

## Indian Air Force AFCAT 2023 (Memory Based)

**Directions (1-3):** Read the following passage carefully and answer the question given below it.

Martin had many little tricks highly entertaining to his son. On an evening, returning from the market, he would buy a paper mask, the head of a hissing dragon. He would put it on and knock at the door. On opening the door, the boy would be terrified for a moment, but only for a moment, for he would soon remove it and the two would roll with laughter. Tom would, then, go out with the mask and knock at the door for his father to open. Martin had to act as if he was paralysed with fear.

**Q1.** Martin played his little tricks because

- (a) he was very much interested in them
- (b) he wanted to terrify his son
- (c) his son got pleasure from them
- (d) it was his habit to make tricks

**Q2.** Which of the following statements is the most appropriate description of the mask ?

- (a) It is a mask looking like a dragon with long tail and covering the whole body of Martin
- (b) It is a mask looking like the head of a dragon with its tongue hanging out
- (c) It is a mask looking like an animal with horns, wings and a pair of ferocious eyes emitting fire
- (d) It is a mask looking like the head of a king cobra

**Q3.** The father and son rolled with laughter after the

- (a) father put on the mask
- (b) opening of the door
- (c) son saw the mask
- (d) father removed the mask

**Directions (4-7):** Read the sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. Spot the error from the given options.

**Q4.** Employees are expected to (A)/ adhere the rules (B)/ laid down by the management. (C)/ No error. (D)

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

**Q5.** The owner of the horse (A)/ greedily ask (B)/ too high a price. (C)/ No error. (D)

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

**Q6.** I convinced (A)/ him to (B)/ see the play. (C)/ No error. (D)

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

**Q7.** Some man (A)/ are born (B)/ great. (C)/ No error. (D)

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

**Directions (8-11): Fill in the blank with the most appropriate word from the given options.**

**Q8.** He is not only talented \_\_\_\_\_ also very diligent.

- (a) and
- (b) but
- (c) yet
- (d) or

**Q9.** If she \_\_\_\_\_ the instructions carefully, she wouldn't have made a mistake.

- (a) follows
- (b) would follow
- (c) followed
- (d) had followed

**Q10.** He would rather you \_\_\_\_\_ not make so much noise.

- (a) will
- (b) would
- (c) did
- (d) were to

**Q11.** The book, \_\_\_\_\_ chapters are very long, is not an easy read.

- (a) who's
- (b) whose
- (c) which's
- (d) its

**Directions (12-16): In the following question, out of the given alternatives, choose the best one which expresses the meaning of the given word.**

**Q12. Sagacious**

- (a) Careless
- (b) Acute
- (c) Foolish
- (d) Clever

**Q13. Succulent**

- (a) Unjuicy
- (b) Dry
- (c) Unappetizing
- (d) Luscious

**Q14. Dignified**

- (a) Common
- (b) Distinguished
- (c) Informal
- (d) Ignoble

**Q15. Dexterous**

- (a) Awkward
- (b) Unable
- (c) Agile
- (d) Inept

**Q16. Dissonant**

- (a) Incongruous
- (b) Harmonious
- (c) Compatible
- (d) Similar

**Directions (17-21):** In the following question, out of the given alternatives, choose the best one which expresses the opposite of the given word.

**Q17. Delusional**

- (a) Deception.
- (b) Fantasy.
- (c) Hallucination
- (d) Honest

**Q18. Embellish**

- (a) Adorn
- (b) Fasten
- (c) Exaggerate
- (d) Disfigure

**Q19. CHEERFUL**

- (a) sad
- (b) happy
- (c) expensive
- (d) careless

**Q20. AFFLUENCE**

- (a) continuance
- (b) poverty
- (c) diffidence
- (d) insurance

**Q21. TIMID**

- (a) bold
- (b) bashful
- (c) nervous
- (d) soft

**Directions (22-24): The given idiom is followed by four meanings. Choose the one which best expresses the meaning of the given idiom.**

**Q22. Fly on the Wheels**

- (a) A person who overestimates their own influence
- (b) Too much consciousness about one's body
- (c) Two difficult alternatives
- (d) Something very expensive

**Q23. Ball is in your court.**

- (a) Be happy at the dance / ball room
- (b) It's up to you to make the decision
- (c) A very powerful person
- (d) Not speaking directly about an issue

**Q24. Best of both worlds.**

- (a) A happy person who is the best with all
- (b) All the advantages
- (c) To take on a task that is way too big
- (d) Someone whom everybody likes

**Directions (25-27): The following question, consists of an incomplete sentence or a sentence which is split into four parts. All four parts are jumbled up and are named as P, Q, R and S. These four parts are not given in their proper order. Arrange the jumbled parts of the sentence and find out which of the four combinations from the given options will correctly complete the sentence.**

**Q25.** can spend several years in universities (p)/ without substantial meals so that (Q)/ a lot of young persons (R)/ There must be countries now in which peasants are going (S)

- (a) SRQP
- (b) PQRS
- (c) SQRP
- (d) QPSR

**Q26.** it was also (p)/ the first democracy in the world (Q)/ Athens was not only (R)/ an almost perfect democracy (S)

- (a) RSPQ
- (b) PQRS
- (c) RQPS
- (d) QPSR

**Q27.** but checking it is not going to be easy (p)/ The practice of taking performance—boosting drugs among athletes is generally conceded to be unfair (Q)/ of the detection technology (R)/ for the user is generally one jump ahead (S)

- (a) RSPQ
- (b) QPSR
- (c) QPRS
- (d) PQRS

**Directions (28-30):** In the following question a sentence or a phrase is given which can be substituted by one word. Choose the most appropriate word explaining the sentence or the phrase from the given option.

**Q28.** A word that is spelled the same way forwards and backwards

- (a) Synonym
- (b) Palindrome
- (c) Homonym
- (d) Antonym

**Q29.** A person who is new to a field or activity

- (a) Veteran
- (b) Novice
- (c) Expert
- (d) Specialist

**Q30.** "The use of more words than necessary to express an idea"

- (a) Conciseness
- (b) Eloquence
- (c) Verbosity
- (d) Clarity

**Q31.** Where is the World's longest Suspension Bridge?

- (a) Czech Republic
- (b) Australia
- (c) Austria
- (d) USA

**Q32.** Which aircraft was used in Operation Ganga by IAF in Ukraine?

- (a) Antonov An-32
- (b) Hawker Siddeley HS 748
- (c) C17 Globemaster
- (d) Dornier Do 228

**Q33.** Which is the helicopter launched Antitank missile? –

- (a) HAL HTT-40
- (b) Helina
- (c) Pilatus PC-7
- (d) HAL Kiran

**Q34.** Pooja Patel is associated with which game?

- (a) Hockey
- (b) Cricket
- (c) Yogasana
- (d) Kabbadi

**Q35.** Salim Ali National Park is in which state?

- (a) Jammu and Kashmir
- (b) Assam
- (c) Bihar
- (d) Jharkhand

**Q36.** Which one of the following is the ore of Lead ?

- (a) Bauxite
- (b) Galena
- (c) hematite
- (d) cinnabar

**Q37.** Who is the 50th Chief Justice of India?

- (a) Uday Umesh Lalit
- (b) Nuthalapati Venkata Ramana
- (c) Dhananjaya Yeshwant Chandrachud
- (d) Ranjan Gogoi

**Q38.** Which Instrument is used to measure the Blood Pressure

- (a) thermometer
- (b) speedometer
- (c) Stethoscope
- (d) sphygmomanometer

**Q39.** Which Prime Minister of India imposed President Rule for more number of times—

- (a) Jawahar Lal Nehru
- (b) Lal Bahadur Shastri
- (c) N. D. Deva Gowda
- (d) Indira Gandhi

**Q40.** The Booker Prize 2022 was given to?

- (a) Damon Galgut
- (b) Margaret Atwood
- (c) Shehan Karunatilak
- (d) Douglas Stuart

**Q41.** What is Article 56?

- (a) Term of office of Governor
- (b) Term of office of President
- (c) Qualification of President
- (d) Election process of President

**Q42.** Who won FIFA Golden Award Boot?

- (a) Lionel Messi
- (b) Kylian Mbappe
- (c) Cristiano Ronaldo
- (d) Sunil Chhetri

**Q43.** In which Year Sepoy Mutiny at Barrackpore happened? – 1824.

- (a) 1830
- (b) 1850
- (c) 1857
- (d) 1824

**Q44.** Who won the women's singles tennis title at the 2023 Australian Open?

- (a) Elena Rybakina
- (b) Aryna Sabalenka
- (c) Iga Świątek
- (d) Naomi Osaka

**Q45.** What was the theme of World Science Day 2022?

- (a) Integrated Approach in S&T for Sustainable Future
- (b) Science for and with Society in dealing with the global pandemic
- (c) Global Science for Global Wellbeing
- (d) Basic Sciences for Sustainable Development

**Q46.** ASTRA Missile is all weather beyond-visual-range \_\_\_\_\_ missile, developed by the Defence Research and Development Organisation.

- (a) air-to-air
- (b) surface- to-air
- (c) surface- to- surface
- (d) surface- to-water

**Q47.** What was India's rank at Common Wealth Games?

- (a) fifth
- (b) Third
- (c) fourth
- (d) second

**Q48.** Who is regarded as Guardian of Fundamental Right?

- (a) President
- (b) Supreme Court
- (c) Prime Minister
- (d) Governor

**Q49.** Huosong 18 Missile belongs to which country?

- (a) North Korea
- (b) South Korea
- (c) Japan
- (d) China

**Q50.** The 'Udyam Abhilasha' Scheme is launched by?

- (a) SIDBI
- (b) RBI
- (c) SEBI
- (d) Planning Commission

**Q51.** Who said, "Patriotism is religion and religion is love for India"?

- (a) Dadabhai Naoroji
- (b) Subhas Chandra Bose
- (c) Womesh Chandra Bonnerjee
- (d) Bankim Chandra Chatterjee

**Q52.** Which among the following is not neighboring state of Assam?

- (a) Meghalaya
- (b) West Bengal
- (c) Sikkim
- (d) Mizoram



**Q53.** Which among the following is correct about Escape Velocity?

- (a) Escape velocity is defined as the speed at which an object travels to break free from planet
- (b) On the surface of the Earth, the escape velocity is about 11.2 km/s
- (c) On the surface of the Earth, the escape velocity is about 10.2 km/s
- (d) Both a and b

**Q54.** What is OPEC Stands for?

- (a) Organization of the Petroleum Exporting Countries
- (b) Organization of the Petro-chemical Exporting Countries
- (c) Organization of the Petroleum Excess Countries
- (d) Organization of the Petro-chemical Excess Countries

**Q55.** Which among the following is correct about Cathode Rays?

- (a) Cathode rays played an important role in discovery of electrons.
- (b) The cathode rays consist of negatively charged particles known as electrons.
- (c) Cathode rays can ionize gases and pass through metal foils.
- (d) All of these

**Q56.** The Difference between C.I and S.I on Rs. 1200 for one year at 10% per annum calculated half yearly is?

- (a) 2 Rs
- (b) 4 Rs
- (c) 3 Rs
- (d) 5 Rs

**Q57.** The angle between hour and minute hand of a clock at 8.30?

- (a) 90 Degree
- (b) 75 Degree
- (c) 80 Degree
- (d) 60 Degree

**Q58.** The probability of taking a red king from pack of 52 cards is.

- (a)  $\frac{1}{13}$
- (b)  $\frac{1}{52}$
- (c)  $\frac{2}{13}$
- (d)  $\frac{1}{26}$

**Q59.** In a box carrying one dozen of oranges, one third have become bad. If 3 oranges are taken out from the box at random, what is the probability that at least one oranges out of the three oranges picked up is good ?

- (a)  $\frac{52}{55}$
- (b)  $\frac{50}{51}$
- (c)  $\frac{54}{55}$
- (d)  $\frac{51}{55}$

**Q60.** The cost of fencing of a square field with rate of Rs 20 per metre is Rs 10080. How much will it cost to lay a three metre wide pavement along the fencing inside the field at rate of Rs 50 per sq metre?

- (a) 73800Rs
- (b) 73200Rs
- (c) 73500Rs
- (d) 73000Rs

**Q61.** In how many years a sum of Rs 3000 will yield an interest of Rs 1080 at 12% per annum simple interest?

- (a) 2 yrs
- (b) 4 yrs
- (c) 3 yrs
- (d) 5 yrs

**Q62.** The difference between the compound interest and the simple interest on a certain sum at 5% per annum for 2 yrs is Rs 4.5. The sum is

- (a) Rs 2400
- (b) Rs 1800
- (c) Rs 1500
- (d) Rs 2000

**Q63.** Two articles are sold at the same price 1<sup>st</sup> was sold at profit of 37.5% and 2<sup>nd</sup> was sold at a loss of 8.33% If there is total profit of Rs. 8634, then find their selling price (individual)?

- (a) Rs. 43170
- (b) Rs. 86340
- (c) Rs. 47487
- (d) Rs. 34537

**Q64.** For a New Year party, 30 whisky bottles are required. How many whisky bottles will be required to the same party if the quantity of whisky in each bottle is reduced to  $\frac{7}{10}$  th of its present?

- (a) 10.07
- (b) 35
- (c) 62.5
- (d) 42.85

**Q65.** The length of the platform, which a train 180 m long and travelling at 51 km/hr can cross in 36 seconds is

- (a) 330 m
- (b) 225 m
- (c) 250 m
- (d) 300 m

**Q66.** The average of 50 numbers is 40. The average of these 50 numbers and 5 others new number is 45. The average of the five new numbers is.

- (a) 85
- (b) 95
- (c) 75
- (d) 65

**Q67.** The population of a town in the year 2002 was 4 lakhs. The people start shifting from there to other town at the rate of 5% per year, then what will be population in 2005.

- (a) 342950
- (b) 324590
- (c) 426390
- (d) 426930

**Q68.** The average marks in English of two sections A and B of class X in the annual examination is 75. The average marks of section A is 78.5 and that of section B is 71. The ratio of the number of students of sections A and B is

- (a) 8 : 7
- (b) 7 : 5
- (c) 7 : 8
- (d) 8 : 5

**Q69.** In a factory 60% of the workers are above 30 years and of these 75% are males and the rest are females. If there are 1350 male workers above 30 years, the total numbers of workers in the factory are

- (a) 3000
- (b) 1800
- (c) 2200
- (d) 1500

**Q70.** The speed of a pipe is thrice the speed of the other pipe. If both working together can fill a tank in 36 minutes, then how much time will slower pipe take to fill it?

- (a) 120 min
- (b) 144 min
- (c) 154 min
- (d) 136 min

**Q71.** A grinder was marked at Rs 3600. After given a discount of 10% the dealer made a profit of 8%. Calculate the cost price.

- (a) Rs 3000
- (b) Rs 3200
- (c) Rs 2800
- (d) Rs 3150

**Q72.** Arun is thrice as efficient as Sunil and is therefore able to finish a piece of work in 60 days less than Sunil. Arun and Sunil can individually complete the work respectively in.

- (a) 20 and 80 days
- (b) 40 and 100 days
- (c) 25 and 85 days
- (d) 30 and 90 days

**Q73.** If 72 workers can build a wall of 280 m length in 21 days. How many workers could take 18 days to build a similar type of wall of length 100 m?

- (a) 25
- (b) 32
- (c) 30
- (d) 40

**Q74.** An express train travelling at 48 km/hr crosses another train, having half its length and travelling in opposite direction at 42 km/h. in 12 seconds. It also passes a railway platform in 45 seconds. The length of railway platform is.

- (a) 400 m
- (b) 500 m
- (c) 450 m
- (d) 600 m

**Q75.** A man covers half of his journey at 6 km/hr and the remaining at 3 km/hr. His average speed is

- (a) 4.5 km/hr
- (b) 4 km/hr
- (c) 5 km/hr
- (d) 3.5 km/hr

**Q76.** In each of the following questions, find out the alternative which will replace the question mark.

Lotus Temple : Delhi :: ? : ?

- (a) Jama Masjid : Patna
- (b) Hawa Mahal : Kolkata
- (c) Char Minar : Hyderabad
- (d) Amarnath Cave : Ahmedabad

**Q77.** In each of the following questions, four words have been given out of which three are alike in same manner, while the fourth one is different. Choose the word which is different from the rest.

- (a) Slip
- (b) Diamond
- (c) Googli
- (d) Doosra

**Q78.** In each of the following questions, four words have been given out of which three are alike in same manner, while the fourth one is different. Choose the word which is different from the rest.

- (a) Peso
- (b) Drachma
- (c) Shora
- (d) Baht

**Q79.** Akshar remembers that the match is after 26th April but before 30th April, while Suresh remembers that the match is after 22nd April but before 28th April. On which date of April is the match?

- (a) 29
- (b) 26
- (c) 27
- (d) 28

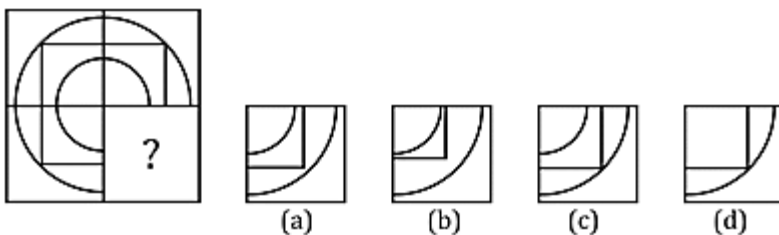
**Q80.** Golu is the son of Bhola ; Surma is the daughter of Golu; Chunni is the daughter of Dabu and Dabu is a brother of Bhola. What is the relation of Chunni to Surma?

- (a) Niece
- (b) Aunt
- (c) Cousin
- (d) Mother

**Q81.** Two taxis T and U start from the same stand. Taxi T travels 1 km South, then turns to its right and travels a further 3.5 km. Meanwhile taxi U travels 2.5 km East, then turns North and travels 4 km, then it turns to its left and travels 6 km. Where is taxi U with respect to taxi T ?

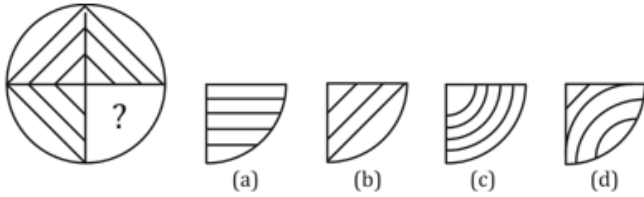
- (a) 3 km North
- (b) 5 km South
- (c) 5 km North
- (d) 3 km South

**Q82.** 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.



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

**Q83.** 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.



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

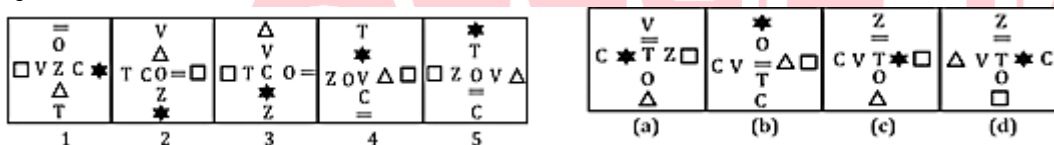
**Directions (84-85):** Each of the following questions consists of five figures marked 1, 2, 3, 4 and 5 called the problem figures followed by four other figures marked a, b, c and d called the Answer figures. Select a figure from amongst the Answer figures which will continue the same series as established by the five figures.

**Q84.**



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

**Q85.**



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

**Q86.** If “÷” mean “divided by”, “+” means “multiplied by”, “÷” means “added to”, “×” means “subtracted from”, then  $11 \div 6 - 2 + 5 \times 3 = ?$

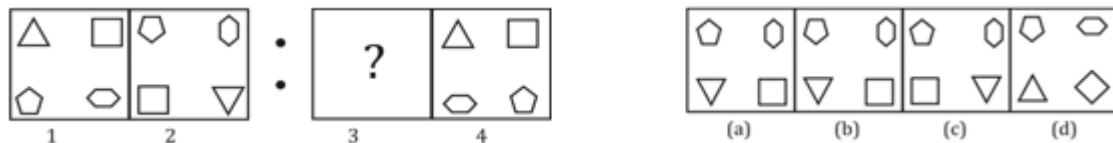
- (a) 17
- (b) 21
- (c) 23
- (d) 26

**Q87.** Rakhi got engaged 10 yr ago. Rakhi's present age is  $\frac{5}{3}$  of her age at the time of engagement. If the present age of Rakhi's mother is twice that of present age of Rakhi, then what was her mother's age (in yr) at the time of her engagement?

- (a) 50
- (b) 40
- (c) 30
- (d) 60

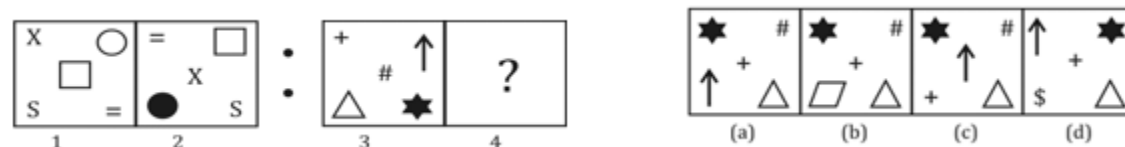
**Directions (88-89):** Each of the following questions consists of two sets of figures. Figures 1, 2, 3 and 4 constitute the problem set while figure a, b, c and d constitute the Answer set. There is a definite relationship between figures (1) and (2). Establish a similar relationship between figures (3) and (4) by selecting a suitable figure from the answer set that would replace the question mark (?) in fig. (4)

**Q88.**



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

**Q89.**



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

**Q90.** If CHANTED is coded as ZEXKQBA, then how will MAY be coded as?

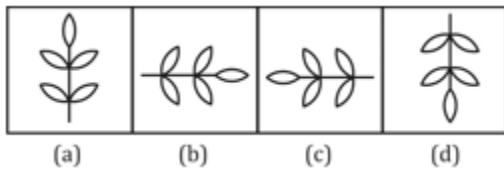
- (a) XIG
- (b) JXV
- (c) OBI
- (d) XAV

**Q91.** In a certain code language, "NIGHT" is written as "ODDGM" and "DARK" is written as "GOYC". How is "GREEN" written in that code language?

- (a) IABPF
- (b) MCBNB
- (c) OGHVL
- (d) FPBAI

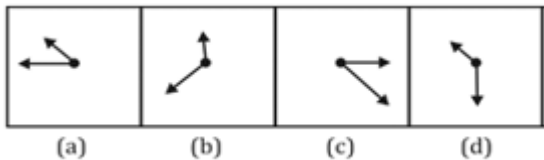
**Directions (92-93):** In each problem, out of the four figures marked (A) (B) (C) and (D) three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.

**Q92.**



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

**Q93.**



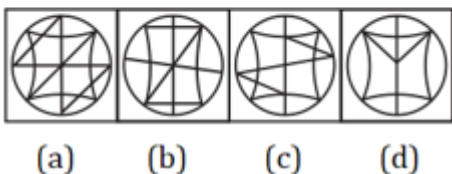
- (a) a
- (b) b
- (c) c
- (d) d

**Directions (94-95):** From the given answer figures, select the one in which the question figure is hidden/embedded.

**Q94. Question Figure**



**Answer Figures**



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



**Q95. Question Figure**



**Answer Figures**

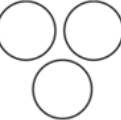

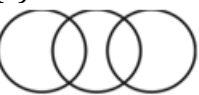
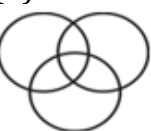


(a) (b) (c) (d)


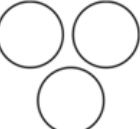
- (a) a
- (b) b
- (c) c
- (d) d

**Directions (96-98):** 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.

**Q96.** Which of the following diagrams indicates the best relation between Granite, Tree and Water?

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

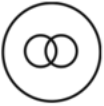
**Q97.** Which of the following diagrams indicates the best relation between Books, Novels and Dictionaries?

- (a) 
- (b) 

(c)

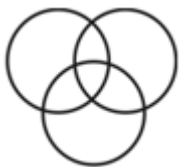


(d)

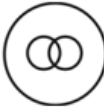


**Q98.** Which of the following diagrams indicates the best relation between Athletes, Sprinter and Marathon runners?

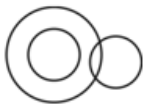
(a)



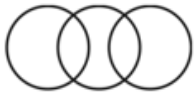
(b)



(c)

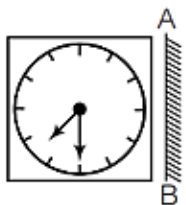


(d)

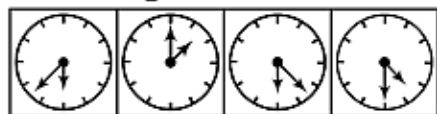


**Q99.** If a mirror is placed on the line AB, then which of the answer figure is the right image of the given figure?

**Question Figure**



**Answer Figures**



(a)

(b)

(c)

(d)

(a) a

(b) b

(c) c

(d) d

**Q100.** In each of the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements.

**Statements**

1. Some pens are pencils.
2. All pencils are erasers.

**Conclusions**

- I. Some pencils are not pens.
  - II. Some erasers are not pens.
- (a) Only conclusion I follows  
(b) Only conclusion II follows  
(c) Neither conclusion I nor conclusion II follows  
(d) Both conclusions follow

