)
88.  (a) (b) (c) (d)
89.  (a) (b) (c) (d)
90.  (a) (b) (c) (d)

Direction: The original figure is embedded or hidden in one of the answer figures (a), (b), (c) & (d). Select the alternative that carries the correct figure which clearly shows the embedded portion of the original figures.

91.  (a) (b) (c) (d)

Continued...8



Direction: Find out from the given option (a), (b), (c) or (d) the right figure to fit in the missing figure.

