

AFCAT 1 2015 QUESTION PAPER

INSTRUCTIONS:

TIME LIMIT : 2 HOURS

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.

DIRECTIONS (Qs. 1-4) : Which word or words explains the meaning of the following idioms :

1. In a jiffy
(a) Outstanding (b) Suddenly
(c) In a fix (d) Appropriate
2. Upto the hilt
(a) Completely (b) upto the mark
(c) Upto the final decision (d) None of these
3. Man of Letters
(a) Who writes too many letters
(b) An important person
(c) A politician
(d) A literary person
4. Sangfroid
(a) Composure (b) Go on leave
(c) Changed suddenly (d) Make an attempt

DIRECTIONS (Qs. 5-10) : Select the most appropriate word from the options against each number :

As home entertainment, television is rapidly becoming more (5) than any other form. A news broadcast becomes more immediate when people (6) actually see the scene (7) question and the movement of the figures. Films could be viewed in the (8) of the home and a variety of shows are also available. One of the advantages of travel programmes is the (9) of faraway places which many viewers would not (10) see.

5. (a) interesting (b) popular
(c) powerful (d) purposeful
6. (a) could (b) would
(c) might (d) shall
7. (a) of (b) with
(c) as (d) in
8. (a) surroundings (b) assistance
(c) comfort (d) privilege
9. (a) glimpses (b) image
(c) portrait (d) picture
10. (a) possible (b) rather
(c) else (d) otherwise

DIRECTIONS (Qs. 11-14) : Choose the word which is nearest in meaning to the given word :

11. Sporadic
(a) Epidemic (b) Whirling
(c) Occasional (d) Stagnant

12. Genesis
(a) Style (b) Beginning
(c) Movement (d) Relevant
13. Intransigent
(a) Authoritative (b) Impersonal
(c) Strenuous (d) Unbending
14. Intimidate
(a) Mislead (b) Misplace
(c) Frighten (d) Demoralise

DIRECTIONS (Qs. 15-18) : Choose the word which is nearly opposite in meaning of the given word:

15. Clemency
(a) Corporal (b) Intolerance
(c) Compromise (d) Sensibility
16. Cajole
(a) Nestle (b) Secede
(c) Bully (d) Moisten
17. Malevolent
(a) Kindly (b) Vacuous
(c) Ambivalent (d) Primitive
18. Purgatory
(a) Reward (b) Celestial
(c) Flawless (d) Proximity

DIRECTIONS (Qs. 19-21) : Read the following passage carefully and answer the questions given below it :

In spring, polar bear mothers emerge from dens with three months old cubs. The mother bear has fasted for as long as eight months but that does not stop the young from demanding full access to her remaining reserves. If there are triplets, the most persistent stands to gain an extra meal at the expense of others. The smallest of the cubs forfeits many meals to stronger siblings. Females are protective of their cubs but tend to ignore family rivalry over food. In 21 years of photographing polar bears. I have only once seen the smallest of triplets survive till autumn.

19. With reference to the passage, the following assumptions have been made :

- I. Polar bears fast as long as eight months due to non availability of prey.
- II. Polar bears always give birth to triplets.

Which of the assumptions given above is/are true?

- (a) I only (b) II only
(c) Both I and II (d) Neither I nor II

20. Female polar bears give birth during
 (a) Spring (b) Summer
 (c) Autumn (d) Winter
21. Mother bear
 (a) Takes sides over cubs
 (b) Lets the cubs fend for themselves
 (c) Feeds only their favourites
 (d) Sees that all cubs get an equal share

DIRECTIONS (Qs. 22-25) : Choose the word that best defines the given phrases :

22. A Curtain Lecture
 (a) To speak plainly
 (b) Vulgar ideas
 (c) Private scolding of a husband by his wife
 (d) Hate others
23. Square pegs in round holes
 (a) A genuinely helpful person
 (b) A clever person
 (c) People in the wrong jobs
 (d) To be perplexed
24. In weal and woe
 (a) By hook or crook
 (b) During illness
 (c) In prosperity and adversity
 (d) During the operation
25. Globetrotters
 (a) People against global philosophy
 (b) People indulging in treachery
 (c) Intelligent minds
 (d) Travellers around the world
32. The speed of a boat in still water is 10 Kmph. If it can travel 26 Km downstream and 14 Km upstream in the same time, the speed of the stream is
 (a) 2 Kmph (b) 2.5 Kmph
 (c) 3 Kmph (d) 4 Kmph
33. If a sum becomes double in 16 years, how many times will it be in 8 years?
 (a) $1\frac{1}{2}$ times (b) $1\frac{1}{3}$ times
 (c) $1\frac{3}{4}$ items (d) $1\frac{1}{4}$ times
34. In how many years will a sum of Rs 800 at 10% per annum compounded semi-annually become Rs 926.10?
 (a) $1\frac{1}{3}$ (b) $1\frac{1}{2}$
 (c) $2\frac{1}{3}$ (d) $2\frac{1}{2}$
35. A sell 2 TV sets, one at a loss of 15% and another at a profit of 15%. Find the loss/gain percentage in the overall transaction?
 (a) 2.25% (b) 3%
 (c) 4% (d) No profit, no loss
36. A man travelled from a point A to B at the rate of 25 Kmph and walked back at the rate of 4 Kmph. If the whole journey took 5 hrs 48 minutes, the distance between A and B is
 (a) 30km (b) 24km
 (c) 20km (d) 51.6km

DIRECTIONS (Qs. 26-29) : Choose the correctly spelt word :

26. (a) Konnoisseur (b) Conoisneur
 (c) Connoisseur (d) Konoisseur
27. (a) Munifisnt (b) Muneficnt
 (c) Munificent (d) Munificient
28. (a) Equanmity (b) Equannimity
 (c) Equanimmisty (d) Equinimity
29. (a) Vetarinary (b) Veterinary
 (c) Vetennary (d) Vetniary
37. A train travelling at a uniform speed clears a platform 200 m long in 10 seconds and passes a telegraph post in 5 seconds. The speed of the train is
 (a) 36 km/h (b) 39 km/h
 (c) 72 km/h (d) 78 km/h
38. The price of sugar increases by 20% due to the festive season. by what percentage should a family reduce the consumption of sugar so that there is no change in the expenditure ?
 (a) 20% (b) $18\frac{1}{3}\%$
 (c) $16\frac{2}{3}\%$ (d) $16\frac{1}{3}\%$

DIRECTIONS (Qs. 30-65) : Choose the most appropriate answer :

30. A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?
 (a) 12 days (b) 15 days
 (c) 16 days (d) 18 days
31. A man can row $9\frac{1}{3}$ Kmph in still water and finds that it takes him thrice as much time to row up than as to row down the same distance in the river. The speed of the current is
 (a) $3\frac{1}{3}$ Kmph (b) $3\frac{1}{9}$ Kmph
 (c) $4\frac{2}{3}$ Kmph (d) $4\frac{1}{3}$ Kmph
39. A's salary is 20% lower than B's salary, which is 15% lower than C's salary. By how much percent is C's salary more than A's salary?
 (a) 44.05% (b) 45.05%
 (c) 46.05% (d) 47.05%
40. The average weight of 5 men is increased by 2 Kg when one of the men whose weight is 60 Kg is replaced by a new man. The weight of the new man is
 (a) 50 Kg (b) 65 Kg
 (c) 68 Kg (d) 70 Kg

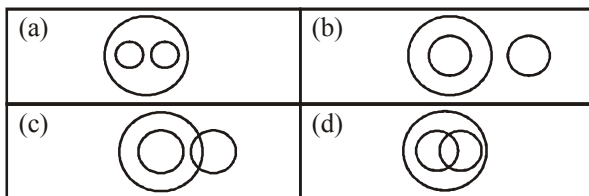
41. A and B can do a piece of work in 18 days; B and C can do it in 24 days, A and C can do it in 36 days. In how many days B alone can finish the work?
 (a) 48 days (b) 45 days
 (c) $28\frac{4}{5}$ days (d) 144 days
42. The opposition part status is accorded to a political party in the Lok Sabha only if it captures at least
 (a) 5% Seats (b) 10% Seats
 (c) 15% Seats (d) 20% Seats
43. Who amongst the following is the author of the book 'A Bend in the River'?
 (a) Chetan Bhagat (b) VS Naipaul
 (c) Kiran Desai (d) Anita Desai
44. 'Long Walk to Freedom' is a book written by
 (a) Sonia Gandhi (b) LK Advani
 (c) Nelson Mandela (d) Benazir Bhutto
45. Which sports personality has been awarded the honorary rank of Group Captain by the IAF?
 (a) Kapil Dev (b) Sania Mirza
 (c) Saina Nehwal (d) Sachin Tendulkar
46. Which country among the following has been declared Ebola-free by WHO?
 (a) Sierra Leone (b) Liberia
 (c) Nigeria (d) Guinea
47. How many Gold medals did India win in the Incheon Asian Games held in Oct 2014?
 (a) 10 (b) 11
 (c) 12 (d) 8
48. Who has been appointed as the new Finance Secretary of India?
 (a) Arvind Mayaram (b) Rajiv Mehrishi
 (c) Kaushik Basu (d) Dinesh Gupta
49. Which among the following is India's first long range subsonic cruise missile?
 (a) Agni II (b) Prithvi
 (c) Dhanush (d) Nirbhay
50. The branch of science that studies cells is called
 (a) Cytology (b) Entomology
 (c) Homoplasic (d) Hormonolgy
51. How many Vice Presidents are elected at the start of its each regular session of UN General Assembly?
 (a) Nine (b) Fifteen
 (c) Two (d) Twenty one
52. The highest civilian award of India 'Bharat Ratna' has been awarded to only two foreigners so far. One of them is Nelson Mandela. The other is
 (a) Marshal Tito
 (b) Mikhail Gorbachev
 (c) Khan Abdul Ghaffar Khan
 (d) Abdul Wali Khan
53. Sir CV Raman was awarded Nobel Prize for his work connected with which of the following phenomenon of radiation?
 (a) Scattering (b) Diffraction
 (c) Interference (d) Polarisation
54. In which city is headquarters of Asian Development Bank located?
 (a) Manila (b) Singapore
 (c) Bangkok (d) Jakarta
55. K-15 missile is
 (a) Submarine launched Ballistic Missile (SLBM)
 (b) Inter Continental Ballistic Missile (ICBM)
 (c) Medium Range Ballistic Missile (MRBM)
 (d) Short Range Ballistic Missile (SRBM)
56. India agreed to UN Chief Ban ki-Moon's offer to remain as a member of the advisory board of one of the following recently.
 (a) UNCCT (b) UNICEF
 (c) UNEP (d) UNCTAD
57. Kaziranga National Park is famous for
 (a) One-horned Rhinos
 (b) Tigers
 (c) Swamp Dears (Barasingha)
 (d) Elephants
58. Who was the first Indian to win an individual medal in Olympics?
 (a) Milkha Singh (b) PT Usha
 (c) Karnam Malleshwari (d) KD Jadhav
59. Who among the following was the Congress President at Madras Session of 1927 when it boycotted the Simon Commission?
 (a) Maulana Abul Kalam Azad
 (b) MA Ansari
 (c) Lala Lajpat Rai
 (d) Subhash Chandra Bose
60. Why did Kalinga prove to be a turning point in the life of Ashoka?
 (a) Ashoka annexed Kalinga
 (b) It was the starting point of the expansion of his empire
 (c) Ashoka became a zealous Buddhist
 (d) It enabled Mauryan Empire to reach its climax.
61. Which of the following wings was not part of the espionage system described by Kautilya?
 (a) Crime Branch (b) Special Branch
 (c) Political Branch (d) None of these
62. Alauddin Khilji did not build
 (a) Siri Fort (b) Tomb of Jalaluddin
 (c) Hauz-i-Alai (d) Jamaat Khana Masjid
63. Which of the following dynasties was ruling over North India at the time of Alexander's invasion?
 (a) Nanda (b) Maurya
 (c) Sunga (d) Kanva
64. Which of the following Intercontinental Ballistic Missiles (ICBMs) is under development in India?
 (a) Agni-I (b) Agni-II
 (c) Agni-IV (d) Agni-VI
65. Who among the following was adjudged as the Most Valuable Player of the 17th Asian Games held at Incheon, South Korea?
 (a) Mary Kom of India
 (b) Kosuke Hagino of Japan
 (c) Ning Zetao of China
 (d) None of these

DIRECTIONS (Qs. 66-70) : In each of the following questions find out the alternative which will replace the question mark.

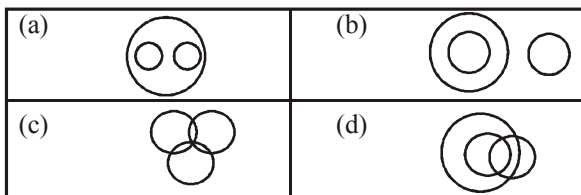
66. East : Orient :: ? : ?
 (a) North : Polar (b) North : Tropic
 (c) South : Capricorn (d) West : Occident
67. Ignominy : Disloyalty :: ? : ?
 (a) Death : Victory (b) Martyr : Man
 (c) Fame : Heroism (d) Destruction : Victory
68. Loath : Coercion :: ? : ?
 (a) Detest : Caressing (b) Irritate : Caressing
 (c) Irate : Antagonism (d) Reluctant : Persuasion
69. Trilogy : Novel :: ? : ?
 (a) Rice : Husk (b) Milk : Cream
 (c) Serial : Episode (d) Gun : Cartridge
70. Wife : Marriage :: ? : ?
 (a) Bank : Money
 (b) Nationality : Citizenship
 (c) Service : Qualification
 (d) Attendance : Register

DIRECTIONS (Qs. 71-75) : Each of these questions given below contains three elements. These elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (a), (b), (c) or (d). You have to indicate the group of elements which correctly fits into the diagrams.

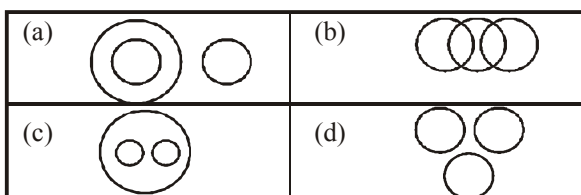
71. Which of the following diagrams indicates the best relation between Doctors, Human Beings and Married People?



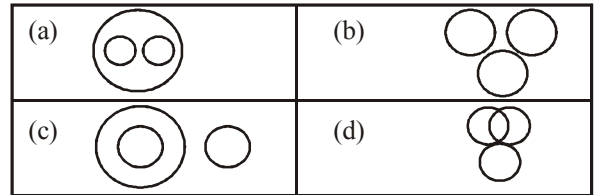
72. Which of the following diagrams indicates the best relation Children, Naughty and Studious?



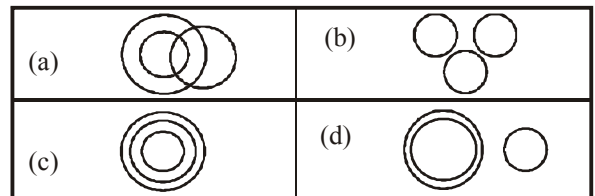
73. Which of the following diagrams indicates the best relation between Thief, Criminal and Police ?



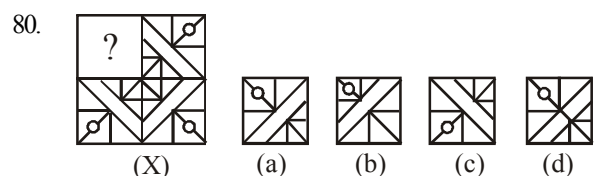
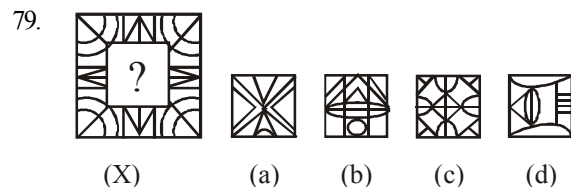
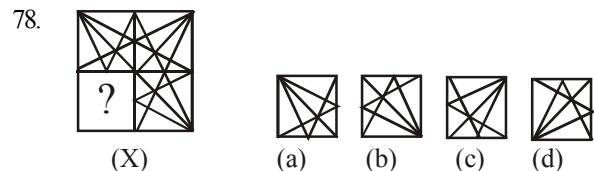
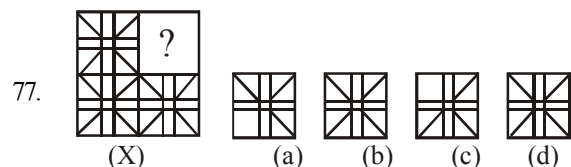
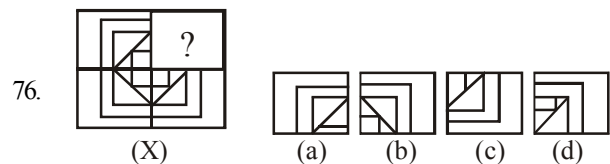
74. Which of the following diagrams indicates the best relation between Man, Worker and Garden?



75. Which of the following diagrams indicates the best relation between Males, Cousins and Nephews?

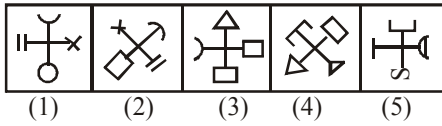


DIRECTIONS (Qs. 76-80) : In each of the following questions, select a figure from amongst the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.

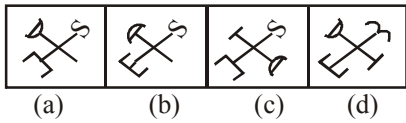


DIRECTIONS (Qs. 81-85) : Each of the following questions consists of five figures marked 1, 2, 3, 4 and 5 called the Problem Figures followed by four other figures marked a, b, c and d called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the Five Problem Figures.

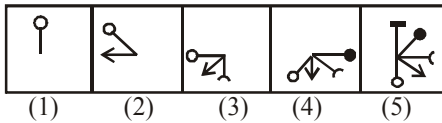
81. **Problem Figures :**



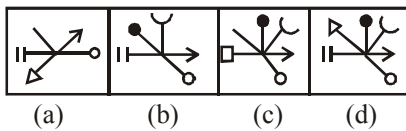
Answer Figures :



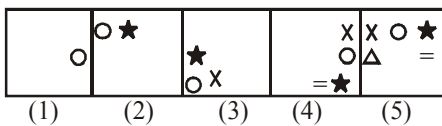
82. **Problem Figures :**



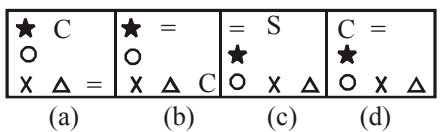
Answer Figures :



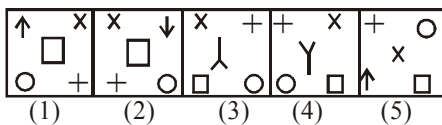
83. **Problem Figures :**



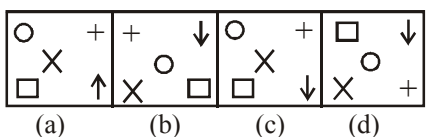
Answer Figures :



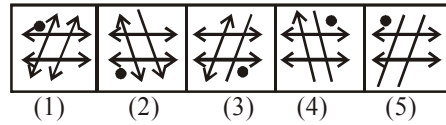
84. **Problem Figures :**



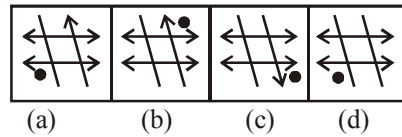
Answer Figures :



85. **Problem Figures:**



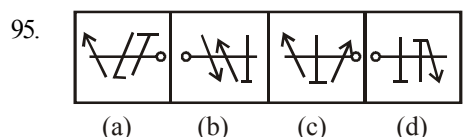
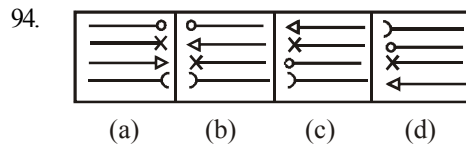
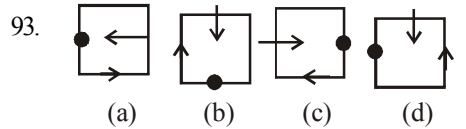
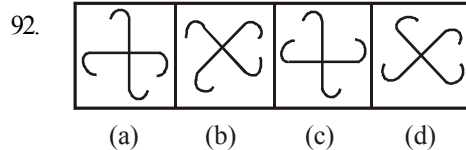
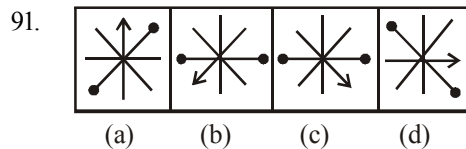
Answer Figures :



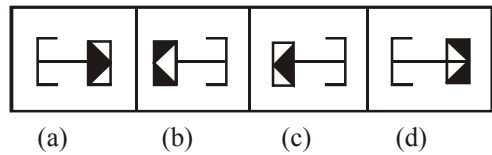
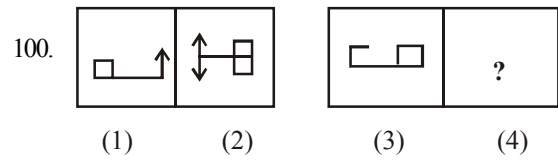
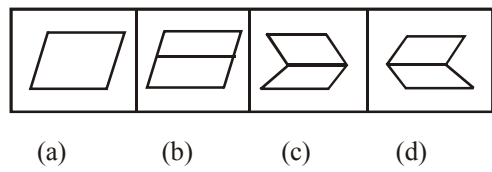
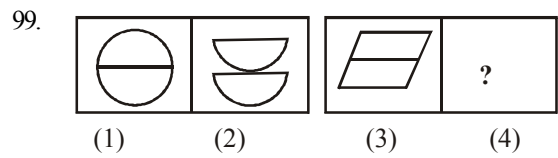
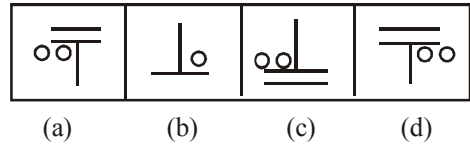
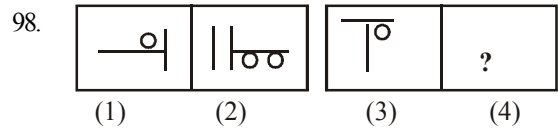
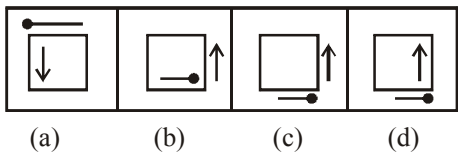
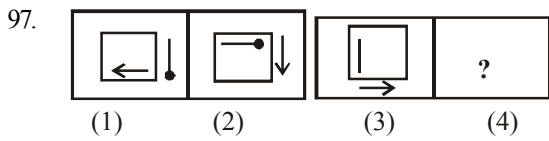
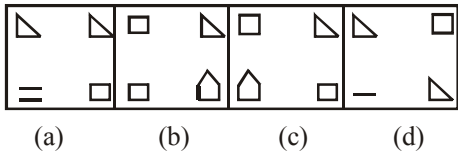
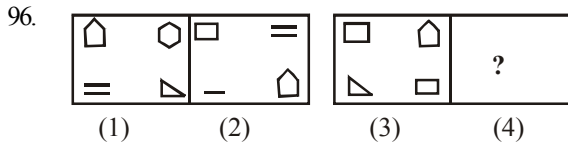
DIRECTIONS (Qs. 86-90) : In each of the following questions, four words have been given out of which three are alike in some manner, while the fourth one is different. Choose the word which is different from the rest.

- 86. (a) Othello (b) King Lear
- (c) Oliver Twist (d) Macbeth
- 87. (a) Nimitz (b) Yamamoto
- (c) Nelson (d) Montgomery
- 88. (a) Blaze (b) Glint
- (c) Simmer (d) Shimmer
- 89. (a) Aravalli hills (b) Shivalik hills
- (c) Mole hills (d) Satpura hills
- 90. (a) Beaver (b) Alpaca
- (c) Walrus (d) Koala

DIRECTIONS (Qs. 91-95) : In each problem, out of the four figures marked (a) (b) (c) and (d) three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.



DIRECTIONS (Qs. 96-100) : Each of the following questions consists of two sets of figures. Figures 1, 2, 3 and 4 constitute the Problem Set while figures a, b, c and d constitute the Answer Set. There is a definite relationship between figures (1) and (2). Establish a similar relationship between figures (3) and (4) by selecting a suitable figure from the Answer set that would replace the question mark (?) in fig. (4).



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

1. (b) Jiffy means-a very short time, a moment which is used in an informal way in English. Ex. I we'll be back in a jiffy. The other options are not appropriate.
2. (a) Upto the hilt means completely.
Ex. The building was mortgaged up to the hilt.
Other options give different meaning.
3. (d) Literary persons are scholars or male authors known as-man of letters. Ex. He wished to fashion for himself a career as a man of letters.
Other options are not correct as they express different meanings.
4. (a) Sangfroid means composure or coolness shown in danger or under trying circumstances.
Ex. Offering the most welcoming stage for the talented, the city with equal sangfroid accepts the misery of millions who fail to flourish. Other options are simply irrelevant so far the meaning is concerned.
5. (b) The word rapidly can match popular, not with other options.
6. (a) Could shows the ability
7. (d) In question' means being discussed or considered ex. On the days in question there were several serious questions.
8. (c) In the comfort of home' defines in the home atmosphere without going out for the purpose of entertainment.
10. (d) Otherwise television this would not have possible.
11. (c) Sporadic means, occuring at irregular intervals or any in a few places. Ex. A sporadic fighting broke out.
12. (b) Genesis is the origin or mode of formation of something. The nearest meaning is beginning.
13. (d) Intransigent defines unwilling or refusing to change one's views or to agree about something. Therefore unbending is the nearest meaning.
14. (c) Intimidate means frighten or overawe someone, in order to make them do what one wants.
15. (b) The word clemency means mercy or lenience. Here intolerance is the nearly opposite meaning.
16. (c) The word cajole means to persuade someone to do something by sustained coaxing or flattery. Bully is the nearly opposite meaning.
17. (a) Malevolent defines, showing a wish to do evil to others. Kindly is the most appropriate opposite.
18. (b) Purgatory means a place or state of suffering inhabited by the souls of sinners who are expiating their sins before going to heaven. Therefore celestial is the right opposite word.
21. (b) The sentence means, Mother Bear never interferes in the food sharing of her cubs.
22. (c) The phrase a curtain Lecture means an instance of a wife reprimanding her husband in private.
23. (c) Square pegs in round holes means a misfit. So, people in the wrong jobs is the correct option.
24. (c) The phrase means good and bad day. E.g., Weal and woe comes in everybody's life. Therefore, in prosperity and adversity is the correct option.
25. (d) Globetrotter is a person who travels widely.
26. (c) Connoisseur is an expert judge in matters of taste. E.g., A connoisseur of music.
27. (c) Munificent in its adjective form means characterised by or displaying great generosity.
28. (a) Equanimity means calmness and composure, especially in a difficult situation.
29. (c) Veterinary : Relating to the diseases, injuries and treatment of farm and domestic animals.
30. (b) Work done by A in 2 days = $\frac{1}{20} \times 2 = \frac{1}{10}$

Work done by A, B and C in one day = $\frac{1}{20} + \frac{1}{30} + \frac{1}{60}$

= $\frac{3+2+1}{60} = \frac{6}{60} = \frac{1}{10}$

Work done in three days (When A is assisted by B and

$$C \text{ on every third day} = \frac{1}{10} + \frac{1}{10} = \frac{2}{10} = \frac{1}{5}$$

Hence required number of days = $5 \times 3 = 15$ days.

31. (c) Distance covered by man = D km
Speed of Man in still water = x kmph

$$\text{Speed of current} = \frac{28}{3} \text{ kmph}$$

According to question,

$$\frac{D}{\frac{28}{3} - x} = 3 \left(\frac{D}{\frac{28}{3} + x} \right)$$

$$\Rightarrow \frac{28}{3} + x = 3 \left(\frac{28}{3} - x \right)$$

$$\Rightarrow 4x = 2 \times \frac{28}{3}$$

$$\Rightarrow x = \frac{14}{3} \text{ or } 4\frac{2}{3} \text{ Kmph}$$

32. (c) Let speed of stream be x Kmph.
Then,

$$\frac{26}{10+x} = \frac{14}{10-x}$$

$$260 - 26x = 140 + 14x$$

$$40x = 120$$

$$x = 3$$

Speed of stream is 3 Kmph.

33. (a) S.I. = $2P - P = P$

$$P = \frac{P \times R \times 16}{100}$$

$$R = \frac{25}{4} \%$$

$$\text{(S.I) For 8 years} = \frac{P \times \frac{25}{4} \times 8}{100} = \frac{P}{2}$$

$$\text{Amount} = P + \frac{P}{2} = \frac{3P}{2}$$

Amount increased by $1\frac{1}{2}$ times.

34. (b) $926.1 = 800 \left(1 + \frac{10}{100} \right)^{2t}$

$$\frac{926.1}{800} = \left(\frac{21}{20} \right)^{2t}$$

$$\left(\frac{21}{20} \right)^3 = \left(\frac{21}{20} \right)^{2t} \Rightarrow t = \frac{3}{2} \text{ years or } 1\frac{1}{2} \text{ years.}$$

35. (d) Let x be the cost price of T.V.

$$\text{loss} = 15\%$$

$$\text{then, S.P.}_1 = x - 15\% \text{ of } x = 0.85x$$

$$\text{Profit} = 15\%$$

$$\text{then, S.P.}_2 = x + 15\% \text{ of } x = 1.15x$$

$$\text{total S.P.} = 0.85x + 1.15x = 2x$$

$$\text{Profit} = 2x - 2x = 0$$

No profit, no loss

36. (c) Let D Km be the distance between A and B.

$$\frac{D}{25} + \frac{D}{4} = 5\frac{48}{60}$$

$$\frac{4D + 25D}{100} = \frac{29}{5}$$

$$\frac{29D}{100} = \frac{29}{5}$$

$$D = 20 \text{ Km}$$

37. (*) Let 'x' be the length of the train.

Let 'S' be the speed of train.

Distance travelled by train to cross the platform = $(x+200)m$

According to question

$$(x+200) = S \times 10 \text{ sec.} \quad \dots(1)$$

Distance travelled by train to cross the telegraph post = xm

According to question

$$x = S \times 5 \text{ sec.} \quad \dots(2)$$

Putting 'x' value in (1) from (2)

$$(5S + 200) = 10S$$

$$200 = 10S - 5S = 5S$$

$$S = 40 \text{ m/s}$$

$$S = \frac{40 \times 18}{\cancel{5}} = 144 \text{ km/hr.}$$

None of the option is matching.

38. (c) Let x and y be the rate of sugar per Kg and quantity of sugar.

$$xy = \left(x + \frac{20}{100} \times x \right) y'$$

$$xy = \frac{6x}{5} y'$$

$$y' = \frac{5}{6} y = y - \frac{y}{6}$$

$$\text{Reduction in consumption} = \frac{100}{6} = 16\frac{2}{3} \%$$

39. (d) A = B - 20% of B = 0.8 B

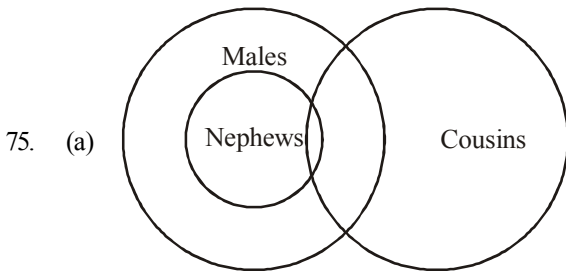
$$B = C - 15\% \text{ of } C = 0.85 C$$

$$A = 0.8 \times 0.85 C = 0.68 C$$

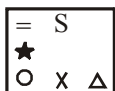
$$\frac{C-A}{A} \times 100 = \frac{C-0.68C}{0.68C} \times 100 = \frac{32}{68} \times 100 = 47.05\%$$

40. (d) Let total weight of 5 men be x kg and weight of new man y kg.
- $$\frac{x - 60y + y}{5} = \frac{x}{5} + 2$$
- $$\Rightarrow \frac{x}{5} - 12 + \frac{y}{5} = \frac{x}{5} + 2$$
- $$\Rightarrow y = 70 \text{ kg}$$
- weight of new man = 70 kg
41. (c) $\frac{1}{A} + \frac{1}{B} = \frac{1}{18}$... (1)
- $$\frac{1}{B} + \frac{1}{C} = \frac{1}{24}$$
- ... (2)
- $$\frac{1}{C} + \frac{1}{A} = \frac{1}{36}$$
- ... (3)
- Adding eqn. (1), (2) and (3)
- $$2\left(\frac{1}{A} + \frac{1}{B} + \frac{1}{C}\right) = \frac{1}{18} + \frac{1}{24} + \frac{1}{36}$$
- $$\frac{1}{A} + \frac{1}{B} + \frac{1}{C} = \frac{1}{16}$$
- ... (4)
- Subtract eqn. (3) from (4)
- $$\frac{1}{B} = \frac{1}{16} - \frac{1}{36} = \frac{5}{144}$$
- B alone can finish work in $\frac{144}{5} = 28\frac{4}{5}$ days
42. (b) A political party is officially accorded the status of an opposition party in Lok Sabha, only if it secures at least 10 percent of the seats.
46. (c) Nigeria is considered free of Ebola transmission by WHO.
47. (b) India won 57 medals (11 gold, 10 silver, 36 bronze).
49. (d) Nirbhay is the first Indian long-range subsonic cruise missile developed by Defence Research & Development Organisation (DRDO). This missile can be launched from multiple platforms like, air, land. Nirbhay missile's flight test was successfully completed in October 2014.
50. (a) The branch of science that studies cells is called Cytology.
51. (d) Twenty one Vice Presidents are elected at the start of each regular session of General Assembly.
52. (c) Khan Abdul Gaffar Khan was another foreigner who received Bharat Ratna. He was the foremost 20th-century leader of the Pashtuns (a Muslim ethnic group of Pakistan and Afghanistan), who became a follower of Mahatma Gandhi and was called the "Frontier Gandhi."
53. (a) Sir Chandrasekhara Venkata Raman, was an Indian physicist, whose ground breaking work in the field of light scattering earned him the 1930 Nobel Prize for Physics. He discovered that, when light traverses a transparent material, some of the deflected light changes in wavelength. This phenomenon is now called Raman scattering and is the result of the Raman Effect.
54. (a) The Asian Development Bank is a regional development bank established on 22 August 1966 which is headquartered in Metro Manila, Philippines, to facilitate economic development in Asia.
55. (a) K-15 Sagarika is a nuclear-capable submarine-launched ballistic missile with a range of 700 kilometres (435 mi). It belongs to the K Missile family and forms a part of India's nuclear triad, and will provide retaliatory nuclear strike capability.
56. (a) India agreed to remain a member of the UNCCT at the offer of UN Chief Ban Ki Moon. The UNCCT was established in 2011 within the United Nations Counter-Terrorism Implementation Task Force (CTITF), under the leadership of the CTITF, to assist in meeting capacity-building needs of Member States, and to strengthen United Nations' counter-terrorism expertise. The Centre engages with the over 30 CTITF entities with expertise on a broad spectrum of counter terrorism related issues.
57. (a) Kaziranga National Park is a national park in the Golaghat and Nagaon districts of the state of Assam, India. A World Heritage Site, the park hosts two-thirds of the world's great one-horned rhinoceroses.
58. (d) Khashaba Dadasaheb Jadhav (born January 15, 1926-August 14, 1984) was an Indian athlete. He is best known as a wrestler who won a bronze medal at the 1952 Summer Olympics in Helsinki.
59. (b) M. A. Ansari was the Congress President at the Madras session of 1927, when it boycotted the Simon Commission.
60. (c) Ashoka invaded Kalinga in 261 B. C. In this war more than 2 lakh people died, wounded and made prisoners in war. Such a huge carnage and massacre of human lives and the sufferings of the wounded made a deep impression on Ashoka's mind. So he decided to spare his life to the spread of Buddhism around the world.
62. (d) The Jama 'at-Khana-Masjid or Khilji mosque was built in 1325 by Khizr Khan, son of Alauddin Khilji while all the other monuments were built by Allauddin Khilji.
63. (a) During the invasion Alexander, Nanda dynasty was ruling the North India in the Magadha empire.
64. (d) Agni-VI is an intercontinental ballistic missile being developed by the Defence Research and Development Organisation (DRDO) for the use of the Indian Armed Forces. Agni-VI will be a three-stage intercontinental ballistic missile, which is in the hardware development phase, after its design phase was completed.

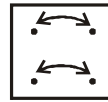
65. (b) Kosuke Hagino, 20, won medals in all seven events he competed in, winning gold in the men's 200m freestyle, 200m and 400m individual medleys, and the 800m freestyle relay, in addition to one silver in the 400m freestyle and two bronze medals in the 100m and 200m backstroke events.
66. (d) Second is another name for the first.
67. (a) Ignominy is the result of disloyalty. Fame is the result of heroism.
68. (d) Loath and Reluctant are synonyms. Coercion and Persuasion are synonyms.
69. (c) Second is the past of first.
71. (d) Some doctors may be married people. All doctor, married people are human being.
73. (a) All thieves are criminal. No criminal is police.
74. (d) Some workers are man. No man is garden.



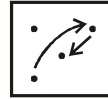
81. (d) • (||→) line is rotating 135° anticlockwise.
 • (∩) line is rotating 45° clockwise.
 • (||→) line is changing its design at third and fifth step.
82. (c) Each branch is rotating 45° anticlock-wise and new branch is added in each step.
83. (c) Form (1) to (2)
 Small circle shifts three steps anticlockwise. New image gets added behind small circle.
 from (2) to (3).
 Small circle and star shifts two steps anticlockwise. New image gets added ahead of small circle.
 From (3) to (4)
 Small circle, star and cross shifts three steps anticlockwise and new image added behind of small circle.
 From (4) to (5)
 Small circle, star, cross and equal to shifts two steps anticlockwise and new image added ahead of small circle.
 From (5) to answer will be



84. (c) From (1) to (2), all images change their position as well as gets inverted.

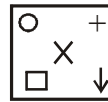


From fig. (2) to (3), pattern follows Image gets inverted as well as change their position.



Same pattern follows till (5).

Now, from figure (5) to Answer figure. Pattern follows.



85. (d) Dots shifts two steps clockwise in each step, everytime one arrow gets reduced in Horizontally and lines changes its position also.
86. (c) All except Oliver Twist are works of Shakespeare, while Oliver Twist is a work of Charles Dickens.
87. (d) All except Montgomery were Admirals. Nimitz was U.S. Admiral, Yamamoto was Japanese Admiral and Nelson was British Admiral, while British Admiral, while Montgomery was British Field Marshal.
88. (c) All except Simmer are connected with light, while simmer is a way of cooking.
89. (c) All others are hills located in India.
90. (c) All except Walrus are fur-bearing animals.
91. (c) In all other options line with arrow is shifting three steps forward clockwise, while in option (c) it is shifting two steps forward clockwise.
92. (d) In option (d) curves in vertical line are not following pattern.
93. (a) In all other options arrow cuts on the line and dot is shifting 90° anti clockwise.
94. (a) Designs are not following the pattern.
96. (a)
-
- Pattern follows (1) to (2)
 and after they change the diagonal of the respective image have one less than shapes.
99. (d) Lower portion of the figure (1) remains same while upper portion gets inverted in the figure (2).
100. (c) Figure (1) gets inverted by 180° then its mirror image is formed in 2nd figure. Hence (c) is the correct choice.