



# Officer Intelligence Rating Test

Verbal and Non-Verbal  
Questions

Solved Papers  
eBook Part 1



# What is Officer Intelligence Rating Test

Aspirants who have cleared their Indian Armed Forces entry written exams are then called for service selection board SSB interview.

On day 1 of SSB interview candidates have to face the screening test, two rounds are conducted under this – first **officer intelligence rating test** also known as **OIR test** and second is PPDT (picture perception and description test). Merit is created on the basis of candidate's performance in both the tests. We can say that the first test conducted in SSB interview is Officer Intelligence Rating Test, OIR test is a written exam consisting of 54-55 questions consisting simple linguistic, logical, analytical, and mathematical questions to test the common sense of the candidates.

## Officer Intelligence Rating Test Syllabus

Officer Intelligence Rating Test consists of two sections Verbal and Non-verbal:

- **Verbal section** in Officer Intelligence Rating Test consists of questions based on topics such as: Relationship, Jumbled words, Coding/Decoding, Multiple choice question, Antonym and synonym, reconstruction of sentence, one word substitution, Odd one out, common sense and alphabet test, Arithmetic questions.
- **Non-verbal section** in Officer Intelligence Rating Test consist of questions based on topics such as: Which figure is different from the other, Completion of series, Locate the concealed figure, Fill in the correct figure.

## General instructions for the test :

1. OIR test will have two different booklets with 50-60 questions in each one.
2. Total time given for the OIR test is 30 minutes for each booklet.
3. Before the actual test, there will be a practice test to make you aware for the type of questions.
4. You have to mark the answers in the answer sheet only, do not mark anything on the question booklet.
5. There is no negative marking, attempt all questions.
6. Do no waste time on a difficult question and attempt as many as you can in the given time.
7. Do not wear a watch and do not carry any other electronic items inside the testing hall.
8. Usage of cell phones, calculators etc. is not allowed.
9. The questions are provided in a question booklet that you will return at the end of test.
10. No markings should be made on the question paper booklet.
11. The margin space provided in the answer sheet can be used for rough work.
12. Once the OIR test is done focus on the PPDT and do not think about your performance in the OIR test.

## Find Missing Numbers

1) 1, 3, 5, 7, ?

- a. 8
- b. 9
- c. 10
- d. 11

Answer (b)

(9)- Progression of odd numbers.

2) 2, 5, 9, 14, ?

- a. 16
- b. 18
- c. 20
- d. 22

Answer (c)

(20): the difference between the first two numbers is 3. The difference between the third and fourth number is 5, so that 6 must be the difference between the fourth and fifth number, 14 plus 6 = 20.

3) 10, 5, 8, 4, 6, ?

- a. 1
- b. 3
- c. 2
- d. 7

Answer (b)

(3): divide the sequence into sets of two numbers. The second number is one-half of the first number.

4) 3, 3, 9, 8, 4, 4, 16, 15, 5, 5, 25, ?

- a. 24
- b. 16
- c. 20
- d. 21

Answer (a)

(24): divide numbers into groups of four. Multiply the first number and the second number to get the third number and then subtract one from the third number to the fourth number.

- 5) Look at this series: 40, 40, 47, 47, 54, . . . What number should come next?
- a. 40
  - b. 44
  - c. 54
  - d. 61

Answer: c.

This is an alternation with repetition series in which each number repeats itself and then increases by 7.

- 6) Look at this series: 8, 43, 11, 41, \_\_, 39, 17, . . . What number should fill in the blank?
- a. 8
  - b. 14
  - c. 43
  - d. 44

Answer: (b)

This is a simple alternating addition and subtraction series. The first series begins with 8 and adds 3; the second begins with 43 and subtracts 2.

- 7) Look at this series: V, VIII, XI, XIV, \_\_, XX, . . . What number should fill the blank?
- a. IX
  - b. XXIII
  - c. XV
  - d. XVII

Answer: (d)

This is a simple addition series; each number is 3 more than the previous number.

# Coding and Decoding

8) If MADRAS can be written as ARSARS, how can ARKONAM be written in that code?

- a. ROAAKNM
- b. ROAKANM
- c. ROAKNNM
- d. ROKANAM
- e. ROANKNM

Answer: (a)

Sol: The word is first written twice and the letters at the even positions in the word so obtained from the code.

9) If in a certain language FASHION is coded as FOIHSAN, how is PROBLEM coded in that code?

- a. PELBROM
- b. PRBOELM
- c. PELBORM
- d. RPBOELM
- e. ROBLEMP

Answer: (c)

Sol: The first and the last letters of the word remain as such and the remaining letters are written in a reverse order, to obtain the code.

10) If BOMBAY is written as MYMYMY, how will TAMIL NADU be written in that code?

- a. TIATIATIA
- b. IATIATIAT
- c. MNUMNUMNU
- d. ALDALDALD
- e. None of these

Answer: (c)

Sol: The letters at the third and sixth places are repeated thrice to code BOMBAY as MYMYMY. Similarly, the letters at the third, sixth and ninth places are repeated thrice to code TAMIL NADU as MNUMNUMNU.

## Which word will come last in the dictionary?

11)

- Adore
- Agent
- Alert
- Alike

Answer: Alike

12)

- Boost
- Bout
- Box
- Brick

Answer: Box

13)

- Gram
- Grasp
- Graze
- Grey

Answer: Grey

14)

- Hiccup
- High
- Hike
- Hiss

Answer: Hiss

15)

- Union
- Unique
- Unit
- Update

Answer: Update

Write the last alphabet of the word which comes last in the dictionary.

16)

- Guide
- Gulp
- Gym
- Hail

Answer: l

17)

- Half
- Hand
- Handy
- Hard

Answer: d

18)

- Impair
- Imply
- Imprint
- Inch

Answer: h



19)

- Jam
- Japanese
- Jar
- Jog

Answer: r

20)

- Kiss
- Kit
- Kite
- Knack

Answer: k

Write the last digit of the smallest number from the following given

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21)

1. 7547,
2. 5792,
3. 7203,
4. 5934

Answer: 2

22)

1. 467922,
2. 46 8910,
3. 461093,
4. 497252

Answer: 3

23)

1. 95278,
2. 95231,
3. 95715,
4. 95700

Answer: 1

24)

1. 82348,
2. 81937,
3. 80972,
4. 80168

Answer: 8

25)

1. 64789,
2. 197283,
3. 9862,
4. 87252

Answer: 2

26)

1. 5492888,
2. 9137584,
3. 5492868,
4. 918364

Answer: 8

Rearrange the following underline word to make a word and write the last letter of the correct word.

27) Rapnk is a practical joke or mischievous act.

Answer: Prank

28) Olrepda has black spots on its body

Answer: Leopard

29) Eacpcko is a bird known for its beautiful feathers

Answer: Peacock

30) Arleka is an Indian state

Answer: Kerala

31) A Seeiasd is an abnormal condition affecting the body of an organism.

Answer: Disease

32) Onygxe is an important part of the atmosphere

Answer: Oxygen

33) Nntiife is limitless or endless in space, extent, or size; impossible to measure or calculate.

Answer: infinite

34) Ektara is an oriental system of unarmed combat using the hands and feet to deliver and block blows, widely practised as a sport.

Answer: Karate

35) Ybraoloart is a room or building equipped for scientific experiments, research, or teaching, or for the manufacture of drugs or chemicals.

Answer: Laboratory

The following proverb means

36) "A rolling stone gathers no moss" means

- a. Someone who does not settle in one place rarely prospers
- b. Stone rolling down a hill moves faster
- c. One should keep moving forward in his life
- d. One should not stop.

Answer: (a)

37) To take with a grain of salt

- a. To take with some reservation
- b. To take with total disbelief
- c. To take whole heartedly
- d. To take seriously

Answer: (a)

38) To keep one's head

- a. To be agile and active
- b. To keep calm
- c. To think coherently
- d. None of these

Answer: (b)

39) To cross swords

- a. To fight
- b. To defend
- c. To kill
- d. To rob

Answer: (a)

40) A snake in the grass

- a. Secret or hidden enemy
- b. Unforeseen happening
- c. Unrecognizable danger
- d. Unreliable person

Answer: (c)

41) To give up the ghost

- a. To suffer
- b. To fight evil forces
- c. To die
- d. To become rational

Answer: (c)

42) To turn over a new leaf

- a. To change completely one's course of action
- b. To shift attention to new problems after having studied the old ones thoroughly
- c. To cover up one's faults by wearing new marks
- d. To change the old habits and adopt new ones

Answer (d)

## Numerical Problems

43) By how many degrees a minute-hand rotates in 45 minutes?

- a.  $45^\circ$
- b.  $90^\circ$
- c.  $180^\circ$
- d.  $270^\circ$

Answer (d)

Minute-hand covers  $360^\circ$  in 1 hour that is one complete rotation.

Or

$$\frac{360}{60} = 6^\circ/\text{minute}$$

Hence in 45 minutes it will rotate by  $45 \times 6 = 270^\circ$

44) Degree covered by hour- hand in 6 hours is

- a.  $45^\circ$
- b.  $90^\circ$
- c.  $180^\circ$
- d.  $360^\circ$

Answer (c)

Solution: In 12 hours an hour-hand rotates by  $360^\circ$  i.e. one complete revolution.

Hence in one hour it does

$$\frac{360}{12} = 30^\circ/\text{hour}$$

Therefore, in 6 hours it will cover,  $30^\circ \times 6 = 180^\circ$

45) What is the angle covered by a hour-hand between 8 a.m. and 5 p.m.

- a. 45
- b. 95
- c. 270
- d. 360

Answer: (c)

Solution: In one hour, hour- hand covers  $30^\circ$ , hence in 9 hours it will cover  $30^\circ \times 9 = 270^\circ$

46) A hunter kills half of the birds on a particular tree after some time he comes back and kills one-third of the remaining birds, if 10 birds are left in the end then what was the original number of birds on the tree.

- a. 10
- b. 20
- c. 30
- d. 40

Answer (c)

Let x be the original number of birds

Birds left after the hunter killed half of them =  $x/2$

Bird left after killing one-third of the remaining =

$$= \frac{x}{2} - \frac{1}{3} \times \frac{x}{2} = \frac{x}{2} \left( \frac{2}{3} \right) = \frac{x}{3}$$

Now  $x/3 = 10$

Hence,  $x = 30$

47) A hunter kills half and one birds of the total which were sitting on a particular tree after some time he comes back and again kills half and one birds of the remaining birds. If 3 birds are left on the tree then what was the original number of birds on the tree.

- a. 16
- b. 17
- c. 18
- d. 19

Answer: (c)

Let x be the original number of birds on the tree

Birds left after the hunter kills half and one of the total birds

$$= \frac{x}{2} - 1$$

Birds left after the hunter again kills half and one of the remaining

$$\frac{1}{2} \left( \frac{x}{2} - 1 \right) - 1$$

Birds left at the end = 3

Hence

$$\frac{1}{2}\left(\frac{x}{2}-1\right)-1=3$$
$$x=18$$

Hence the initial numbers of birds on the tree were 18.

48) A bag contains 9 sand bags and these 9 sand bags contain 3 smaller bags each. What is the total number smaller bags?

- a. 3
- b. 9
- c. 27
- d. 81

Answer: (c)

Solution:  $9 \times 3 = 27$

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From the given options choose if the given statement is (a) True, (b) False, (c) Probable or (d) Absurd.

49) Milky Way is a galaxy from which we get milk when it rains

Answer: (d)

50) Today's students are not as obedient as they were in older days

Answer: (c)

51) Today's youth believe in late marriage

Answer: (c)

52) France is one of the member states of European Union.

Answer: (a)



53) A rainbow is a bow that is made of colorful wood.

Answer: (d)

54) India will win next cricket world cup.

Answer: (c)

55) India is world's most populated country in the world

Answer: (b)

56) Paper which is widely used for writing purpose is an organic material.

Answer: (a)

57) Summer season starts in India starts in the month of November.

Answer: (b)

58) Automobile is a kind of phone used for voice communication.

Answer: (d)

59) Today's generation is more corrupt when compared to olden days.

Answer: (b)

60) Coal is also called as black gold because it is made of gold which is black in color.

Answer: (d)

Select the option which justifies the given statement.

61) Statement: India is a secular country because

- a. India's prime minister is a secular person
- b. India's people are secular
- c. Indian constitution is secular
- d. Cause it is a democratic country

Answer: (c)

62) Statement: A fish can breathe in water because

- a. Fish don't have a nose
- b. Fish don't need oxygen to live
- c. Fish don't breathe
- d. Fish have gills which helps them in breathing in water.

Answer: (d)

63) Statement: A large number of highly educated youth migrates every year from India to western country because

- a. They don't want to live in India
- b. In search of suitable job opportunity
- c. India is highly populated
- d. They don't like Indian climate

Answer (b)

64) Statement: plastic is a non-biodegradable material because

- a. plastic is not an organic material
- b. microbes don't like its taste
- c. It is acidic in nature
- d. It grows naturally

Answer (a)

65) Statement: India has 28 states because

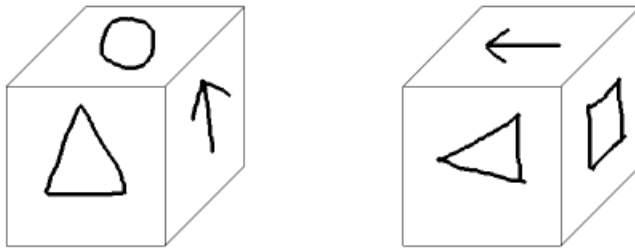
- a. India was created by joining 28 states in 1947
- b. India has a federal government,
- c. Cause it was more difficult to govern one large state
- d. people were not ready to live in a single state

Answer (b)

## Dice and Cube Questions 2 Sets

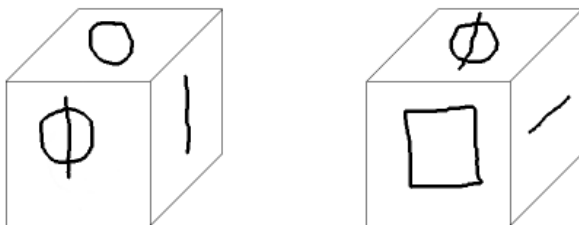
Find if the following cubes are equal or not, choose yes or no from the option.

66) Find if the following cubes are equal or not, choose yes or no from the option.



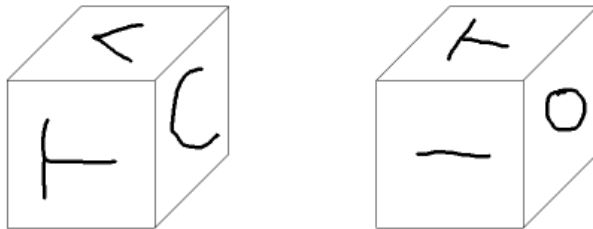
Answer: YES - cube is rotated by 90 degree towards the west. hiding one of the visible sides while showing a new one

67) Find if the following cubes are equal or not, choose yes or no from the option.



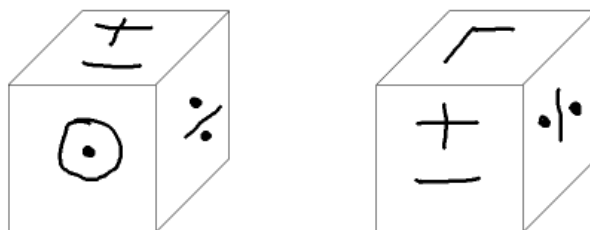
Answer: YES - cube is rotated by 90 degree towards the north side. hiding one of the visible sides while showing a new one

68) Find if the following cubes are equal or not, choose yes or no from the option.



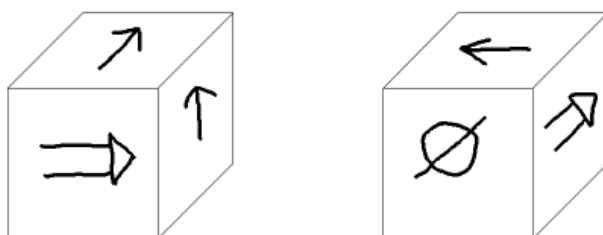
Answer: NO- Two of the symbols are different, hence we can say that they are not similar. or we not sure if they are equal.

69) Find if the following cubes are equal or not, choose yes or no from the option.



Answer: YES - the cube has been rotated by 90 degree toward the south. hiding one of the visible sides while showing a new one

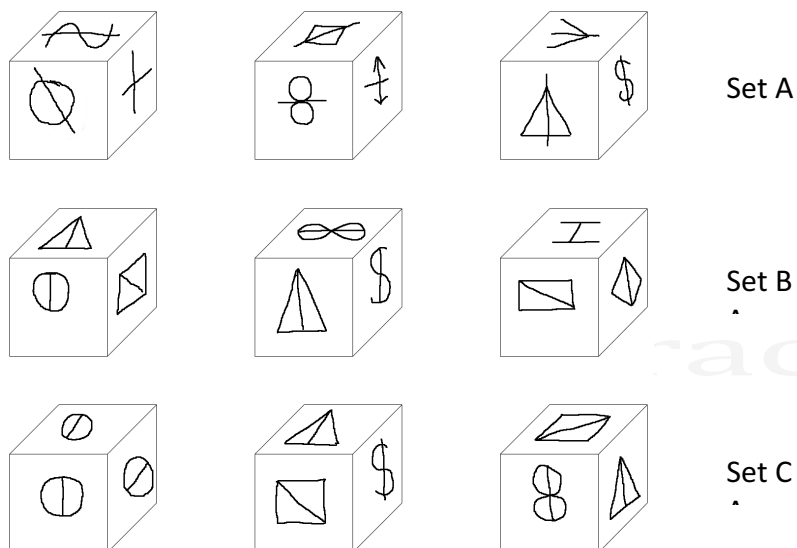
70) Find if the following cubes are equal or not, choose yes or no from the option.



Answer: YES - the cube has been rotated by 90 degrees toward the east. hiding one of the visible sides while showing a new one.

## Dice and Cube Questions 3 Sets

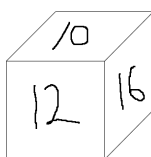
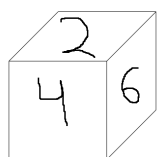
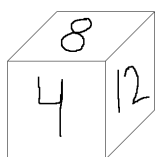
71) From the following cubes which cube matches with set A



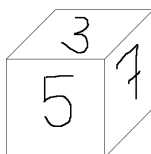
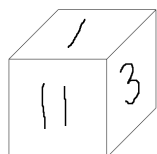
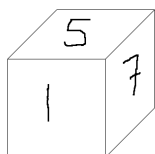
Answer (c):

In Cube C right side face has similarity with set A cube. In set A we could see the divider line is going out from the figure which it is dividing. Same figure can be seen on set C.

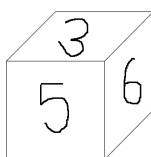
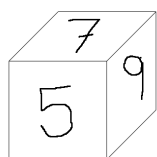
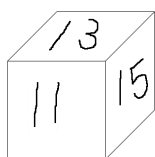
72) From the following cubes which cube matches with set A



Set A



Set B

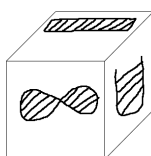
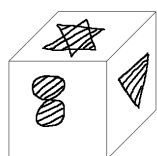
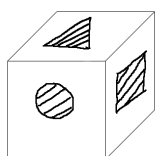


Set C

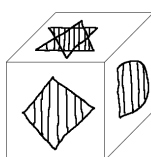
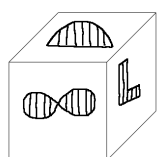
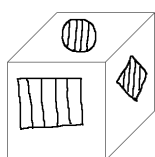
Answer: (c)

Cube C has one even number similar to set A.

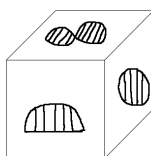
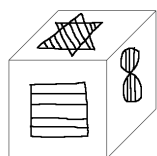
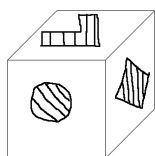
73) From the following cubes which cube matches with set A



Set A



Set B

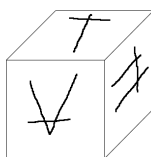
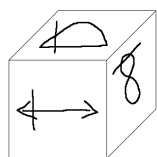
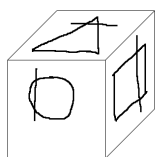


Set C

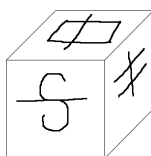
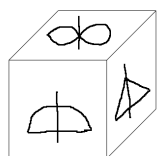
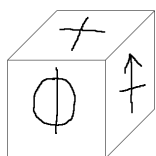
Answer: C

Upper side of the cube C has stripes matching those of Set -A

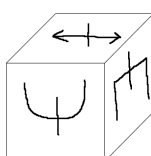
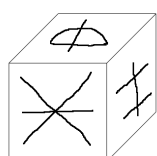
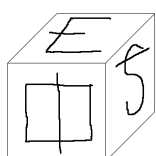
74) From the following cubes which cube matches with set A



Set A



Set B

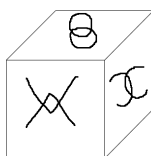
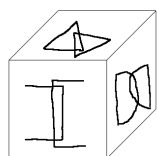
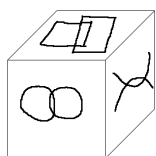


Set C

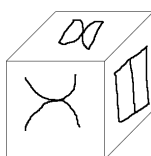
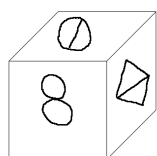
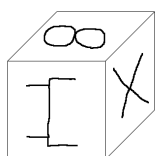
Answer (a):

Cube A, right side face has a cut in the upper half similar to the pattern in Set A

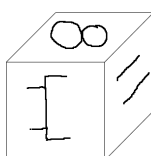
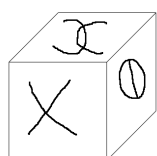
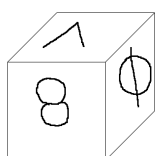
75) From the following cubes which cube matches with set A



Set A



Set B



Set C

Answer (b): In cube B upper side face has overlapping pattern.