

# **AIR FORCE COMMON ADMISSION TEST (AFCAT)**

## **SCHEME OF SYLLABUS & EXAMPLE OF QUESTIONS**

The scheme of syllabus and examples of questions are given in the following paragraphs:-

### **SCHEME OF SYLLABUS**

1. The AFCAT Question Paper will have 100 questions. All questions will be of three marks each. For every correct answer the candidate will get three marks and for every wrong answer one mark will be deducted under negative marking. The total time allotted for the paper is two hours.
2. Each Question Paper will have questions from the following topics:-

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- (a) General Awareness – History, Sports, Geography, Environment, Civics, Basic Science, Defence, Art, Culture, Current Affairs, Politics etc.
  - (b) Verbal Ability in English – Comprehension, Error Detection, Sentence Completion, Synonyms, Antonyms and Testing of Vocabulary.
  - (c) Numerical Ability – Decimal Fraction, Simplification, Average, Profit & loss, Percentage, Ratio & Proportion and Simple interest.
  - (d) Reasoning and Military Aptitude Test – Verbal Skills and Spatial Ability.
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### **EXAMPLES OF QUESTIONS**

**Read the following passage carefully and answer the questions given below it.**

The awareness of equal corruption will be a better emotional basis for the so-called multi-racial commonwealth, of which much is made, than its professed principle-the pursuit of common aims in world politics, aims which are so rarefied that a large volume of artificial political oxygen is needed to keep that body-politic breathing. After all, it cannot be denied that even the United States and the Soviet Union are pursuing common aims in world affairs, such as peace, disarmament, democracy, technological progress, as well as freedom as understood by each. But that is not preventing them from doing things which might lead to the destruction or near destruction of mankind. Thus, common aims would seem to be very undependable as guarantees for goodwill and co-operation among nations. On the contrary, a frank admission of being equal sinners would at least encourage charity and discourage moral arrogance. That would be a better foundation for integration for international and multi-racial co-operation.

- Q1. The Commonwealth is characterised by
- (a) the failure of the constituents to work for the same goals
  - (b) the racial nature of its membership
  - (c) uniform lack of moral standards
  - (d) constant redefining of objectives
- Q2. The super powers may claim to have the same laudable objectives, but these
- (a) do not work earnestly to achieve them
  - (b) undo each other's efforts
  - (c) still act against the interest of mankind
  - (d) do not see them in the right perspective

- Q3. Common goals are desirable, but these  
 (a) do not ensure international co-operation  
 (b) lead to unnecessary tensions  
 (c) encourage rivalry between super powers  
 (d) lead to destruction of mankind
- Q4. International co-operation can come about if  
 (a) nations become aware of their own failings and discard pride  
 (b) charitable organizations are encouraged  
 (c) different races are treated on the basis of equality  
 (d) nations guilty of immoral actions are exposed
- Q5. The thrust of the author's argument is that  
 (a) the Commonwealth has outlived its utility  
 (b) membership of the Commonwealth be restricted to the super powers  
 (c) members are equally responsible for the present state of world politics  
 (d) international peace and co-operation are unattainable.

**In each of the following questions, find out which part of the sentence has an error. If there is no mistake, the answer is (d) "No error".**

- Q1 He charged me (a)/one hundred rupees for five dozens(b)/oranges of average quality (c). No error (d).  
 (a) (b) (c) (d)
- Q2. Raju and his friend (a) /were going to see a picture(b) /when they met his common friend (c). No error (d).  
 (a) (b) (c) (d)
- Q3. Until you come(a)/ to class regularly (b)/you will fail (c). No error (d)  
 (a) (b) (c) (d)
- Q4. My father is (a)/ in bad mood (b)/ today(c). No error (d)  
 (a) (b) (c) (d)
- Q5. If I was you (a)/ I would not have(b)/ committed this blunder(c). No error(d).  
 (a) (b) (c) (d)

**Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.**

- Q1. Everyone was \_\_\_\_\_ by surprise when she announced her plan to marry that man.  
 (a) moved (b) shaken (c) taken (d) disturbed
- Q2. She always insisted on the need to \_\_\_\_\_ between ends and means.  
 (a) analyse (b) define (c) distribute (d) distinguish
- Q3. He \_\_\_\_\_ that he would come.  
 (a) requested (b) said (c) pleaded (d) urged
- Q4. He had good \_\_\_\_\_ over the ancient languages, too.  
 (a) authority (b) knowledge (c) command (d) expertise
- Q5. Around the head of the running man there was a \_\_\_\_\_ of bees.  
 (a) crowd (b) group (c) flock (d) swarm

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

- Q1. UNDULATE  
(a) retard (b) decrease (c) wave (d) flood
- Q2. MYOPIC  
(a) blind (b) astigmatic (c) cross-eyed (d) short-sighted
- Q3. ERUDITE  
(a) strong (b) precious (c) learned (d) courteous

**Pick out the word that is most nearly the opposite in meaning to the word given in capitals.**

- Q1. RELINQUISH  
(a) accept (b) retain (c) gain (d) revive
- Q2. TURBULENT  
(a) turbid (b) violent (c) steady (d) turgid
- Q3. ERRATIC  
(a) regular (b) right (c) free (d) rapid

**Choose the correct answer.**

**General Awareness**

- Q.1 Name the first person who went in the space  
(a) Yuri Gangarin (b) Neil Armstrong  
(c) Rakesh Sharma (d) John Glenn
- Q2. The first Indian woman who won a medal in Olympic is-  
(a) PT Usha (b) Shiny Abraham  
(c) Dala Banerjee (d) Karram Malleswari
- Q3. The cricketer who scored the first double century in one day cricket match is-  
(a) Vivian Richards (b) Brian Lara  
(c) Ricky Ponting (d) Sachin Tendulkar
- Q4. Lionel Messy is associated with the game of—  
(a) Rugby (b) Tennis (c) Football (d) Basketball
- Q5. The instrument of measuring intensity of earthquakes is called-  
(a) Ediograph (b) Pantagraph (c) Ergograph (d) Seismograph

**Numerical Ability**

- Q1. When simplified  $(2.43 \times 2.43 + 2.43 \times 7.57 \times 2 + 7.57 \times 7.57)$  is equal to-  
(a) 10 (b) 100 (c) 101.89 (d) 200.59
- Q2. The sum of ₹ 6.25 is made up of 80 coins which is either ten paise and five paise. The number of five paise coins are-  
(a) 25 (b) 35 (c) 40 (d) 45

Q3. Three years ago the average age of A & B was 18 years. With C joining them now, the average age becomes 22 years. How old is she?

- (a) 24 years (b) 27 years (c) 28 years (d) 30 years

Q4. The average age of 8 men is increased by 2 years when two of them whose ages are 21 years and 23 years are replaced by two new men. The average age of the two new men is-

- (a) 22 years (b) 24 years (c) 28 years (d) 30 years

Q5. Amit sold an umbrella for ₹ 680, losing 15%. The cost price of the umbrella is-

- (a) ₹ 782 (b) ₹ 800 (c) ₹ 578 (d) None of these

### **Reasoning and Aptitude Tests**

This is a test of your ability to understand words. For each question in the test there are four possible answers: A, B, C, or D. There is only one correct answer for each question. Read each question carefully and decide which one of the four answers is the best one. Mark your answer on the answer sheet by blacking out the letter that corresponds to your choice.

Now look at the example questions below:

Q1. MAN is to BOY as WOMAN is to

- (A) BABY  
(B) BRIDE  
(C) CHILD  
(D) GIRL

Answer - D

Q2. WATER is to THIRST as FOOD is to

- (A) FAMINE  
(B) GRIEF  
(C) HUNGER  
(D) INDIGESTION

Answer - C

In these questions, choose the word from the four alternatives (1), (2), (3) and (4) that is most nearly similar in meaning to the word given in CAPITAL letters.

Q1. REVULSION

- (1) Apathy (2) Violence  
(3) Disgust (4) Avenge

Answer - 3

### **Analogy**

In the following questions there is a pair of capitalized words followed by four choices marked A, B, C, D. Choose the pair of words whose relationship is most similar to that expressed by the capitalized pair, and mark your choice on your answer sheet.

Q1. COLD : HOT

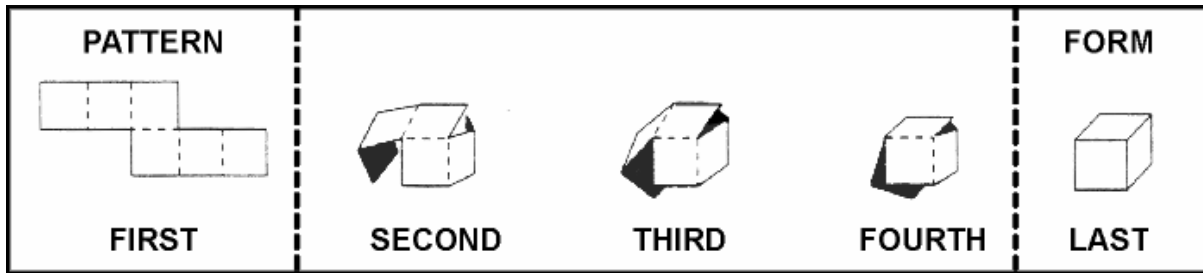
- A handsome : young  
C summer : spring

- B beautiful : ugly  
D complete : total

Answer - B

## Spatial Ability

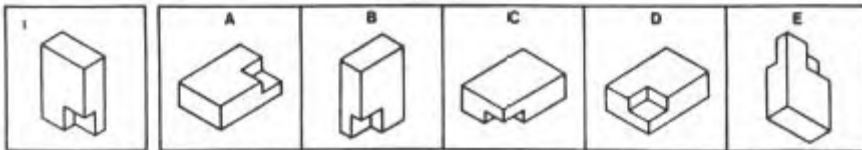
This is a test of your ability to recognize a form from its pattern, or a pattern from its form. Now look at the example questions below. There is a problem you are to find the form that can be made by folding the cardboard pattern and fitting it together.



**Answer - Last**

## ROTATED BLOCKS

This subtest is designed to test your ability to visualize and manipulate objects in space. In each question, you will be shown a picture of a block. To the right of the pictured block are five choices, each showing a different block. You are required to select the choice containing a block that is just like the pictured block at the left although turned in a different position. In order to arrive at the correct answer, you may have to mentally turn blocks over, turn them around, or turn them both over and around.

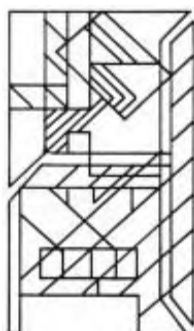
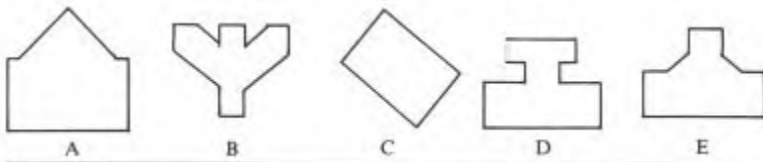


**The correct answer is D.**

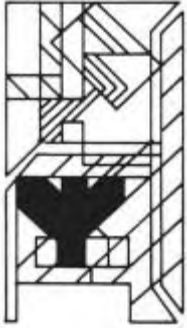
## HIDDEN FIGURES

This test is designed to measure your ability to see simple figures in complex drawings. Although these figures are fairly well camouflaged, proper visualization should enable you to discern them without too much difficulty.

At the top of each section of this subtest are five figures lettered A, B, C, D, and E. Below these on each page are several numbered drawings. You must determine which lettered figure is contained in each of the numbered drawings.



The correct answer is (B).



### Problem Solving

Q1. What number should come next in the sequence?

3 6 12 24 48

Answer = 96 (progressions are doubling each time)

Q2. Empty is to full as wet is to?

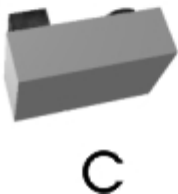
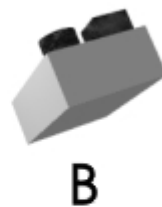
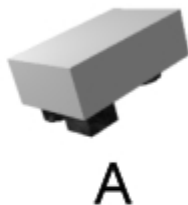
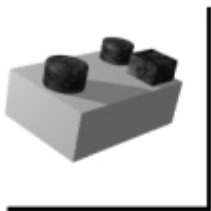
a. damp b. soaked c. dry d. water e. rain

Answer = c. dry

### **Rotated Blocks**

In the Block Rotation subtest, you will see blocks of different shapes, with cubes, cylinders, and other objects on them. In the examples below, you see six images. The image in the upper left-hand corner shows the model block. One of the five images labeled A through E also shows the model block, but rotated in space. The remaining images show a different block, rotated to various positions in space. Your task is to choose from the images labeled A through E the image that shows the model block rotated in space.

### **Item 1: Block Rotation**



Item 1=A