

AFCAT 2 2016 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 to 5) Which word or words explains the meaning of the following idioms:

1. All Agog
(a) Almighty
(b) Unmoved
(c) Praise someone
(d) Full of interest and excitement
2. To the manner born
(a) One of low birth
(b) Naturally at ease
(c) Place of one's birth
(d) Caesarean birth
3. Lose one's marbles
(a) Lose something dear to you
(b) Suffer a setback
(c) Become insane
(d) Become drunk
4. Bolt from the blue
(a) Sea swimming
(b) Complete surprise
(c) Reckless
(d) Careless
5. Be like a bear with a sore head
(a) Be in a foul mood
(b) Have headache
(c) Powerful and arrogant
(d) Restless

DIRECTIONS (Qs. 6 to 9) Choose the word which is nearly opposite in meaning to the given word:

6. Beguile
(a) Deceive
(b) Honest
(c) Charm
(d) Cheat
7. Ameliorate
(a) Deteriorate
(b) Procrastinate
(c) Stagnate
(d) Deviate
8. Feckless
(a) Spotted
(b) Fatuous
(c) Strong
(d) Fawning
9. Cacophonous
(a) Tamed
(b) Harmonious
(c) Silent
(d) Domestic

DIRECTIONS (Qs. 10 to 14): Select the most appropriate word from the options against each number:

About sixty percent of the human body is water. If you could (10) out a human being like a (11), you would obtain about fifty litres

of water. This water which is not like (12) water because of the substance it (13) is necessary to the life of the human being. About a gallon of it is in the blood vessels and is (14) circulating by temperature.

10. (a) work
(b) wrench
(c) press
(d) squeeze
11. (a) mango
(b) lemon
(c) fruit
(d) banana
12. (a) usual
(b) ordinary
(c) common
(d) normal
13. (a) dissolves
(b) carries
(c) contains
(d) includes
14. (a) continued
(b) made
(c) got
(d) kept

DIRECTIONS (Qs. 15 to 18) Choose the correctly spelt word:-

15. (a) Ascendancy
(b) Ascendncy
(c) Ascandency
(d) Acsendancy
16. (a) Hegamony
(b) Hegemony
(c) Hegemoney
(d) Hegamoney
17. (a) Parpetuate
(b) Perpetuete
(c) Perpetuate
(d) Perpatuate
18. (a) Apocaleptic
(b) Apocalyptic
(c) Apocalyptic
(d) Apacalyptic

DIRECTIONS (Qs 19 to 22) Choose the word which is nearest in meaning to the given word:

19. Preposterous
(a) Formal
(b) Judicious
(c) Ridiculous
(d) Ceremonious
20. Dissemble
(a) Disagree
(b) Shake
(c) Impeccable
(d) Conceal
21. Raucous
(a) Flavourful
(b) Jarring
(c) Boisterous
(d) Evil
22. Abrogate
(a) Put an end to
(b) Elope
(c) Gatecrash
(d) Send away

DIRECTIONS (Os. 23 to 25) Read the following passage carefully and answer the questions given below it:

The great Acharyas have said that having discovered a great goal, surrender yourself to that goal and act towards it, **drawing your inspiration from that goal** whereby you will get a new column of energy. Do not allow this energy to be dissipated in the futile memories of past regrets of failure, not in the excitement of the present, and thus bring that entire energy focussed into activity. That is the highest creative action in the world outside. Thereby the individual who is till now considered as most inefficient finds his way to the highest achievement and success. This is said very easily in a second. But in order to train our mind to this attitude needs considerable training because we have already trained the mind wrongly to such an extent that we have **become perfect in imperfections**. Not knowing the art of action, we have become master artist in doing wrong things. The totality of activity will bring the country to a wrong end, indeed. The point is, intellect is very powerful and everyone is driving but nobody seems to know how to control the mental energy and direct it properly, or guide it to the proper destination.

23. Which of the following is the source of energy?
- (a) A column that supports a building.
(b) Stimulation obtained from a set aim.
(c) Highest creative action.
(d) Proper training of the mind to achieve perfection.
24. The author's chief concern is
- (a) Establishment of socialistic pattern.
(b) Discovery of great goal in the life.
(c) Regulation of energy in the proper direction.
(d) Training of the mind.
25. What is the effect of training of the wrong mind?
- (a) We have become perfect in all aspects.
(b) Art of action is too much emphasized.
(c) Each of us could become a master artist.
(d) None of these.

DIRECTIONS (Qs. 26 to 68) Choose the most appropriate answer:

26. The book, 'On My Terms: From the Grassroots to the Corridors of Power,' is the autobiography of
- (a) Lal Thanhawla (b) Ram Jethmalani
(c) Sharad Pawar (d) Okram Ibobi Singh
27. 21st Conference of Parties (COP21) on Climate Change was held in Nov-Dec 2015 at
- (a) London (b) Singapore
(c) Paris (d) New York
28. Artificial rain is produced by seeding clouds with
- (a) Silver Iodide (b) Potassium Nitrate
(c) Copper Sulphate (d) Silver Nitrate
29. Which of the following parts of India receives rainfall from retreating monsoon?
- (a) North East India (b) Tamil Nadu Coast
(c) Mahanadi Delta (d) Malabar Coast

30. Who was honoured with the Order of Australia, the highest civilian award in January this year?
- (a) Yashwant Sinha (b) Vashu Bhagnani
(c) Sajeev Koshy (d) Sanjeev Kapoor
31. Who among the following was awarded India's highest peacetime gallantry award, Ashoka Chakra posthumously on 26 January 2016?
- (a) Lance Naik Mohan Nath Goswami
(b) Lance Naik Albert Ekka
(c) Lance Naik Hanamanthappa Koppad
(d) Lance Naik Hemraj
32. Which one of the following best explains the occurrence of the solar eclipse?
- (a) Position of the Moon between Sun & Earth
(b) Position of the Moon between Sun & Earth on a new moon
(c) Both (a) & (b)
(d) None of these
33. Highest Civilian Award, Bharat Ratna was conferred in 2015 to
- (a) Atal Bihari Bajpayee (b) LK Advani
(c) Jai Prakash Narain (d) Madan Mohan Malviya
34. The indigenously developed Navigational Satellite system is known as
- (a) IRGPS (b) Galileo
(c) IRNSS (d) GLONASS
35. Bajirao was appointed as Peshwa at the age of 20 yrs under the reign of
- (a) Sambhaji (b) Chhatrapati Shahu
(c) Rajaram II of Satara (d) Rajaram Chhatrapati
36. Which cricketer has been conferred with Col C K Naidu life time achievement award in 2015?
- (a) Bishen Singh Bedi (b) Kapil Dev
(c) Mohinder Amarnath (d) Syed Kirmani
37. Besides the Qutab Mosque and Qutab Minar, Qutab-ud-din Aibak is said to have built
- (a) Adhai-din-ka jhopra mosque at Ajmer
(b) Khirki masjid at Jahan-Panath
(c) Mausoleum of Khan-i-Jahan Tilangani
(d) Kila-i-Kuhna mosque at Delhi
38. Indian Ruler who defeated British in their early stage of rule in India was.
- (a) Maharaja Ranjit Singh (b) Mahadaji Scindhia
(c) Hyder Ali (d) Tipu Sultan
39. Who among the following will head the Judicial Committee on 'One Rank One Pension (OROP)' scheme?
- (a) Y V Reddy (b) L Narasimha Reddy
(c) Sanjay Mishra (d) N S Reddy
40. The mascot of the South Asian Games conducted in February 2016 was
- (a) Chikor (b) Shera
(c) Tikhor (d) Appu

41. Who among the following shooters clinched the 50 m pistol gold at the ISSF World Cup in Bangkok in Mar 2016?
 (a) Jitu Rai (b) Pang Wei
 (c) Wang Zhiwei (d) Potent Warren
42. Which country will host Commonwealth Games in 2018?
 (a) New Zealand (b) Australia
 (c) Scotland (d) Malaysia
43. The largest concentration of Harappan sites has been found along the
 (a) Sutlej (b) Ghaggar-Hakra
 (c) Indus (d) Ravi
44. Heavy water is called heavy because
 (a) It is denser than ordinary water
 (b) It is an oxide of deuterium
 (c) It has a heavy (or bad) taste
 (d) It has a heavier isotope of hydrogen
45. Which of the following soils is most conducive for the growth of cotton?
 (a) Alluvial (b) Red
 (c) Laterite (d) Black
46. India has inked a deal with France to acquire fighter aircraft, Dassault Rafale. Which is the other French fighter aircraft in the inventory of Indian Air Force?
 (a) MiG 21 (b) Mirage 2000
 (c) AJT Hawk (d) Su-30 Mkl
47. Resolution of Purna Swaraj was passed on 26 January 1930 at
 (a) Haripur (b) Lahore
 (c) Karachi (d) Calcutta
48. Deepika Padukone has received Filmfare award 2016 for the Best Actress in the movie
 (a) Bajirao Mastani (b) Happy New Year
 (c) Tamasha (d) Piku
49. The largest Oil Field of Gujarat is in
 (a) Senand (b) Kadi
 (c) Ankleshwar (d) Kalol
50. Fundamental Rights are enshrined in the Constitution of India in
 (a) Part I (b) Part III
 (c) Part IV (d) Part V
51. A worker may claim ₹ 1.5 for each km which he travels by taxi and 50 paise for each km he drives his own car. If in one week he claimed ₹ 50 for travelling 80 km, how many kms did he travel by taxi?
 (a) 20km (b) 14km
 (c) 12km (d) 10km
52. In an examination, a student was asked to find $\frac{3}{14}$ of a certain number. By mistake, he found $\frac{3}{4}$ of it. His answer was 150 more than the correct answer. Find the number.
 (a) 180 (b) 280
 (c) 380 (d) 480
53. An amount of ₹ 735 was divided between A, B and C. If each of them had received ₹ 25 less, their shares would have been in the ratio of 1 : 3 : 2. The money received by C was
 (a) ₹ 195 (b) ₹ 200
 (c) ₹ 225 (d) ₹ 245
54. 20 litres of a mixture contains milk and water in the ratio 5 : 3. If 4 litres of this mixture is replaced by 4 litres of milk, the ratio of milk to water in the new mixture would be
 (a) 2:1 (b) 7:3
 (c) 8:3 (d) 4:3
55. A man rows upstream a distance of 9 km or downstream a distance of 18 km taking 3 hours each time. The speed of the boat in still water is
 (a) $7\frac{1}{2}$ km/h (b) $6\frac{1}{2}$ km/h
 (c) $5\frac{1}{2}$ km/h (d) $4\frac{1}{2}$ km/h
56. A can do a piece of work in 10 days. He works at it for 4 days and then B finishes it in 9 days, in how many days can A and B together finish the work?
 (a) 6 days (b) 8 days
 (c) $8\frac{1}{2}$ days (d) $7\frac{1}{2}$ days
57. A crate of mangoes contains one bruised mango for every 30 mangoes in the crate. If 3 out of every 4 bruised mangoes are considered unsalable, and there are 12 unsalable mangoes in the crate, how many mangoes are there in the crate?
 (a) 480 (b) 500
 (c) 420 (d) 520
58. A man can row 30 km upstream and 44 km downstream in 10 hours. He can also row 40 km upstream and 55 km downstream in 13 hours. Find the rate of current,
 (a) 3 km/h (b) 2 km/h
 (c) 4 km/h (d) 5 km/h
59. How long will it take for a sum of money invested at 5 % p.a. at simple interest to increase its value by 40 %?
 (a) 5 years (b) 6 years
 (c) 7 years (d) 8 years
60. The mean of 50 observations was 36. It was found later that an observation 48 was wrongly taken as 23. The corrected new mean is
 (a) 35.2 (b) 34.1
 (c) 36.5 (d) 39.1
61. The average score of a cricketer for ten matches is 38.9 runs. If the average for the first six matches is 42, the average for the last four matches is
 (a) 33.25 (b) 33.5
 (c) 34.25 (d) 35

62. On a certain sum, the simple interest at the end of $6\frac{1}{4}$ years

becomes $\frac{3}{8}$ th of the sum. The rate percent is

- (a) 7% (b) 6%
 (c) 5% (d) $5\frac{1}{2}$ %

63. A horse is sold at a profit of 25%. If both the cost price and selling price are ₹ 200 less, the profit will be 5% more. The cost price is

- (a) ₹ 1100 (b) ₹ 1200
 (c) ₹ 1000 (d) ₹ 900

64. Two trains travel in opposite directions at 36 km/h and 45 km/h respectively. A man sitting in slower train passes the faster train in 8 seconds. The length of the faster train is

- (a) 80m (b) 120m
 (c) 160m (d) 180m

65. By selling a chair for ₹ 368, a man lost 8%. For how much should he have sold it to gain 15%?

- (a) ₹ 450 (b) ₹ 475
 (c) ₹ 460 (d) ₹ 500

66. A train 110 metres long is running with a speed of 60 km/h. In what time will it pass a man who is running at 6 km/h in the direction opposite to that of train?

- (a) 5 sec (b) 6 sec
 (c) 7 sec (d) 10 sec

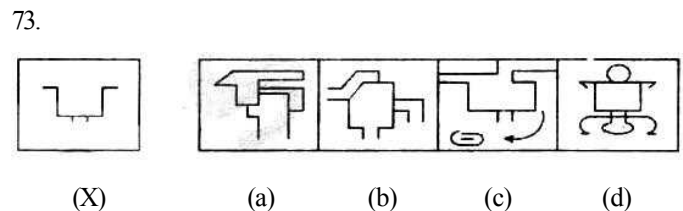
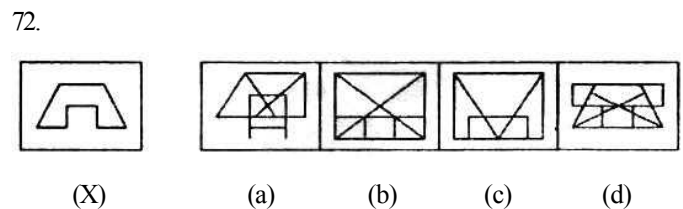
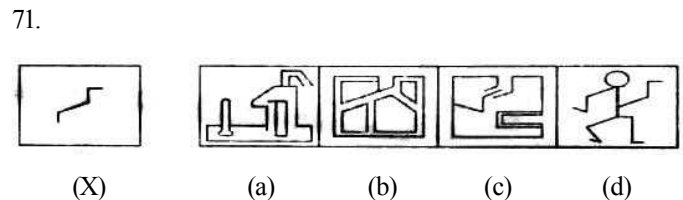
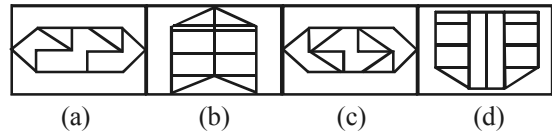
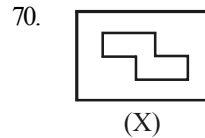
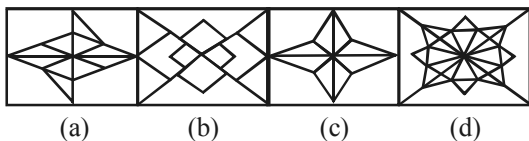
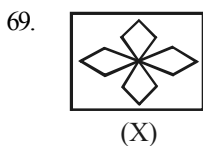
67. If 3 men or 4 women can plough a field in 43 days, in how many days 7 men and 5 women can plough the same field?

- (a) 18 days (b) 10 days
 (c) 12 days (d) 15 days

68. A man sold two watches for ₹ 3750 each; on one he gained 5% and on the other he lost 5%. What was his total gain or loss as a percentage?

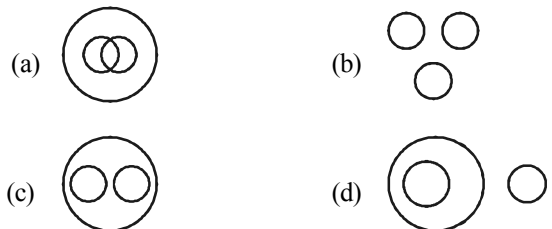
- (a) 0.25% loss (b) 2.5% loss
 (c) 25% gain (d) 12.5% gain

DIRECTIONS (Qs. 69 to 73) In each of the following questions, figure (X) is given followed by four alternative figures (a), (b), (c) and (d). Figure (X) is embedded in one of the alternative figures. Trace out the alternative which contains figure (X) as its part.

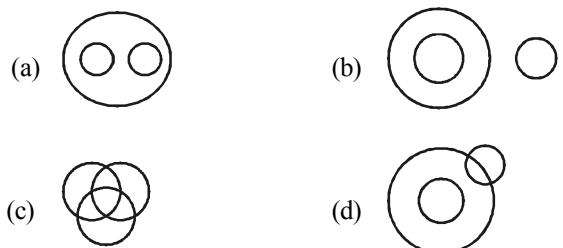


Directions (Qs. 74 to 77): Each of these questions given below contains three elements. These elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (a), (b), (c) or (d). You have to indicate the group of elements which correctly fits into the diagrams:-

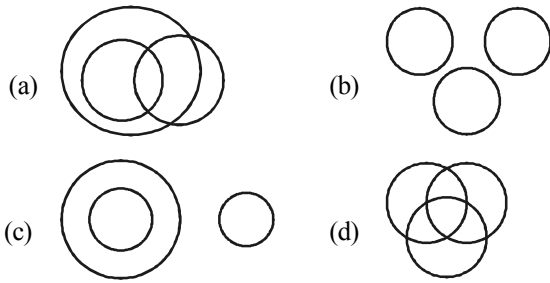
74. Which of the following diagrams indicates the best relation between Mountains, Earth and Forests?



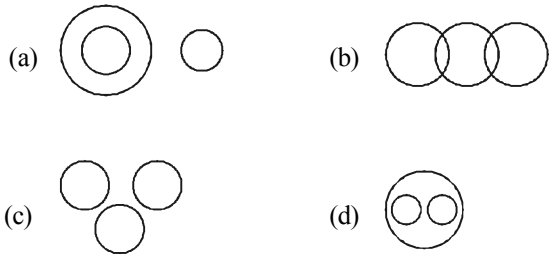
75. Which of the following diagrams indicates the best relation between Sun, Planets and Earth?



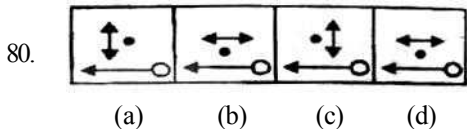
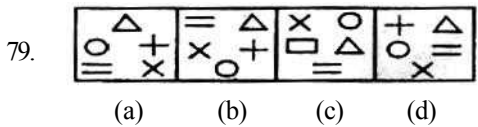
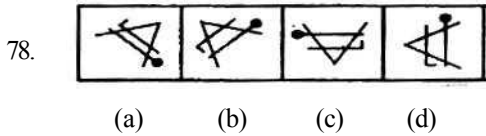
76. Which of the following diagrams indicates the best relation between Graduate, Teacher and Player?



77. Which of the following diagrams indicates the best relation between Leaf, Seed and Root?



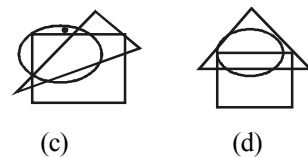
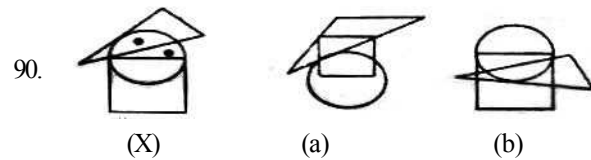
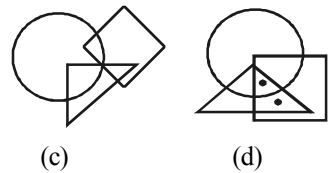
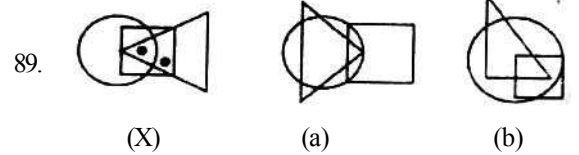
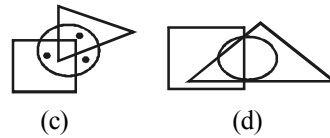
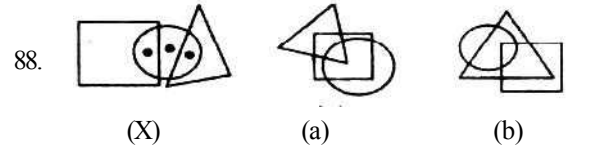
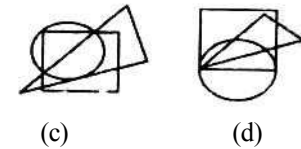
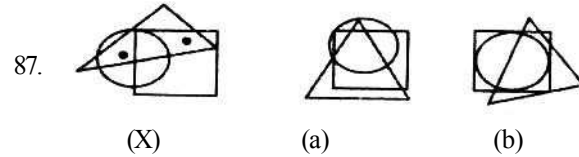
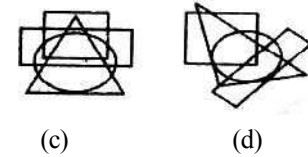
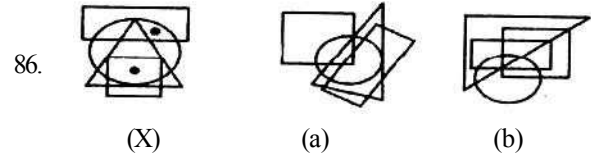
DIRECTIONS (Qs. 78 to 80) In each problem, out of the four figures marked (a) (b) (c) and (d), three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest:



DIRECTIONS (Qs. 81 to 85) 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:

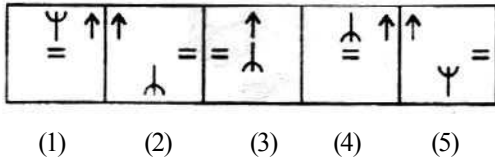
81. (a) Bogota (b) Sydney
 (c) Doha (d) Brussels
82. (a) Retina (b) Pupil
 (c) Vision (d) Cornea
83. (a) Udayagiri and Khandagiri
 (b) Badami
 (c) Elephanta
 (d) Doddabetta
84. (a) Tibia (b) Cortex
 (c) Cranium (d) Cerebellum
85. (a) Saltoro Kangri (b) Kongka
 (c) Zoji La (d) Kumbharli Ghat

DIRECTIONS (Qs. 86 to 90) In each of the following questions, select a figure from amongst the four alternatives, which satisfies the same conditions of placement of the dots as in figure (X):

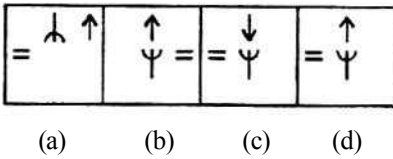


DIRECTIONS (Qs. 91 to 95) Each of the following questions consists of five figures marked 1, 2, 3, 4 and 5 called the Problem Figures followed by four other figures marked (a), (b), (c) and (d) called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures:

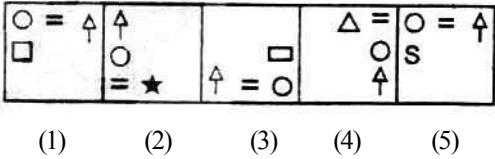
91. Problem Figures:



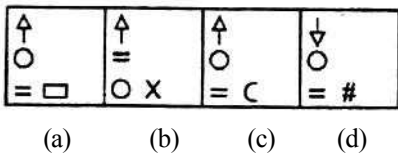
Answer Figures:



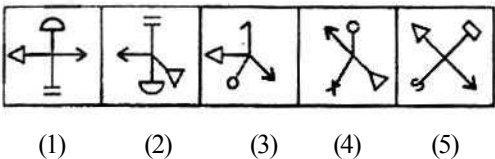
92. Problem Figures:



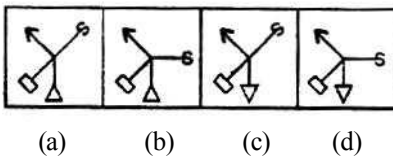
Answer Figures:



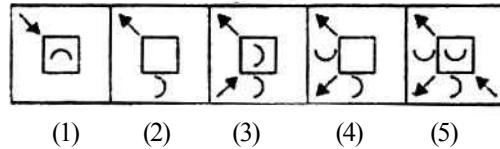
93. Problem Figures:



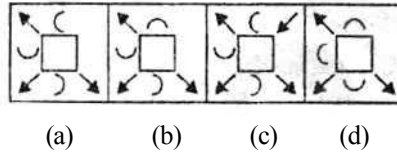
Answer Figures:



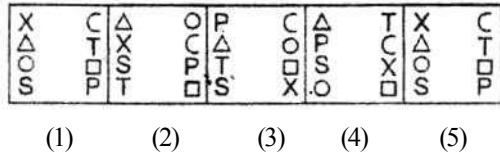
94. Problem Figures:



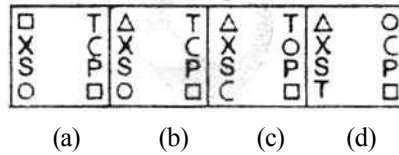
Answer Figures:



95. Problem Figures:



Answer Figures:



Directions (Qs. 96-100) : In each of the following questions, find out the alternative which will replace the question mark:-

96. Anatomy : Zoology :: Paediatrics : ?
 (a) Chemistry (b) Medicine
 (c) Palaeontology (d) Mechanics
97. Eccrinology : Secretions :: Selenography : ?
 (a) Sun (b) Mantle
 (c) Crust (d) Moon
98. Virology : Virus :: Semantics : ?
 (a) Amoeba (b) Language
 (c) Nature (d) Society
99. Tectonics : Building :: Taxidermy : ?
 (a) Classification (b) Conserving
 (c) Stuffing (d) Collecting
100. Annihilation : Fire :: Cataclysm : ?
 (a) Emergency (b) Tribulation
 (c) Anxiety (d) Flood

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

- | | |
|---|--|
| <p>1. (d) The idiom 'all agog' means in high spirits or in eager expectation.</p> <p>2. (b) The idiom 'to the manner born' means naturally at ease in a specified job or situation.</p> <p>3. (c) The idiom 'lose one's marbles' means to lose one's mind.</p> <p>4. (b) The idiom 'bolt from the blue' means something important or unusual that happens suddenly or unexpectedly.</p> <p>5. (a) The idiom 'be like a bear with a sore head' means to be in a bad mood that causes you to treat other people badly.</p> <p>6. (b) Beguile means to attract or delight someone, often in a deceptive way. So, the antonym of beguile is honest.</p> <p>7. (a) Ameliorate means to make something better. So, the antonym of ameliorate is to deteriorate.</p> <p>8. (c) Feckless means lacking initiative or strength of character; irresponsible. So, the antonym of feckless is to be strong.</p> <p>9. (c) Cacophonous means producing a harsh, discordant mixture of sounds. So, the antonym of cacophonous is to be silent.</p> <p>10. (d) Squeeze means to take out something forcefully.</p> <p>11. (b) Lemon can be squeezed to take out juice.</p> <p>12. (d) Normal water means water not having anything dissolved in it.</p> <p>13. (c) Water contains essential elements required by the human body.</p> <p>14. (d) Water is kept circulating by temperature.</p> <p>15. (a) Ascendancy means occupation of a position of dominant power or influence.</p> <p>16. (b) Hegemony means leadership or dominance quality of a person.</p> <p>17. (c) Perpetuate means to make something continue indefinitely.</p> <p>18. (c) Apocalyptic means describing or prophesying the complete destruction of the world.</p> | <p>19. (c) Both preposterous and ridiculous mean contrary to reason or common sense; utterly absurd.</p> <p>20. (d) Dissemble means conceal or disguise one's true feelings or beliefs.</p> <p>21. (c) Both raucous and boisterous mean making or constituting a disturbingly harsh and loud noise.</p> <p>22. (a) Abrogate means repeal or do away with.</p> <p>23. (b) The source of energy is the stimulation obtained from a set aim.</p> <p>24. (c) The author is concerned about using energy in right direction, bringing positive result.</p> <p>26. (c) Indian politician Sharad pawar is the author of the book 'On My Terms: From the Grassroots to the Corridors of Power'. Through his five- decade-long career, during which he has never lost an election, he has served as chief minister of Maharashtra four times. He has often bucked the trend, preferring policy and pragmatism over populism.</p> <p>27. (c) 21st Conference of Parties (COP21) on Climate Change was held in Paris, France, from 30 November to 12 December 2015. It was the 21st yearly session of the Conference of the Parties (COP) to the 1992 United Nations Framework Convention on Climate Change (UNFCCC) and the 11th session of the Conference of the Parties (CMP) to the 1997 Kyoto Protocol. The Conference negotiated the Paris Agreement.</p> <p>28. (a) Cloud seeding is a form of weather modification, aimed at increasing precipitation. The most common chemicals used for cloud seeding include silver iodide, potassium iodide and dry ice (solid carbon dioxide).</p> <p>29. (b) When the retreating monsoon blows from the northeast across the Bay of Bengal, it picks up a significant amount of moisture, which is subsequently released after moving back onto the peninsula. Thus, from October to December the coast of Tamil Nadu state receives at least half of its roughly 40 inches (1,000 mm) of annual precipitation.</p> |
|---|--|

30. (c) Sajeev Koshy, a dentist in Melbourne, received the Order of Australia medal for the year 2016 announced on the Australia Day. Other two recipients of the award were Chennupati Jagadish, an eminent professor at Australian National University (ANU) in Canberra, and Jay Chandra, an eye doctor in New South Wales.
31. (a) President Pranab Mukherjee has conferred the country's highest peacetime gallantry award Ashok Chakra to Lance Naik Mohan Nath Goswami in January 2016. He belonged to 9 PARA (Special Force) and laid down his life while fighting LeT militants in Kupwara district of Jammu and Kashmir.
32. (b) A solar eclipse is a type of eclipse that occurs when the Moon passes between the Sun and Earth, and when the Moon fully or partially blocks the Sun. This can happen only at new moon when the Sun and the Moon are in conjunction.
33. (a & d) Bharat Ratna in 2015 was given to freedom fighter and educationist Madan Mohan Malviya and former Indian Prime Minister Atal Bihari Bajpayee.
34. (c) The Indian Regional Navigation Satellite System (IRNSS) with an operational name of NAVIC is an autonomous regional satellite navigation system that provides accurate real-time positioning and timing services. The system at-present has a constellation of 7 satellites, with two additional satellites on ground as stand-by.
35. (b) Bajirao served as Peshwa to the fifth Maratha Chhatrapati Shahu from 1720 until his death. Bajirao is credited with expanding the Maratha Empire, especially in North India, which contributed to its reaching a zenith during his son's reign twenty years after his death.
36. (d) Former India stumper Syed Kirmani was chosen for the prestigious Col. C.K. Nayudu Lifetime Achievement award for 2015. He has served as chairman of the senior national selection committee and vice-president of the Karnataka State Cricket Association (KSCA).
37. (a) Adhai Din Ka Jhonpra is a mosque in the Ajmer city of Rajasthan, India. It was commissioned by Qutb-ud-Din-Aibak, on orders of Muhammad Ghori, in 1192 CE. It was completed in 1199 CE, and further beautified by Iltutmish of Delhi in 1213 CE. The mosque was constructed on the remains of a Sanskrit college, with materials from destroyed Hindu and Jain temples.
38. (c) In the First Anglo-Mysore War (1767-69), the British were defeated by Hyder Ali in a number of battles. This was followed by the Second Anglo-Mysore War (1780-84), which resulted in stalemate but also included the Battle of Pollilur, where the British first encountered the hugely effective Mysorean rockets.
39. (b) Justice (Retd.) LNarasimha Reddy, former Chief Justice of Patna High Court, headed the Judicial Committee which looked into the implementation of One Rank One Pension (OROP) scheme.
40. (c) Tikhor, the baby Indian Rhino, was unveiled to the public as the official mascot for the 2016 South Asian Games. According to the organising committee, Tikhor carried the message of Peace, Progress, and Prosperity in the South Asian region. This was in line with the official motto, "Play for Peace, Progress and Prosperity".
41. (a) Jitu Rai won gold medal at the ISSF World Cup held in Bangkok in March 2016. Jitu reached the final by finishing third at the end of the 60 shot qualifying series with a score of 562.
42. (b) The 2018 Commonwealth Games, commonly known as Gold Coast 2018 will be held on the Gold Coast, Queensland, Australia, between 4 and 15 April 2018. It will be the fifth time Australia has hosted the Commonwealth Games.
43. (b) The largest concentration of Harappan site has been found along Ghaggar-Hakra River, which is an intermittent, endorheic river in India and Pakistan that flows only during the monsoon season. Over 530 Harappan sites (of the more than 800 known sites, not including Late Harappan or OCP) are located on the Ghaggar-Hakra.
44. (d) Heavy water or deuterium oxide is called heavy water because it is composed of heavier isotope of hydrogen called deuterium.
45. (d) Most conducive soil for cotton is blacks soil because black soils are highly argillaceous, very fine grained and dark, and contain a high proportion of calcium and magnesium carbonates.
46. (b) Dassault Mirage 2000 is a French multirole, single-engine fourth-generation jet fighter manufactured by Dassault Aviation. It was designed in the late 1970s as a lightweight fighter to replace the Mirage III for the French Air Force. The sale of US F-16s to Pakistan prompted India to enter talks with France regarding the purchase of the Mirage 2000. In October 1982, the country placed an order with Dassault for 36 single-seat Mirage 2000Hs and 4 twin-seat Mirage 2000THs.
47. (b) Resolution of Purna Swaraj was passed on 26 January 1930 at Lahore. Purna Swaraj declaration, or Declaration of the Independence of India, was promulgated by the Indian National Congress under the influence of Bhagat Singh and other revolutionaries on 19 December 1929, resolving the Congress and Indian nationalists to fight for Purna Swaraj, or complete self-rule independent of the British Empire.
48. (d) Indian actress Deepika Padukone received Filmfare Award 2016 in the Best Actress category for her film 'Piku'.
49. (c) The largest oil field of Gujarat is Ankleshwar. Oil at this field is available at depths varying from 1,000 to 1,200 metres. It has a capacity of 2.8 million tonnes per annum.
50. (b) Fundamental rights are contained in Part III of Constitution of India. It guarantees civil liberties such that all Indians can lead their lives in peace and harmony as citizens of India.

51. (d) Let Distance travelled by taxi x km and by our car be y km

ATQ

$$x + y = 80 \quad \dots(i)$$

$$1.5x + .5y = 50 \quad \dots(ii)$$

Multiplying Eq(i) by .5 and subtracting Eq(ii) from (i)

$$x = 10$$

Distance travelled by taxi is 10 Km

52. (b) Let the number be x

ATQ

$$\frac{3}{4}x - \frac{3x}{14} = 150$$

$$\frac{3x}{2} \left[\frac{1}{2} - \frac{1}{7} \right] = 150$$

$$x \left[\frac{7-2}{14} \right] = 100$$

$$x \left[\frac{5}{14} \right] = 100$$

$$x = 280$$

53. (d) Let A got = $x + 25$
B got = $3x + 25$
C got = $2x + 25$

ATQ

$$x + 25 + 3x + 25 + 2x + 25 = 735$$

$$6x = 735 - 75$$

$$6x = 660$$

$$x = 110$$

$$\begin{aligned} \text{Money received by C} &= 2x + 25 \\ &= 2 \times 110 + 25 = 245 \end{aligned}$$

54. (b) Amount of water in mixture = $\frac{3}{3+5} \times 20 = 7.5l$

$$\text{amount of Milk in mixture} = \frac{5}{8} \times 20 = 12.5l$$

When 4 litre is drawn out of mixture remaining Mixture = 16l

$$\text{Water amount} = \frac{3}{8} \times 16 = 6l$$

$$\text{Milk amount} = \frac{5}{8} \times 16 = 10l$$

After adding 4 litre of milk

Total mixture = 20l

Milk = 10 + 4 = 14l

Water = 6l

$$\text{Ratio} = \frac{M}{W} = \frac{14}{6} = 7:3$$

55. (d) Speed of boat upstream = $\frac{9}{3} = 3\text{km/hr}$

$$\text{Speed of boat down stream} = \frac{18}{3} = 6 \text{ km/hr}$$

Let speed of boat be = x km/hr

Let speed of stream be = y km/hr

ATQ

$$x + y = 6$$

$$x - y = 3$$

By subtracting

$$2x = 9$$

$$x = \frac{9}{2} \text{ or } 4\frac{1}{2} \text{ km/hr}$$

56. (a) A can do a work in 10 day

A can do work in 1 day = $\frac{1}{10}$ part of work

Let B can do in x days

in 1 day he can do = $\frac{1}{x}$ part of work

A working for 4 day and B for 9 days work is completed

$$\text{ie } \frac{4}{10} + \frac{9}{x} = 1$$

$$\frac{9}{x} = \frac{6}{10}$$

$$x = 15 \text{ days}$$

Then Both A and B can do in 1 day = $\frac{1}{10} + \frac{1}{15}$ part of

$$\text{work} = \frac{1}{6}$$

Or they both will complete work in 6 days

57. (a) Let the total no. of Mangoes in the crate be x . Then the

no. of bruised Mango = $\frac{x}{30}$

$\left[\text{as } \frac{1}{30} \text{ th Mango is bruised} \right]$ and every $\frac{3}{4}$ th is unsalable of bruised.

$$\text{Then the unsalable Mangoes} = \frac{3}{4} \left(\frac{x}{30} \right) = \frac{x}{40}$$

$$\frac{x}{40} = 12$$

$$x = 480$$

58. (a) Let rate of upstream = x kmph and rate of downstream = y kmph

Then

$$\frac{30}{x} + \frac{44}{y} = 10$$

$$\text{and } \frac{40}{x} + \frac{55}{y} = 13$$

On solving we get $x = 5, y = 11$

So, rate of upstream = 5Km/hr and rate of downstream = 11Km/hr

$$\text{Rate of current} = \frac{1}{2} [11 - 5] = 3 \text{ km/hr}$$

59. (d) Let the sum be x. then SI = 40% of x = $\frac{2x}{5}$ Rate = 5%.

$$\text{Time} = \left[\frac{100 \times 2x}{5} \times \frac{1}{5x} \right] \quad \left[T = \frac{100 \times \text{SI}}{P \times R} \right]$$

$$= 8 \text{ years}$$

60. (c) Correct sum = $(36 \times 50 + 48 - 23) = 1825$.

$$\text{Correct mean} = \frac{1825}{50} = 36.5$$

61. (c) Average score of 10 matches = 38.9

$$\text{Total score} = 38.9 \times 10 = 389$$

$$\text{Average score of 6 matches} = 42$$

$$\text{Total score} = 42 \times 6 = 252$$

$$\text{Total score for remaining 4 matches} = 389 - 252 = 137$$

$$\text{Average for 4 matches} = \frac{137}{4} = 34.25$$

62. (b) Let principal be = P, SI = $\frac{3P}{8}$

$$R = R, T = 6\frac{1}{4} \text{ year}$$

$$\text{SI} = \frac{\text{PTR}}{100}$$

$$\frac{3P}{8} = \frac{P \times 25 \times R}{100 \times 4}$$

$$R = 6\% \text{ P. a}$$

63. (b) Let CP of Horse be = ` x

$$\text{Then SP after getting 25\% profit} = \frac{125}{100} x$$

$$\text{When CP is 200 Less CP} = (x - 200)$$

$$\text{Profit} = 30\%$$

$$\text{SP} = \frac{130}{100} (x - 200)$$

ATQ

$$\frac{130}{100} (x - 200) = \frac{125}{100} x - 200$$

$$\frac{130}{100} x - 260 = \frac{125}{100} x - 200$$

$$\frac{5x}{100} = 60$$

$$x = ` 1200$$

64. (d) Relative speed of both trains = $(36 + 45) \text{ km/hr}$

$$= \left(81 \times \frac{5}{18} \right) \text{ m/sec}$$

$$= \frac{45}{2} \text{ m/sec}$$

Distance travelled by train while passing man = length of train.

$$\text{Length of train} = \frac{45}{2} \times 8 = 180 \text{m} \quad \therefore (D = ST)$$

65. (c) SP of chair = ` 368, Let CP = ` x
Loss% = 8%

$$\left[\frac{100 - 8}{100} \right] x = 368$$

$$x = \frac{368}{92} \times 100 = 400$$

When, profit = 15%

$$\therefore \text{SP} = \frac{115}{100} \times 400 = ₹ 460$$

66. (b) Relative speed of train for man = speed of train + speed of man = $(60 + 6) \text{ km/hr}$

$$= \left(66 \times \frac{5}{18} \right) \text{ m/sec}$$

$$= \frac{55}{3} \text{ m/sec}$$

Distance travelled by train while crossing man = length of train.

$$\text{Length of train} = 110 \text{ metres}$$

$$\text{Time taken} = \frac{D}{S}$$

$$= \frac{110}{55} \times 3 = 6 \text{ sec}$$

67. (c) 3 men can Plough Field in 43 days, 1 man will plough in 43×3

4 women can plough in 43 days 1 women will plough in = 4×43 days.

Work done by 1 men and 1 women in 1 day

$$= \frac{1}{43 \times 3} + \frac{1}{43 \times 4}$$

Work done by 7 men and 5 women in 1 day

$$= \frac{7}{43 \times 3} + \frac{5}{43 \times 4}$$

$$= \frac{1}{43} \left[\frac{28 + 15}{12} \right] = \frac{43}{43 \times 12} = \frac{1}{12}$$

They will do work in 12 days.

68. (a) CP of first watch = $\frac{3750}{105} \times 100$

CP of second watch = $\frac{3750}{95} \times 100$

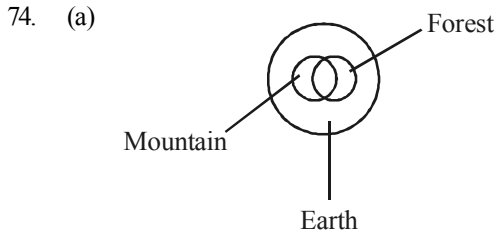
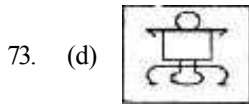
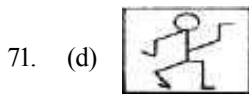
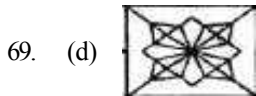
Total CP = $\frac{3750 \times 100}{5} \left(\frac{1}{21} + \frac{1}{19} \right)$

= $\frac{375000}{5} \left(\frac{40}{21 \times 19} \right)$

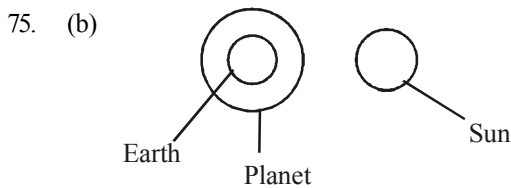
= $\frac{3000000}{21 \times 19} = 7518.80$

Total SP = $3750 + 3750 = 7500$
 Loss = 18.80

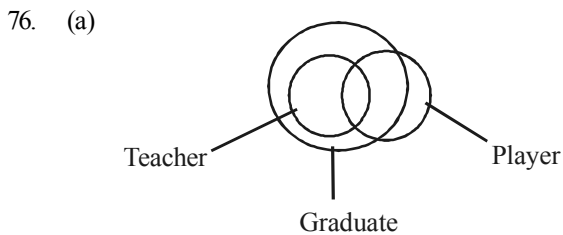
Loss% = $\frac{18.80}{7500} \times 100 \approx .25\%$ loss



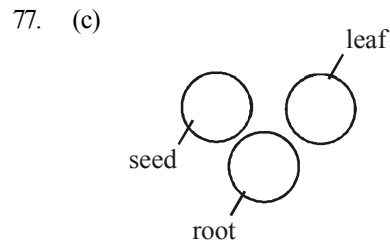
∴ There are some forest at mountains also and they both are on earth



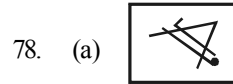
∴ Earth belongs to the class of Planets. But, Sun is entirely different from the two.



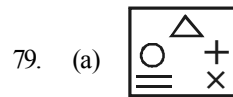
∴ Every teacher is graduate and there are some graduate teacher who are also player



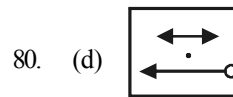
Seed, leaf and root are unrelated to each other, hence the relationship is as shown in the figure above.



∴ in all the three diagram except (a) is like toward

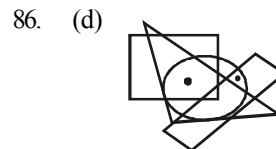


∴ Figure in Middle is in upward direction where as figure in Middle is in downward direction in remaining 3 figure.

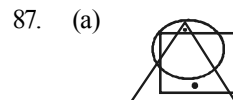


is Rotating Clockwise around in Remaining 3.

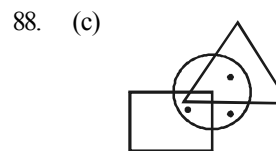
- 81. (d) Except brussels all the three are capital city.
- 82. (c) Except vision all the three are parts of eyes.
- 83. (d) doddabetta is the mountain peak whereas all the three are caves.
- 84. (a) Except tibia all the three are related to brain.
- 85. (a) Saltoro kangri is the mountain peak where as all the three are mountain pass.



Since one point is in circle and Rectangle while other point is in square, triangle and Circle.

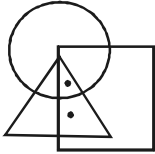


Since one point is in triangle and Circle and other in triangle and square answer figure is (a).



Since First Point is in Circle and square second is in circle only and third is in circle and triangle. answer figure is (c).

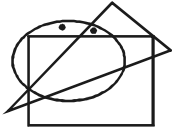
89. (d)



One point in the figure lies in triangle, square and circle, while other point lies in triangle and square.

∴ Answer figure is (d).

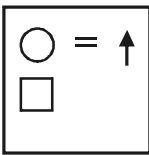
90. (c)



One point is in circle and other in circle and triangle.

∴ Answer figure is (c).

92. (b)



↑ → In each step, it moves one side in anti-clockwise direction.

= → It moves alternate one-half side and half side in each option.

○ → It moves alternate half side and one-half side in each option.

□ → It moves one side and change into new element. So, answer is option (b).

94. (a) Step - I → Arrow and curve are added.

Step - II → Arrow rotates opposite direction and curve moves outside. So, answer is option (a).

96. (b) Anatomy is a branch of Zoology.

Similarly, Paediatrics is a branch of medicine.

97. (d) Eccrinology is the study of secretions similarly, selenography is the study of moon.

98. (b) Virology deals with the effects of virus.

Similarly, semantics deals with the effects of language.

99. (c) Tectonics is the science dealing with the art of building. Similarly, taxidermy is the art of stuffing animals.

100. (d) First is result of second.