# Officer Intelligence Rating Test

## SOLVED PAPERS PART 2

# 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 know 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.

# Officer Intelligence Rating Test

## Verbal and Non-Verbal Questions

## Solved Papers eBook Part 1
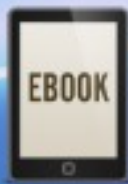
[Download OIR Test Part - 1](#)

# Find Missing Numbers

1) 81, 27, 9, 3, ?
   a. 1
   b. 2
   c. 3
   d. 4

Answer (a)

(1): each number in regression is divided by 3.

2) 25, 5, 16, 4, 9, ?
   a. 6
   b. 2
   c. 1
   d. 3

Answer (d)

(3): Divide into sets of two numbers. The second number is the square root of the number.

3) 9, 5, 6, 8, 4, 5, 7, 3,?
   a. 1
   b. 2
   c. 3
   d. 4

Answer (d)

(4): divide into sets of 3 numbers. From the first number subtract 4 then add 1 to get the third number.

4) 2, 3, 5, 3, 4, 7, 4, 5, ?
   a. 4
   b. 7
   c. 8
   d. 9

Answer (d)

(9): divide into sets of 3 numbers. The sum of the first two numbers equals the third number.

5) 2, 13, 4, 11, 6, 9, ?
   a. 5
   b. 8
   c. 10
   d. 17

Answer (b)

(8): the first, third and fifth numbers indicate a progression of two. The seventh number therefore will be 8

6) 16, 4, 2, 25, 5, 3, 36, 6, ?
   a. 2
   b. 3
   c. 4
   d. 7

Answer: (c)

(4): divide into sets of 3 numbers. The second number is the square root of the first. Then subtract two to get the third number.

7) 1, 16, 2, 15, 3, 14, 4,?
   a. 11
   b. 12
   c. 13
   d. 14

Answer (c)

(13): Starting with the second number, every other number goes down by one.

# Coding and Decoding

8) In a certain code, COMPUTER is written as RFUVQNPC. How is MEDICINE written in the same code?

    a. EOJDEJFM
    b. MFEJDJOE
    c. MFEDJJOE
    d. EOJDJEFM

Ans: (d)

Sol: The letters of the word are written in a reverse order and each letter, except the first and the last one is moved one step forward, to obtain the code.

9) If CIGARETTE is coded as GICERAETT, then DIRECTION will be coded as

    a. NOIETCRID
    b. RIDTCENOI
    c. IRDCTIONE
    d. NORTECDII
    e. None of these

Ans: (b)

Sol: The word in divided into groups of three letters each and then the letters in each group are written in a reverse order to obtain the code.

10) According to a military code, SYSTEM is SYSMET and NEARER is AENRER. What is the code for FRACTION?

    a. CARFNOIT
    b. CARFTION
    c. FRACNOIT
    d. ARFCNOIT

e. CARFNOIT

Ans: (a)

Sol: The letters in the first half and the latter half of the word are separately reversed to obtain the code.

# Which word will come last in the dictionary?

11)
- Circle
- Cite
- Clap
- Clear

Answer: Clear

12)
- Dive
- Dock
- Domain
- Downfall

Answer: Downfall

13)
- Entry
- Envisage
- Envoy
- Envy

Answer: Envy

14)
- Fault
- Fax
- Feat
- Feed

Answer: Feed

15)
- Impose
- Impress
- Improve
- Incense

Answer: Incense

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

16)
- Lend
- Level
- Lid
- Loan

Answer: n

17)
- Menace
- Merit
- Mob
- Mode

Answer: e

18)
- Norm
- Nut
- Nutrition
- Nutritious

Answer: s

19)
- Oven
- Owen
- Oxygen
- Ozone

Answer: e

20)
- Pack
- Person
- Phase
- Phrase

Answer: e

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

21)
- 3946,
- 3912,
- 3901,
- 3902

Answer: 1

22)
- 42018,
- 42011,

- 42002,
- 40012

Answer: 2

23)

- 74028,
- 72040,
- 72038,
- 73020

Answer: 8

24)

- 50183,
- 50202,
- 50999,
- 50284

Answer: 3

25)

1. 54321
2. 53421,
3. 52341
4. 54123

Answer: 1

26)

1. 55667788,
2. 55668800,
3. 55667708,
4. 55667780

Answer: 8

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

27) engglaua is a system of communication used by a particular country or community.
Answer: language

28) lueceolm represents the smallest fundamental unit of a chemical compound that can take part in a chemical reaction.
Answer: molecule

29) A evlno is a long narrative that is normally in prose, which describes fictional characters and events, usually in the form of a sequential story.
Answer: novel

30) Something which is not transparent or translucent is called as uaqeop
Answer: opaque

31) Regular repeated elliptical course of a celestial object or spacecraft about a star or planet is known as rbiot
Answer: orbit

32) lpephamt is a small booklet or leaflet containing information or arguments about a single subject.
Answer: pamphlet

33) grrpaahpa a distinct section of a piece of writing, usually dealing with a single theme and indicated by a new line, indentation, or numbering
Answer: paragraph

34) hscsipy is the branch of science concerned with the nature and properties of matter and energy
Answer: physics

35) <u>euplrp</u> is a colour intermediate between red and blue.

Answer: purple

# The following proverb means

36) To stand one's gun

- To keep the guns close to oneself even amid danger
- To persevere when hardships press
- To maintain dignified and unbending attitude
- To maintain one's position

Answer (b)

37) To be at loggerheads

a. To have tough encounter
b. To be at enmity or strife
c. To face stiff opposition
d. To tax one's mind and body

Answer (b)

38) To talk through one's hat

a. To speak fluently
b. To talk nonsense
c. To talk wisdom
d. To speak at random

Answer (b)

39) To snap one's finger

a. To speak abruptly
b. To accept immediately
c. To grasp eagerly

d. To become contemptuous of

Answer (d)

40) A pipe dream

   a. A pleasant dream
   b. A bad dream
   c. An impractical plan
   d. A foolish idea

Answer(c)

41) To give up the ghost

   a. To die
   b. To make false appearance
   c. To terrify others by acting in suspicious manner
   d. To leave useless pursuits

Answer (a)

42) To have an easy time of it

   a. To take the world lightly
   b. To indulge in frivolities
   c. To squander away resources
   d. To live in quiet and comfort

Answer (d)

# Numerical Problems

43) By what degree has the hour-hand rotated between 1 : 40 pm and 5 p.m.

- 90
- 100
- 110
- 150

Answer (a)

From 1 : 40 pm to 5 p.m the time covered is 3 hours and 20 minutes.

In 60 minutes, hours-hand covers 30° hence in 20 minute it will cover, $\frac{20}{60} \times 30 = 10°$

In 3 hours, hour-hand will cover 3 × 30 = 90 degree

Hence in total, hour-hand will cover 90 + 5 = 100° degrees

44) What is the angle between the two hands of a clock, when the clock shows 3 hours 25 minutes?

- 45. 5°
- 46°
- 46.5°
- 47.5°

Answer (d)

At 3 hour and 25 minute

If we take 12 o'clock as point of reference

Minute-hand has covered
$25 \times 6 = 150°$

Hour-hand has covered

$$3 \times 30 + 30 \times \frac{25}{60} = 102.5°$$

Hence difference in angle
$= 150 - 102.5 = 47.5°$

45) The angle between the minute hand and the hour hand of a clock when the time is 4:20, is

- 0°
- 5°
- 10°
- 20°

Answer (c)

Angled covered by hour hand in
$$4 \text{ hour} + 20 \text{ min} = 4 + \frac{20}{60} = \frac{13}{3}$$
$$\frac{360°}{12} \times \frac{13}{3} = 130°$$
Angle covered by minute hand in 20 min
$$= \frac{(360°)}{60} \times 20 = 120°$$
Therefore the angles between the hands is
130° - 120° = 10°

46) Free notebooks were distributed equally among children of a class. The number of notebooks each child got was one-eighth of the number of children. Had the number of children been half, each child would have got 16 notebooks. Total how many notebooks were distributed?

- 312
- 432
- 512
- 720

Answer (c)
Let total number of children be x.
Then

$$x \times \frac{1}{8}x = \frac{x}{2} \times 16 \rightarrow x = 64$$

∴number of notebooks

$$\frac{1}{8}x^2 = \left(\frac{1}{8} \times 64 \times 64\right) = 512$$

47) Ram, Ramesh and Rakesh share out a certain sum of money between them. Ram gets 35%, Ramesh gets 3/5 and Rakesh gets Rs 125.
How much is the original sum of money?

- 1500
- 1800
- 2000
- 2500

Answer (d)
35% = 7/20 and 3/5 = 12/20 ie 19/20 in total

Ramesh's share of Rs 125 must therefore be 1/20

Total sum of money, therefore, is Rs 125 × 20 = 2,500

48) A sum of Rs. 1360 has been divided among A, B and C such that A gets 2/3 of what B gets and B gets 1/4 of what C gets. B's share is:

150
200
240
300

Answer (c)

# Select the option which justifies the given statement.

49) Statement: Many national parks have been created in India because

  a. National parks have lots of forest area, it provides clean air.
  b. National parks have a lot of open space
  c. A national park is a park in use for conservation purposes.
  d. National parks have rivers.

Answer (c)

50) Statement: Renewable sources of energy must be used because

  a. Renewable energy is cheap
  b. Renewable sources of energy are environmental friendly.
  c. Cause fossil fuel is costly
  d. Fossil fuel will be finished in near future

Answer (b)

51) Statement: Indian government has stopped telegram service because

  a. Because it was an outdated service, no longer useful
  b. It took a lot of time for a telegram to reach its destination
  c. People were not using this service
  d. Telegram department was causing huge financial loses for telecommunication ministry.
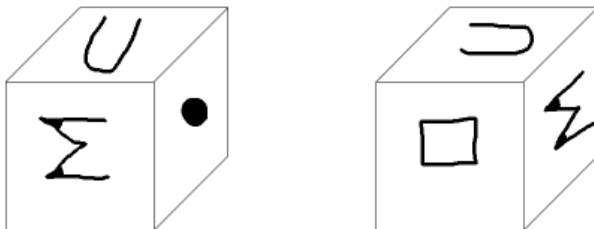
Answer (d)

# Dice and Cube Questions 2 Sets

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

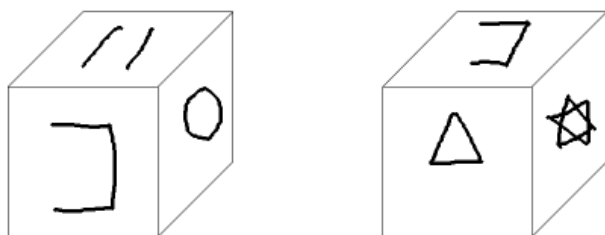52) Find if the following cubes are equal or not, choose yes or no from the option.
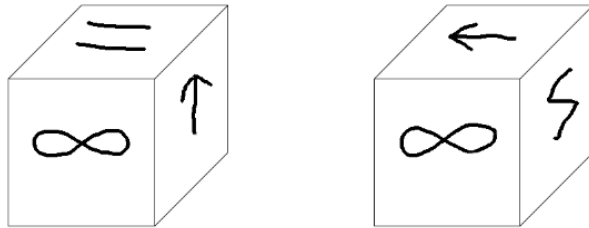


Answer: NO - the cube has been rotated by 90 degree toward the west. While it may look that two of the symbols are same but if we look at the symbol of infinity it has not rotated accordingly by 90 degree.
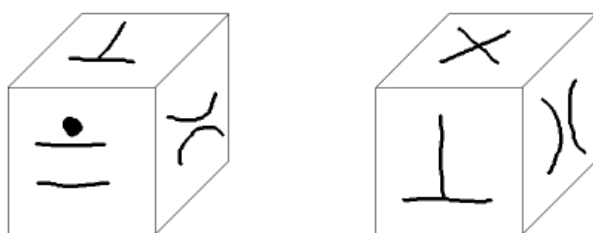
53)



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

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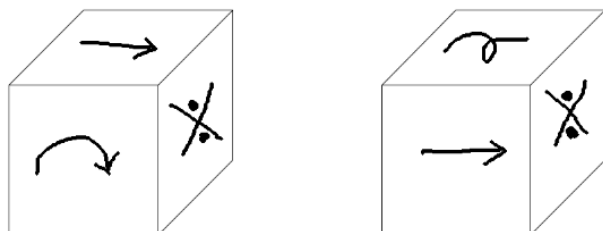


Answer: No - even though it looks as if the cube has been rotated by 90 Degree north but two of the symbol of clearly different.

55) 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.
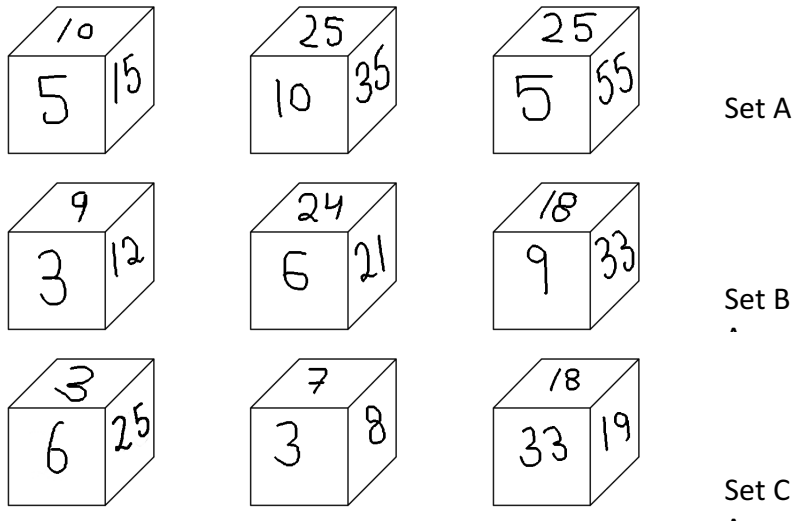
56) Find if the following cubes are equal or not, choose yes or no from the option.



Answer: No- even thought it looks as if the cubes have been rotated by 90 Degree to south, it we look at the diagram with two dots, the diagram has not rotated by 90 Degree.
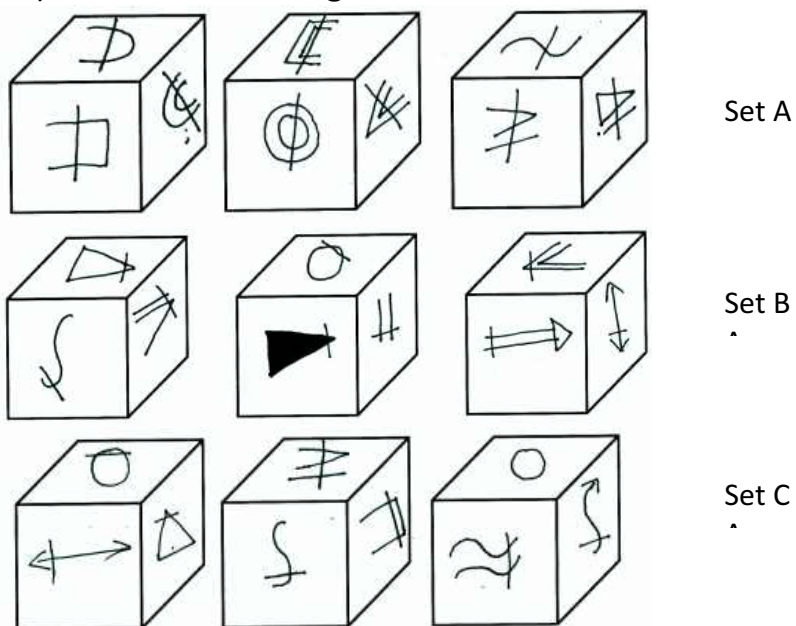
# Dice and Cube Questions 3 Sets

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



Set A

Set B

Set C

Answer (c):
In Set C Right hand Cube right side face has similarity with set A cube. In set A we could multiple of 5 same as cube C.

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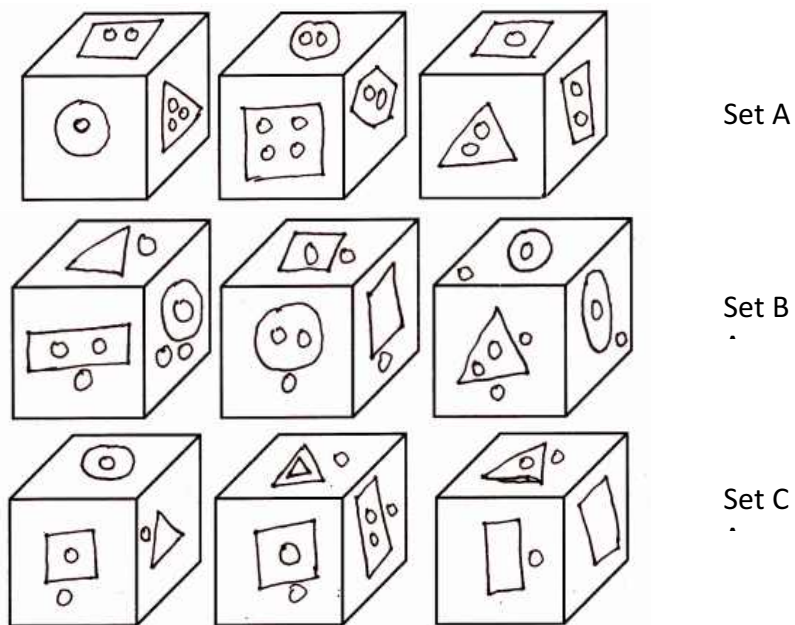


Set A

Set B

Set C

Answer: In set A, there is a cut in the middle of each figure

In set B, there is a cut at one of the sides.
In Set C Middle Cube upper side has a cut in the middle.

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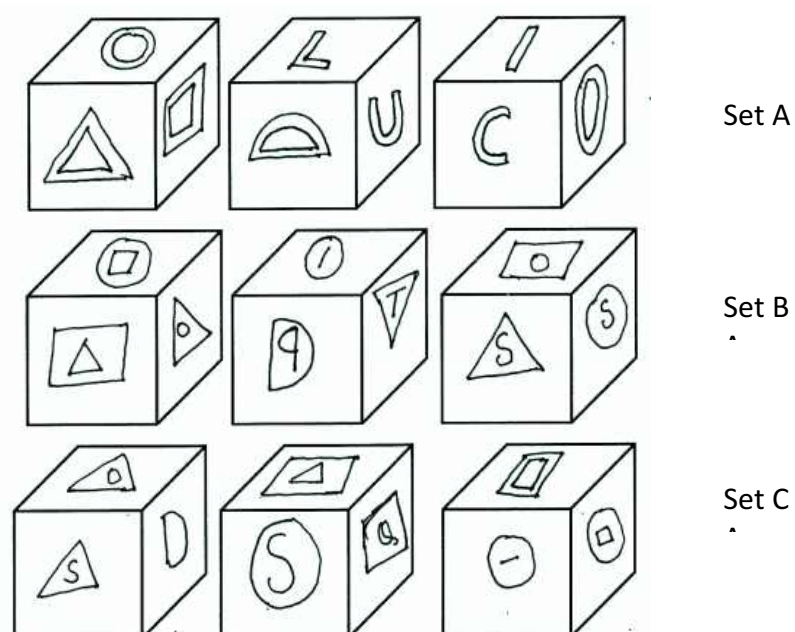


Set A

Set B

Set C

Answer: In set A there is at least 1 circle inside the figure
In set B there is at least 1 circle outside the figure.
In Set C Right cube upper side there is one figure with one circle inside.

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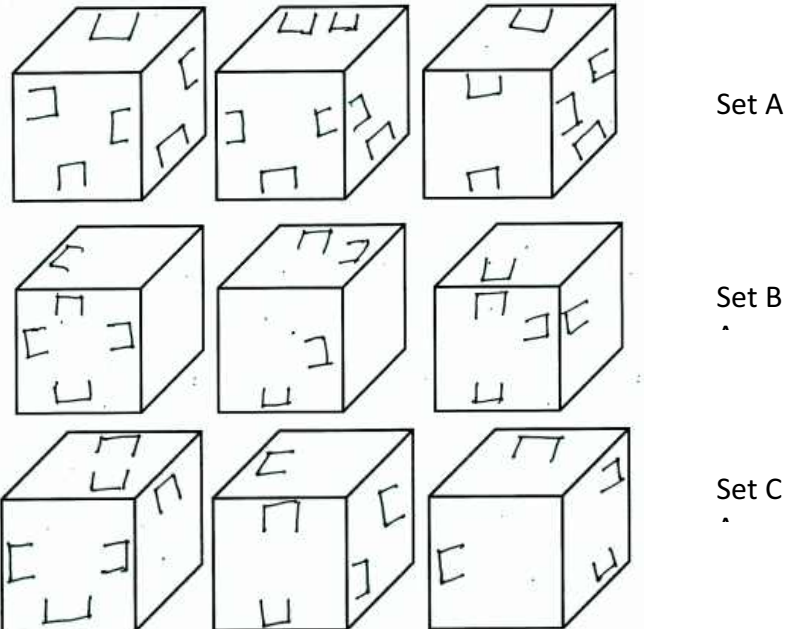


Set A

Set B

Set C

Answer: In Set A: the diagram is kind of repeated twice,
In set B: there is 1 figure inside of the closed figures.
Set C Left Cube upper face has a diagram which repeats twice, similar to set A

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



Set A

Set B

Set C

Answer (Set A: Two arms are facing towards the edges and away from the center. Set B: Two arms are facing away from the edges and towards the center.

Set C Middle Cube: right side has two figures in which the two arms are facing towards the edges and away from center.