AFCAT PREVIOUS YEAR PAPER 1 2013

Directions (1-5): Read the following passage carefully and answer the questions given below:

We shall go on the end, we shall fight in France, we shall fight on the seas and oceans, we shall fight with the growing confidence and strength in the air, we shall defend our island, whatever the cost may be, we shall fight on the beaches, we shall fight on the landing grounds, we shall fight in the fields and in the streets, we shall fight in the hills. We shall never surrender, and even if this island or a large part of it was subjugated and starving, then our empire beyond the seas would carry on the struggle, until the New World steps forth to the rescue and the liberation of the Old.

Q1. On the basis of the passage which of the following statements may be said to be correct?
(a) The speaker is encouraging his men for the conquest of France
(b) The speaker is an aggressive and maniacal war-monger
(c) The speaker is not satisfied with the conquest of the island
(d) The speaker is a patriot urging the defence of his motherland

Q2. The speaker in the passage wants to go on fighting because
(a) he is a raving lunatic
(b) he is in a state of utter despair
(c) he expects help from other quarters
(d) he is the leader of a suicide squad

Q3. Which of the following pair of the phrases helps best to bring out the intension of the speaker?
(a) "Go on to the end", "shall never surrender"
(b) "Growing confidence", "subjugated and starving"
(c) "Subjugated and starving", "fighting and landing around"
(d) "Fighting in the streets", "subjugated and starving"

Q4. The passage consists of repetitive patterns in syntax and vocabulary. The effect of this style is that it
(a) reveals the speaker's defects in giving a speech
(b) produces the impression of bad poetry
(c) conveys the speaker's helpless situation
(d) reinforces the speaker's basic intention

Q5. The tone of the speaker is
(a) pleading and urging
(b) inspiring and encouraging
(c) discouraging and gloomy

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(d) menacing and bullying

Directions (6 – 8): In each of the following, choose the word most similar in meaning to the word given in capitals.

Q6. "MEDDLE"
(a) Disregard
(b) Overlook
(c) Interfere
(d) Free

Q7. "ABJURE"
(a) Renounce
(b) Run off secretly
(c) Abide
(d) Discuss

Q8. "ESTRANGE"
(a) Endanger
(b) To become puzzling
(c) Miscalculate
(d) Alienate

Directions (9-10): In each of the following, choose the word most nearly opposite in meaning to the word given in capitals.

Q9. "DEROGATORY"
(a) Conferred
(b) Immediate
(c) Praising
(d) Private

Q10. "WANE"
(a) Widen
(b) Poor
(c) Swell
(d) Tight

Directions (11–15): In each of the following questions, find out which part has an error

Q11. The police has (a)/arrested the thief (b)/who broke into my house (c)/last night. (d)

Q12. The man who (a)/they thought to be (b)/a gentleman turned out (c)/to be a rogue. (d)

Q13. I told him on his face (a)/that he could not hope (b)/to pass the stringent (c)/Medical examination of the Services Selection Board. (d)

Q14. Mohan is one of those boys (a)/who has expressed (b)/ willingness for joining (c)/the education tour. (d)

Q15. I may spend (a)/ this summer vacations (b)/with one of my friends (c)/ in the back waters of Kerala. (d)

Directions (16-20): Pick up the most effective word from the given words to fill in the blanks to make the sentence meaningfully complete.

Q16. According to the weather _____ it is going to be cloudy today.
(a) announcement
(b) indication
(c) prediction
(d) forecast

Q17. The villagers _____ the murder of their leader by burning the police van.
(a) protested
(b) avenged
(c) mourned
(d) consoled

Q18. While on the routine fight, the aircraft was hit by a missile and _____ into flames.
(a) fired
(b) burst
(c) caught
(d) engulfed

Q19. Hari got the company car for a _____ price as he was the senior most employee in the company.
(a) reduced
(b) discounted
(c) fixed

(d) nominal

Q20. The unruly behaviour of the soldiers _____ their commander.
(a) clashed
(b) aggrieved
(c) incensed
(d) impeached

Directions (21–40): Choose the correct answer.

Q21. Who accorded the title 'Mahatma" to MK Gandhi?
(a) Sardar Patel
(b) Nehru
(c) Sarojini Naidu
(d) Rabindranath Tagore

Q22. The Non co-operation Movement started in which year?
(a) 1900
(b) 1921
(c) 1940
(d) 1935

Q23. During the Middle Ages education was confined only to
(a) Kshatriyas
(b) Brahmins
(c) Peasants
(d) Shudras

Q24. Who among the following was responsible for the spread of Buddhism in Sri Lanka?
(a) Ashoka
(b) Mahavira
(c) Parsavanath
(d) Chandra Gupta Maurya

Q25. The elements which have low value of ionization potential are strong
(a) oxidising agents
(b) reducing agents
(c) oxidising and reducing agents depending upon the reactants
(d) none of these

Q26. Wayne Rooney, the famous footballer, hails from which country?
(a) Italy
(b) Brazil
(c) Argentina
(d) England

Q27. The official song 'WakaWaka' of FIFA World Cup held in the year 2010 at South Africa was sung by which popular singer?
(a) Madonna
(b) Destiny Child
(c) Shakira
(d) Rihanna

Q28. In the year 2011, the ace badminton player Saina Nehwal was honored with which sports award?
(a) Dronacharya award
(b) Rajiv Gandhi Khel Ratana award
(c) Arjun award
(d) None of these

Q29. Term 'Visible Horizon' in astronomy is defined as
(a) The circle of contact of the earth and the cone of visual rays passing through the meridian of the place
(b) The circle of contact of the earth and the cone of visual rays not passing through the meridian of the place
(c) The circle of contact of the earth and the cone of visual rays passing through the point of observation
(d) The circle of contact of the earth and the cone of visual rays not passing through the point of observation

Q30. NREGA stands for
(a) National Revenue Engagement Guarantee Association
(b) National Revenue Employment Guarantee Act
(c) National Rural Employment Guarantee Association
(d) National Rural Employment Guarantee Act

Q31. River Sutlej originates from
(a) Northern slopes of the Kailash range
(b) Spring at Verinarg
(c) Rakas Lake
(d) Amarkantak plateau

Q32. Limonitic ore is the ore of which metal?
(a) Iron
(b) Aluminium
(c) Zinc
(d) Cobalt

Q33. Black 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
(d) None of these

Q34. Karrar is the unmanned bomber aircraft of
(a) Iraq
(b) Iran
(c) Turkey
(d) Pakistan

Q35. Who is the author of book 'Keeping the Faith: Members of a Parliamentarian'?
(a) David Omand
(b) Raja Shehadeh
(c) Raghav Bhal
(d) Somnath Chatterjee

Q36. _____ is a thyroid hormone which controls the balance of calcium in the body
(a) Calcitonin
(b) Thyroxine
(c) Calmodulin
(d) All of these

Q37. The cell wall in plants is interrupted by narrow pores carrying fine strands of cytoplasm which interlink the contents of the cells. These strands are called:-
(a) Plasmohole
(b) Microvilli
(c) Plasmodesmata
(d) Plasmalemma

Q38. Who is the cricketer bestowed with an honorary commission in the Territorial Army?
(a) Sachin Tendulkar

(b) Kapil Dev
(c) Virendra Sehwag
(d) Harbhajan Singh

Q39. The transport phenomenon occurs only in _____ state of a gas and is _____.
(a) non-equilibrium, irreversible
(b) non-equilibrium, reversible
(c) equilibrium, irreversible
(d) equilibrium, reversible

Q40. Which of the following compounds form nitrites with nitrous acid?
(a) Primary amines
(b) Secondary amines
(c) Tertiary amines
(d) All of these

Q41. The number whose square is equal to the difference of the squares of 37 and 23 is
(a) 45.09
(b) 28.98
(c) 47.09
(d) 28

Q42. The average age of 8 men is increased by 4 years when one of them whose age is 30 years is replaced by a new man.
What is the age of new man?
(a) 55 years
(b) 62 years
(c) 42 years
(d) 69 years

Q43.A vessel, full of water, weighs 24 kg. When the vessel is 1/4 full, it weighs 9 kg. Find the weight of empty vessel.
(a) 4 kg
(b) 5 kg
(c) 8 kg
(d) 3 kg

Q44. If $a - b = 4$ and $ab = 45$ find the value of $a^3 - b^3$.
(a) 604

(b) 370
(c) 253
(d) 199

Q45. If a/ (a + b) = 15/21, what is (a + b)/(a – b) equal to?
(a) 13/9
(b) 23/11
(c) 14/5
(d) 21/9

Q46. $\frac{(798+579)^2-(798-579)^2}{(798\times579)}$ =?
(a) 2
(b) 6
(c) 4
(d) 8

Q47. A man's average monthly expenditure for the first four months of the year was Rs. 231.25. For the next five months, the average monthly expenditure was Rs. 22.75 more than what it was during the first four months. If the person spent Rs. 605 in all during the remaining three months of the year, find what percentage of his annual income of Rs. 3500 did he save in the year?
(a) 10%
(b) 15%
(c) 20%
(d) 25%

Q48. The average age of students of a class is 15.8 years. The average age of boys in the class is 16.4 years and that of the girls is 15.4 years. The ratio of the number of boys to the number of girls in the class is
(a) 1 : 2
(b) 2 : 3
(c) 3 : 4
(d) 3 : 5

Q49. 18 buckets of water fill a tank when the capacity of each bucket is 8 litres. How many buckets will be needed to fill the same tank, if the capacity of the bucket is 12 litres?
(a) 12
(b) 13.5
(c) 24
(d) cannot be determined due to insufficient data

Q50. Srinivasan invests two equal amounts in two banks giving 8% and 12% rate of interest respectively. At the end of year the interest earned is Rs. 1500. Find the sum invested in each.
(a) Rs. 8500
(b) Rs. 15000
(c) Rs. 7500
(d) Rs. 17000

Q51. The simple interest accrued on a sum of money at the end of four years is 1/5th of its principal. What is the rate of interest per annum?
(a) 4%
(b) 5%
(c) 6%
(d) Inadequate data

Q52. A sum of Rs. 2600 is lent out into two parts, one at 9% and another at 7%. If the total annual income is Rs. 206, find the money lent at 7%.
(a) Rs. 1400
(b) Rs. 900
(c) Rs. 1600
(d) Rs. 1200

Q53. In an election between two candidates, 70% of the voters cast their votes, out of which 2% of the votes were declared invalid. A candidate got 7203 votes which was 60% of the total valid votes. Find the total number of voters enrolled in that election.
(a) 18050
(b) 17500
(c) 17000
(d) 7203

Q54. The price of Kerosene was increased by 11%. What percent a house holder must reduce his consumption of kerosene so as not to increase his expenditure?
(a) 11%
(b) 9.9%
(c) 11.09%
(c) 8.25%

Q55. 75 pupils from a school appeared for an examination and 80% of them passed. Another school entered 10 more pupils than the first school and five pupils less than the first school passed. The pass % of in the second school was

(a) 75%
(b) 84%
(c) 72%
(d) 64.7%

Q56. Divide Rs. 80 in the production of 3 : 6 : 7.
(a) Rs. 10, Rs. 35, Rs. 40
(b) Rs. 15, Rs. 30, Rs. 35
(c) Rs. 15, Rs. 35, Rs. 30
(b) Rs. 10, Rs. 40, Rs. 35

Q57. Calculate the amount on Rs. 1875 for 2 years at 4% per annum, compounded yearly.
(a) Rs. 676
(b) Rs. 776
(c) Rs. 1778
(d) Rs. 2028

Q58. If x varies as y and x = 8 when y = 15 then the values of x when y = 10 is
(a) 5
(b) 15/8
(c) 8/15
(d) 16/3

Q59. In a mixture of 60 litres, the ratio of milk and water is 2: 1. What amount of water must be added to make the ratio of milk and water as 1: 2?
(a) 42 Litres
(b) 56 Litres
(c) 60 Litres
(d) 77 Litres

Q60. A sum of Rs. 10,000 is lent partly at 6% and the remaining at 10% p.a. If the yearly interest on the average is 9.2%, the money lent at 10% is
(a) Rs. 8000
(b) Rs. 8500
(c) Rs. 5000
(d) Rs. 2000

DIRECTIONS (Qs. 61 – 65): Choose the word which is least like the other words in the group

Q61.
(a) Garo
(b) Khasi
(c) Kangra
(d) Jayantia

Q62.
(a) Virgo
(b) Pisces
(c) Cancer
(d) Orion

Q63.
(a) Shoulder
(b) Foot
(b) Finger
(d) Elbow

Q64.
(a) Canoe
(b) Dingy
(c) Yatch
(d) Igloo

Q65.
(a) Inn
(b) Club
(c) Motel
(d) Hostel

DIRECTIONS (Qs. 66 – 70): The following questions consist of two words that have a certain relationship to each other, followed by four alternatives. Select the best alternative that has the same relationship as the original pair of words

Q66. Liquor: Drink
(a) Bread: Butter
(b) Tea: Beverage
(c) Sniff: Inhale
(d) Water: Sip

Q67. Evaporation: Cloud
(a) Mountain: Snow
(b) Book: Pages
(c) Pressure: Atmosphere
(d) Tension: Breakdown

Q68. Barrel: Vial
(a) Book: Pamphlet
(b) Book: Reader
(c) Brochure: Complier
(d) Length: Height

Q69. Cream: Cosmetics
(a) Tiger: Forest
(b) Mountain: Valley
(c) Magazine: Editor
(d) Teak: Wood

Q70. Carnivore: Herbivore
(a) Flesh: Plant
(b) Horse: Lion
(c) Camel: Giraffe
(d) Animal: Bird

DIRECTIONS (Qs. 71 – 80): Three words in bold letters are given in each question, which have something in common among themselves. Out of the four given alternatives, choose the most appropriate description about these three words.

Q71. Hamlet: Macbeth: Faustus
(a) They are princes
(b) They are plays by Shakespeare
(c) They are characters from various dramas
(d) They were romantic heroes.

Q72. Vesuvius: Etna: Kilimanjaro
(a) These are sites of volcanoes
(b) These are island countries.
(c) These are hills of Italy.

(d) These lie in polar region.

Q73. Knot: Watt: Fathom
(a) The terms are used by sailors
(b) The terms are used for installing electricity
(c) The terms are connected with rope
(d) They are units of measurement.

Q74. Barauni: Digboi: Ankleshwar
(a) They are famous for oil fields.
(b) They are famous for religious places.
(c) They are tourist places of South India.
(d) They are famous for handlooms.

Q75. Knight: Rook: Bishop
(a) These are missionaries
(b) They are churchmen.
(c) These are chessmen.
(d) These are ranks of military.

Q76. Abhi Bhattacharya: Utpal Dutt: Satyajit Ray
(a) They are character actors.
(b) They are directors of Bengali movies.
(c) They are famous poets and writers.
(d) These personalities belong to Bengal.

Q77. Voodoo: Sorcery: Necromancy
(a) They are ancient arts found in sculptures.
(b) They are terms connected with black magic.
(c) They are ancient scripts.
(d) They are means of communication of pre-historic age.

Q78. Rourkela: Bokaro: Durgapur
(a) They are steel plants.
(b) They have coal mines.
(c) They have atomic plants
(d) They are on the sea coast.

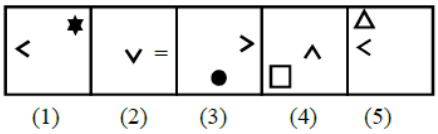
Q79. Spinach: Fenugreek: Celery

(a) These are cactus plants
(b) These are wild plants
(c) These are wild flowers.
(d) These are leafy vegetables.

Q80. Yeats: Ghalib: Kabir
(a) They were social reformers.
(b) They were famous poets.
(c) They were saints.
(d) They were yoga instructors

DIRECTIONS (Qs. 81 – 85): 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). You have to select one figure from the Answer figures which will continue the same series as given in the Problem figures.

Q81.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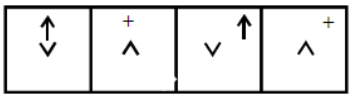
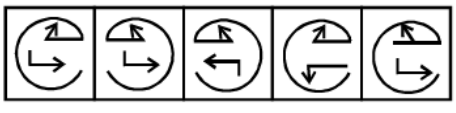

(a) (b) (c) (d)

Q82.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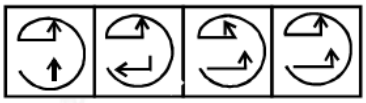
(a) (b) (c) (d)

Q83.

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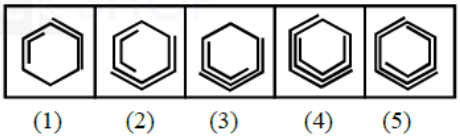

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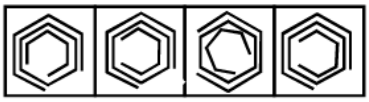
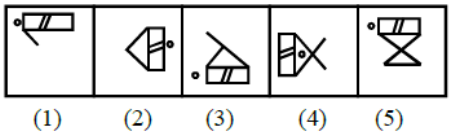


(a) (b) (c) (d)

Q84.



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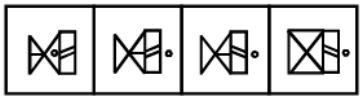
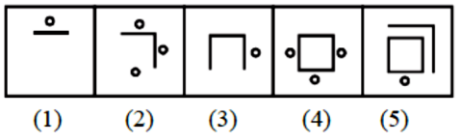


(a) (b) (c) (d)

Q85.



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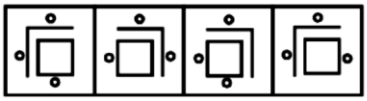

(a) (b) (c) (d)

DIRECTIONS (Qs. 86-90) : The following situations involve a cluster of three or more geometrical figures, having one or more dots placed at any point inside the cluster. This cluster is followed by a set of four alternative figures each composed of a cluster of the same type of figures. Now, for each dot we have to observe the region in which it is enclosed i.e. in which of the geometrical figure this region is common. From amongst the figures marked (a), (b), (c) and (d), select the figures which satisfies the same conditions of placement of the dot as in fig. (X).

Q86.

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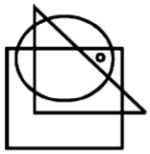
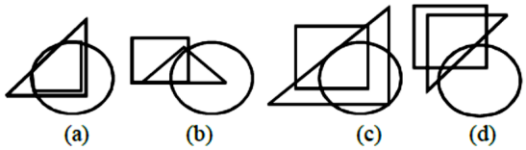
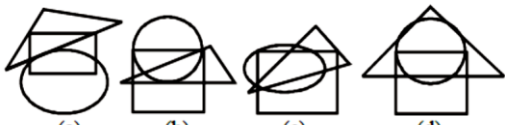

(X)

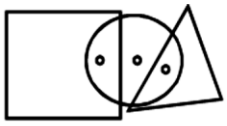

(a) (b) (c) (d)

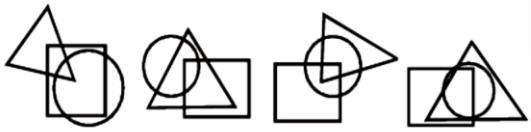
Q87.

(X)

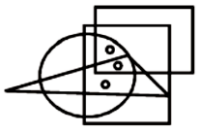

(a) (b) (c) (d)

Q88.


(X)


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

Q89.


(X)

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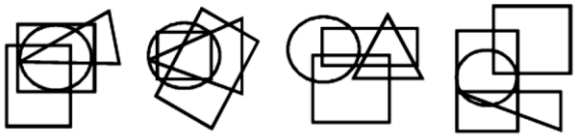
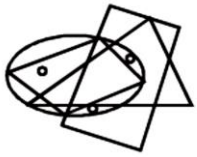
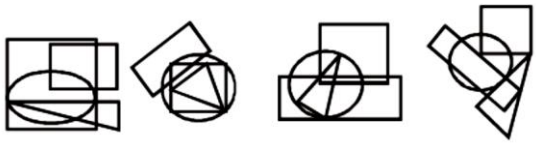


(a) (b) (c) (d)

Q90.



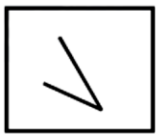
(X)



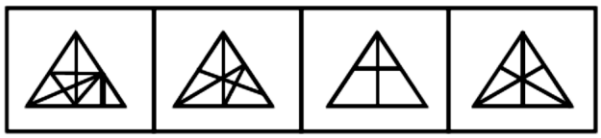
(a) (b) (c) (d)

DIRECTIONS (Qs. 91 to 95) : In this portion, a figure is given as an original figure (X) followed by four answer figures. 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 figure.

Q91.



(X)



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

Q92.

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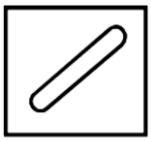
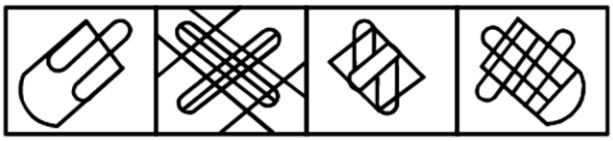
(X)

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

Q93.

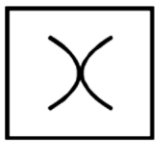


(X)

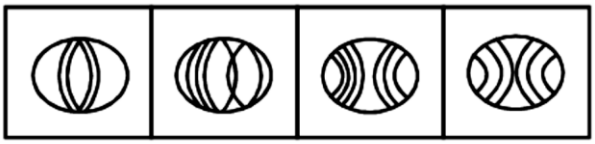


(a) (b) (c) (d)

Q94.



(X)



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

Q95.

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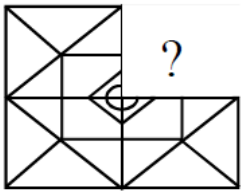
(X)

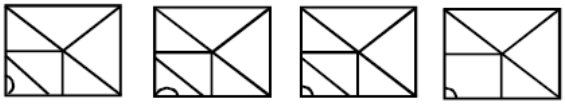
(a) (b) (c) (d)

DIRECTIONS (Qs. 96 -100) : In each of the following questions, a part of the figure is missing. Find out from the given option (a), (b), (c) or (d), the right figure to fit in the missing figure (X).

Q96.

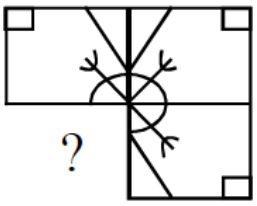


(X)

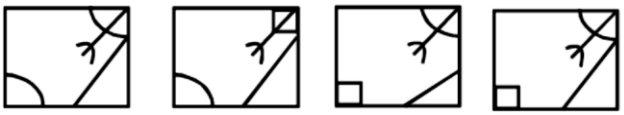


(a) (b) (c) (d)

Q97.



(X)



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

Q98.

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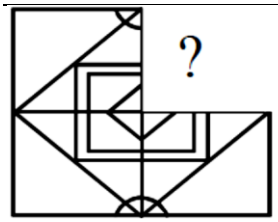
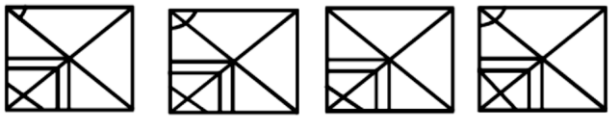
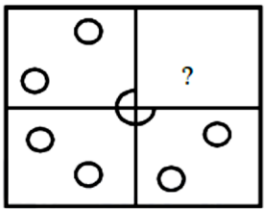


(X)

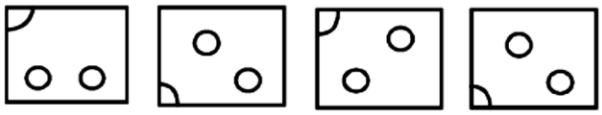


(a) (b) (c) (d)

Q99.

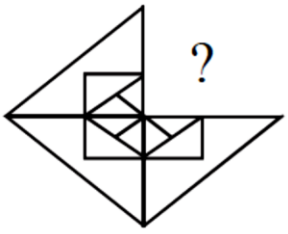


(X)

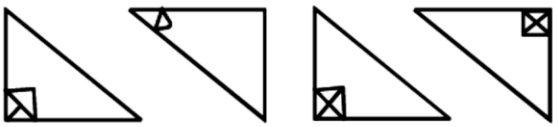


(a) (b) (c) (d)

Q100.



(X)



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

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