

Sample Question Paper
Ramaiah Research Programme Entrance Test

Ramaiah University of Applied Sciences
Bangalore

Total Marks: 100 Marks

Time Duration: 2 Hrs.

- 1. Verbal Ability: 25 Marks** **2. Mental Ability: 25 Marks**
3. Logical Deductions: 25 Marks **4. Nonverbal Reasoning: 25 Marks**

1. Verbal Ability

Each of these has a question with a part of it underlined or Blank. The question is followed by four or more alternatives to replace the underlined part of the sentence. Choose the best alternative which is grammatically correct.

1. Early _____ of hearing loss is _____ by the fact that the other senses are able to compensate for moderate amounts of loss, so that people frequently do not know that their hearing is imperfect.
 - a. Discovery---- indicated
 - b. Development----- prevented
 - c. Detection ----- complicated
 - d. Incidence ---- corrected

2. Since 1813 reaction to Jane Austen's novels has oscillated between _____ and condescension; but in general later writers have esteemed her works more highly than did most of her literary _____.
 - a. Dismissal ---- admirers
 - b. Adoration ----- contemporaries
 - c. Disapproval ---- readers
 - d. Indifference ---- followers
 - e. Approbation ----- precursors

3. If she were I, she would have accepted the prize had she won it.
 - a. was I, she would have accepted the prize if she had won it.
 - b. was I, she would have accepted the prize she had won.
 - c. were I, she would have accepted the prize if she would have won it.
 - d. were I, she would have accepted the prize had she won it.

4. In this particular job we have discovered that to be diligent is more important than being bright.
- by being diligent is important than being bright.
 - being diligent is more important than being bright.
 - diligence is more important than brightness.
 - for one to be diligent is more important than being bright.
5. The ancient question of the exact difference between plants and animals, which was so complicated with the discovery of microscopic members of both groups, was somewhat sidestepped with the establishment of a third phylum, the Protista, reserved just for them.
- consisting only of them
 - inhabited only by them
 - which includes all microscopic life
 - which would have included all microscopic plants and animals
6. Beautifully sanded and re-varnished, Bill proudly displayed the antique desk in his den.
- Beautifully sanded and re-varnished, Bill proudly displayed the antique desk in his den.
 - Beautiful, sanded and re-varnished, in his den Bill proudly displayed his desk.
 - An antique, and beautifully sanded and re-varnished, in his den Bill proudly displayed his desk.
 - Bill proudly displayed the antique desk beautifully sanded and re-varnished, in his den.
 - Bill, beautifully sanded and revarnished in the den, proudly displayed the antique desk.
7. Platinum _____ a rare and valuable metal, white in colour, and next to silver and gold, the easiest to shape.
- is
 - was
 - has been
 - be
8. _____ started as a modern sport in India, at the same time that it did in Europe.
- To ski
 - That skiing
 - Ski
 - Skiing

Read each sentence to find out whether there is any grammatical error in it. The error, if any will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is 'd'. (Ignore the errors of punctuation, if any).

9. Solve as per the direction given above
- We discussed about the problem so thoroughly
 - on the eve of the examination
 - that I found it very easy to work it out.
 - No error
10. Solve as per the direction given above
- An Indian ship
 - laden with merchandise
 - got drowned in the Pacific Ocean.
 - No error
11. Solve as per the direction given above
- If I had known
 - this yesterday
 - I will have helped him
 - No error
12. Solve as per the direction given above
- A lot of travel delay is caused
 - due to the inefficiency and lack of good management
 - on behalf of the railways
 - No error

Find the correctly spelt word

13. Solve as per the direction given above
- Simultaneous
 - Simultonous
 - Simultanous
 - Simoltanous
14. Solve as per the direction given above
- Pessenger
 - Passenger
 - Pasanger
 - Pasenger
15. Solve as per the direction given above
- Throughfare
 - Thoroughfare
 - Throfare
 - Thoroufare

In each question, an incomplete statement (Stem) followed by fillers is given. Pick out the best one which can complete incomplete stem correctly and meaningfully.

16. Even if it rains I shall come means

- a. if I come it will not rain
- b. if it rains I shall not come
- c. I will certainly come whether it rains or not
- d. whenever there is rain I shall come
- e. I am less likely to come if it rains

17. She never visits any zoo because she is strong opponent of the idea of

- a. setting the animals free into forest
- b. feeding the animals while others are watching
- c. watching the animals in their natural abode
- d. going out of the house on a holiday
- e. holding the animals in captivity for our joy

18. I felt somewhat more relaxed

- a. but tense as compared to earlier
- b. and tense as compared to earlier
- c. as there was already no tension at all
- d. and tension-free as compared to earlier
- e. because the worry had already captured by mind

19. It is not easy to remain tranquil when those around you....

- a. behave in a socially acceptable manner
- b. exhibit pleasant mannerism
- c. are losing their heads
- d. agree to whatever you say
- e. exhibit generous and magnanimous gestures

20. His appearance is unsmiling but

- a. his heart is full of compassion for others
- b. he looks very serious on most occasions
- c. people are afraid of him
- d. he is uncompromising on matters of task performance
- e. he is full of jealousy towards his colleagues

In questions below, each passage consists of six sentences. The first and sixth sentences are given in the beginning and the end as S1 and S2. The middle four sentences in each have been removed and jumbled up. These are labeled as P, Q, R and S. Find out the proper order for the four sentences.

21. S1. In the middle of one side of the square sits the Chairman of the committee, the most important person in the room.

P. For a committee is not just a mere collection of individuals.

Q. On him rests much of the responsibility for the success or failure of the committee.

R. While this is happening we have an opportunity to get the 'feel' of this committee.

S. As the meeting opens, he runs briskly through a number of formalities.

S2. From the moment its members meet, it begins to have a sort nebulous life of its own.

a. RSQP

b. PQRS

c. QSRP

d. SQPR

22. S1. A force exists between everybody in the universe.

P. Normally it is very small but when the one of the bodies is a planet, like earth, the force is considerable.

Q. Everything on or near the surface of the earth is attracted by the mass of earth.

R. It has been investigated by many scientists including Galileo and Newton.

S The greater the mass, the greater is the earth's force of attraction on it. We can call this force of attraction gravity.

S2. This gravitational force depends on the mass of the bodies involved.

a. PRQS

b. PRSQ

c. QSRP

d. QSPR

In the following questions choose the word which best expresses the meaning of the given word

23. **INEBRIATE**

a. Dreamy

b. Stupefied

c. Unsteady

d. Drunken

24. **FORAY**

a. Maraud

b. Contest

c. Ranger

d. Intuition

25. **STERILE**

a. Barren

b. Arid

c. Childless

d. Dry

2. General Mental Ability

Complete the following series

- 240, ? , 120, 40, 10, 2 (/1,2,3)
 - 180
 - 240
 - 420
 - 480
- 1, 5, 14, 30, 55, 91, ? ($+2^2, +3^2, +4^2 \dots$)
 - 130
 - 140
 - 150
 - 160
- 6, 13, 25, 51, 101, ? ($*2+1, *2-1, *2+1, *2-1 \dots$)
 - 201
 - 202
 - 203
 - 205
- Which fraction comes next in the sequence $\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16}, ?$
 - $\frac{9}{32}$
 - $\frac{10}{17}$
 - $\frac{11}{34}$
 - $\frac{12}{35}$
- H, I, K, N, ? (=1, +2, +3...)
 - O
 - Q
 - R
 - S
- AB, DEF, HIJK, ?, STUVWX
 - LMNO
 - LMNOP
 - MNOPQ
 - QRSTU
- ABD, DGK, HMS, MTB, SBL, ? ($1^{\text{st}} +3, +4, +5 \dots, 2^{\text{nd}} +5, +6, +7 \dots, 3^{\text{rd}} +7, +8, +9 \dots$)
 - XKW
 - ZAB
 - ZKU
 - ZKW

8. PERPENDICULAR, ERPENDICULA, RPENDICUL, ?
- PENDICUL
 - PENDIC
 - PENDICU
 - ENDICU
9. 2B, 4C, 8E, 14H, ? (+2,+4,+6,+8 & +1, +2, +3, +4)
- 16K
 - 20I
 - 20L
 - 22L
10. 2, A, 9, B, 6, C, 13, D, ? (2,9,6, 13 A,B,C,D---- +7, -3,+7, -3)
- 9
 - 10
 - 12
 - 19

Fill the missing word

11. Giant: Dwarf :: Genius: ?
- Idiot
 - Wicked
 - Gentle
 - Tiny
12. Food: Stomach :: Fuel: ?
- Plane
 - Truck
 - Engine
 - Automobile
13. acme : mace :: alga : ?
- glaa
 - gaal
 - laga
 - gala
14. Circle: Circumference :: Square: ?
- Volume
 - Area
 - Diagonal
 - Perimeter

Select the correct pair of words finding the relation as given in the bold letter words.

- 15. Wool : Warmth**
- Spring : Elasticity
 - Marketing : Advertising
 - Person : Success
 - Radio : Broadcast

16. Fury : Ire
- a. Amusement : Happiness
 - b. Joke : Laugh
 - c. Convulsion : Spasm
 - d. Truck : Transport

Solve the following questions:

17. The positions of the first and second digits in the number 94316875 are interchanged. Similarly, the positions of the third and fourth digits are interchanged and so on. Which of the following will be third to the left of the seventh digit from the left end after the rearrangement?
- a. 1
 - b. 4
 - c. 6
 - d. 8
 - e. None of these
18. What should come in the place of question mark in the following series?
3, 8, 6, 14, ?, 20
- a. 11
 - b. 10
 - c. 8
 - d. 9
19. Manik is fourteenth from the right end in a row of 40 boys. What is his position from the left end?
- a. 24th
 - b. 25th
 - c. 26th
 - d. 27th
20. In a class of 60 where boys are twice that of girls, Ramya ranked 17th from the top. If there are 9 boys ahead of Ramya, how many girls are after her in the rank?
- a. 26
 - b. 12
 - c. 10
 - d. 33
21. In a row of forty children, P is thirteenth from the left end and Q is ninth from the right end. How many children are there between P and R, if R is fourth to the left of Q?
- a. 12
 - b. 13
 - c. 14
 - d. 15

22. Letters showing the names of some fruits have been rearranged. Pick out the alternative number of the fruit which is richest source of Vitamin C?

- a. GAONM
- b. PELAP
- c. VAGAU
- d. RNEGOA

23. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was:

- a. 2700
- b. 2900
- c. 3000
- d. 3100

24. If $A + B > C + D$ and $B + C > A + D$, then it is defined that

- a. $D > B$
- b. $C > D$
- c. $A > D$
- d. $B > D$

25. If you had only one match and entered a COLD and DARK room, where there was an oil heater, an oil lamp and a candle, which would you light first?

- a. Oil heater
- b. Candle
- c. Match
- d. Oil lamp

Contd....

3. Logical Deductions

In each question below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

1. **Statements:** No women teacher can play. Some women teachers are athletes.

Conclusions:

I. Male athletes can play.

II. Some athletes can play.

- a. Only conclusion I follows
- b. Only conclusion II follows
- c. Either I or II follows
- d. Neither I nor II follows
- e. Both I or II follow

2. **Statements:** All bags are cakes. All lamps are cakes.

Conclusions:

I. Some lamps are bags.

II. No lamp is bag.

- a. Only conclusion I follows
- b. Only conclusion II follows
- c. Either I or II follows
- d. Neither I nor II follows
- e. Both I or II follow

3. **Statements:** All mangoes are golden in colour. No golden-coloured things are cheap.

Conclusions:

I. All mangoes are cheap.

II. Golden-coloured mangoes are not cheap.

- a. Only conclusion I follows
- b. Only conclusion II follows
- c. Either I or II follows
- d. Neither I nor II follows
- e. Both I or II follow

4. **Statements:** Some kings are queens. All queens are beautiful.

Conclusions:

I. All kings are beautiful.

II. All queens are kings.

- a. Only conclusion I follows
- b. Only conclusion II follows
- c. Either I or II follows
- d. Neither I nor II follows
- e. Both I or II follow

5. **Statements:** Some doctors are fools. Some fools are rich.

Conclusions:

- I. *Some doctors are rich*
- II. *Some rich are doctors.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I or II follow

6. **Statements:** All fish are tortoise. No tortoise is a crocodile.

Conclusions:

- I. *No crocodile is a fish.*
- II. *No fish is a crocodile.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I and II follow

7. **Statements:** All roads are waters. Some waters are boats.

Conclusions:

- I. *Some boats are roads.*
- II. *All waters are boats.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I or II follow

8. **Statements:** No bat is ball. No ball is wicket.

Conclusions:

- I. *No bat is wicket.*
- II. *All wickets are bats.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I or II follow

9. **Statements:** All flowers are trees. No fruit is tree.

Conclusions:

- I. *No fruit is flower.*
- II. *Some trees are flowers.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows

- d. Neither I nor II follows
- e. Both I or II follow

10. **Statements:** Some swords are sharp. All swords are rusty

Conclusions:

- I. *Some rusty things are sharp.*
- II. *Some rusty things are not sharp.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I or II follow

11. **Statements:** All hill stations have a sun-set point. X is a hill station.

Conclusions:

- I. *X has a sun-set point.*
- II. *Places other than hill stations do not have sun-set points.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I and II follow

12. **Statements:** All poles are guns. Some boats are not poles.

Conclusions:

- I. *All guns are boats.*
- II. *Some boats are not guns.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I or II follow

13. **Statements:** Many scooters are trucks. All trucks are trains.

Conclusions:

- I. *Some scooters are trains.*
- II. *No truck is a scooter.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I or II follow

14. **Statements:** Some papers are pens. Angle is a paper.

Conclusions:

- I. *Angle is not a pen.*
- II. *Angle is a pen.*

- a. Only conclusion I follows
- b. Only conclusion II follows
- c. Either I or II follows
- d. Neither I nor II follows
- e. Both I or II follow

15. **Statements:** Some papers are pens. Some pencils are pens.

Conclusions:

- I. *Some pens are pencils.*
- II. *Some pens are papers.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I or II follow

16. **Statements:** All windows are doors. No door is wall.

Conclusions:

- I. *No window is wall.*
- II. *No wall is door.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I or II follow

17. **Statements:** Most teachers are boys. Some boys are students.

Conclusions:

- I. *Some students are boys.*
- II. *Some teachers are students.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I or II follow

18. **Statements:** All men are married. Some men are educated.

Conclusions:

- I. *Some married are educated.*
- II. *Some educated are married.*
 - a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either I or II follows
 - d. Neither I nor II follows
 - e. Both I or II follow

19. **Statements:** Some men are educated. Educated persons prefer small families.

Conclusions:

- I. *All small families are educated.*

- II. *Some men prefer small families.*
- Only conclusion I follows
 - Only conclusion II follows
 - Either I or II follows
 - Neither I nor II follows
 - Both I or II follow

20. **Statements:** All pens are chalks. All chairs are chalks.

Conclusions:

- Some pens are chairs.*
 - Some chalks are pens.*
- Only conclusion I follows
 - Only conclusion II follows
 - Either I or II follows
 - Neither I nor II follows
 - Both I or II follow

In each of the questions below are given three statements followed by three conclusions numbered I, II and III, You have to take the given statements to be true even if they seem to be at variance from the commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

21. **Statements:** Some hills are rivers. Some rivers are deserts. All deserts are roads.

Conclusions:

- Some roads are rivers.*
 - Some roads are hills.*
 - Some deserts are hills.*
- None follows
 - Only I follows
 - Only I and II follow
 - Only II and III follow
 - All follow

22. **Statements:** All trains are buses. No room is bus. All boats are rooms.

Conclusions:

- No boat is train.*
 - No bus is boat.*
 - No train is room.*
- None follows
 - Only I and II follow
 - Only II and III follow
 - Only I and III follow
 - All follow

23. Look for the statement that *must be* true according to the given information.

Erin is twelve years old. For three years, she has been asking her parents for a dog. Her parents have told her that they believe a dog would not be happy in an apartment, but

they have given her permission to have a bird. Erin has not yet decided what kind of bird she would like to have.

- a. Erin's parents like birds better than they like dogs.
- b. Erin does not like birds
- c. Erin and her parents live in an apartment.
- d. Erin and her parents would like to move.

24. Pointing to a man, a woman said "His mother is the daughter of my mother's only daughter. How is the man related to that woman?"

- a. Son
- b. Father
- c. Brother
- d. Grandson

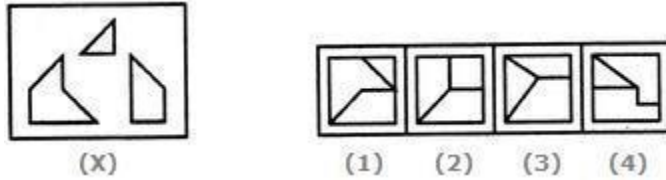
25. Here are some words translated from a foreign language. Granamelke means big tree, pinimelke means little tree, melkehoon means tree house. Which word means big house?

- a. Granahoon
- b. Pinishurc
- c. Pinihoon
- d. Melkegran

Contd...

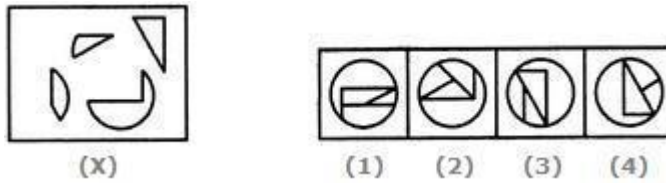
4. Non Verbal Reasoning

1. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).



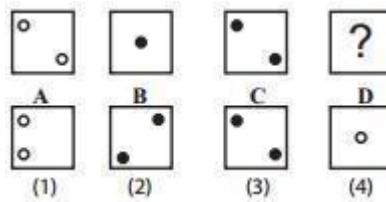
- a. 1
- b. 2
- c. 3
- d. 4

2. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).



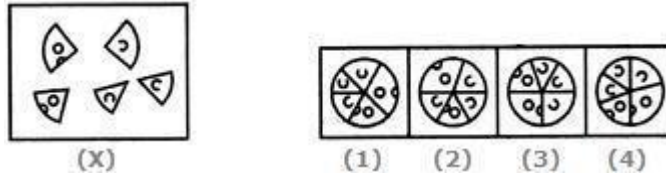
- a. 1
- b. 2
- c. 3
- d. 4

3. There is some relationship between diagrams A & B. The same relationship persists between C & D. Find the right diagrams for D from the alternatives.



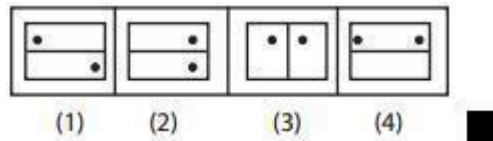
- a. 1
- b. 2
- c. 3
- d. 4

4. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).



- a. 1
- b. 2
- c. 3
- d. 4

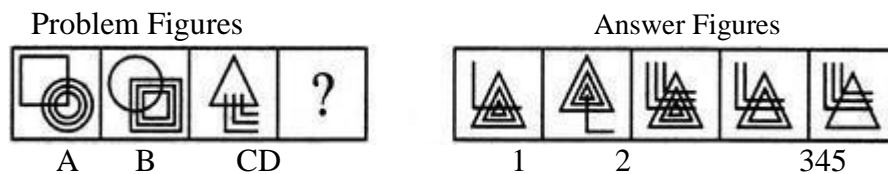
5. Choose the figure which is different:



- a. 1
- b. 2
- c. 3
- d. 4

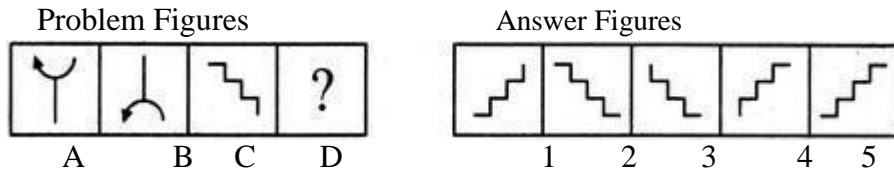
Each of the following questions consists of two sets of figures. Figures A, B, C and D constitute the Problem Set while figures 1, 2, 3, 4 and 5 constitute the Answer Set. There is a definite relationship between figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig. (D).

6. Select a suitable figure from the Answer Figures that would replace the question mark (?).



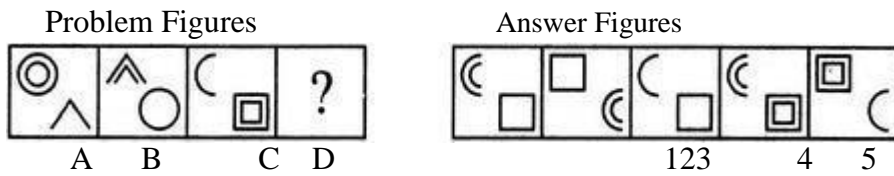
- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

7. Select a suitable figure from the Answer Figures that would replace the question mark (?).



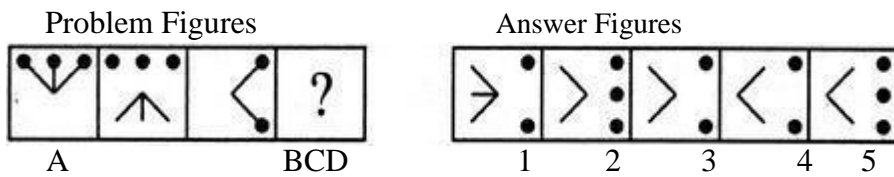
- a. 1 c. 3
b. 2 d. 4
e. 5

8. Select a suitable figure from the Answer Figures that would replace the question mark (?).



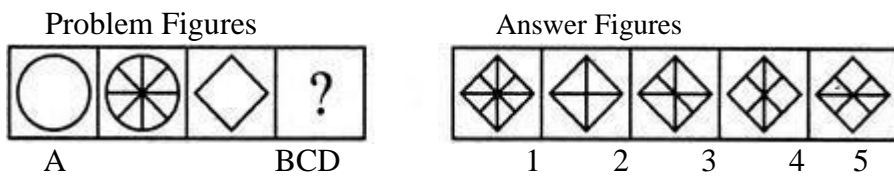
- a. 1 c. 3 e. 5
b. 2 d. 4

9. Select a suitable figure from the Answer Figures that would replace the question mark (?).



- a. 1 c. 3
b. 2 d. 4
e. 5

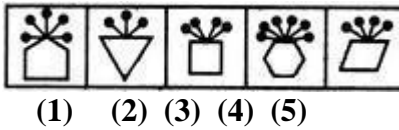
10. Select a suitable figure from the Answer Figures that would replace the question mark (?).



- a. 1 c. 3
b. 2 d. 4
e. 5

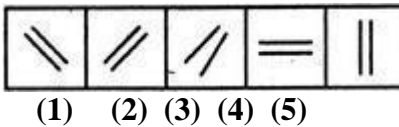
In each problem, out of the five figures marked (1), (2), (3), (4) and (5), four are similar in a certain manner. However, one figure is not like the other four. Choose the figure which is different from the rest.

11. Choose the figure which is different from the rest.



- a. 1c.3
- b. 2d.4
- e. 5

12. Choose the figure which is different from the rest.



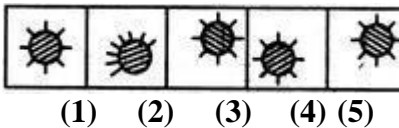
- a. 1c. 3
- b. 2d. 4
- e. 5

13. Choose the figure which is different from the rest.



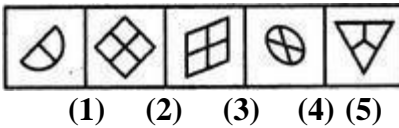
- a. 1 c. 3 e. 5
- b. 2 d. 4

14. Choose the figure which is different from the rest.



- a. 1 c. 3 e. 5
- b. 2 d. 4

15. Choose the figure which is different from the rest.



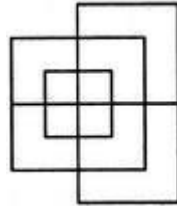
- a. 1 c. 3 e. 5
- b. 2 d. 4

16. Find the number of triangles in the given figure.



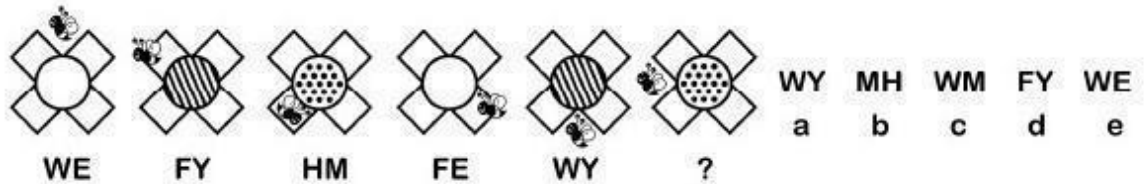
- a. 22
- b. 24
- c. 26
- d. 28

17. Find the minimum number of straight lines required to make the given figure.



- a. 13
- b. 15
- c. 17
- d. 19

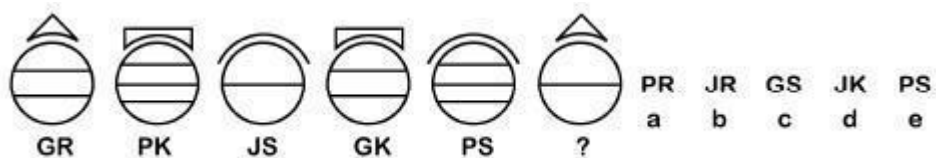
18. Find which code matches the shape or pattern given at the end of each question.



19. Find which code matches the shape or pattern given at the end of each question

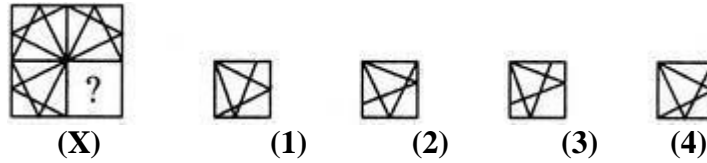


20. Find which code matches the shape or pattern given at the end of each question



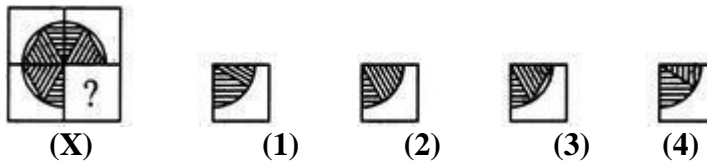
In each of the following questions, select a figure from amongst the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.

21. Identify the figure that completes the pattern.



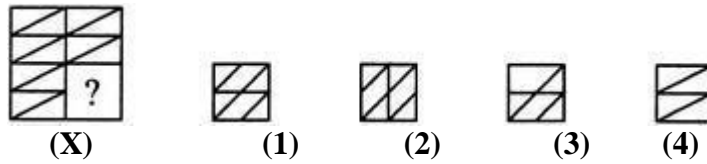
- a. 1 c. 3
b. 2 d. 4

22. Identify the figure that completes the pattern.



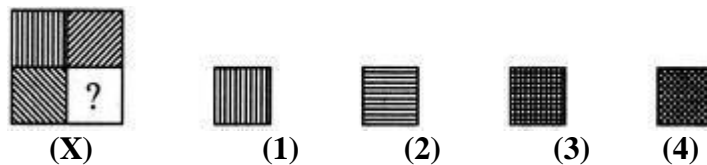
- a. 1 c. 3
b. 2 d. 4

23. Identify the figure that completes the pattern.



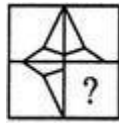
- a. 1 c. 3
b. 2 d. 4

24. Identify the figure that completes the pattern.



- a. 1
b. 2
c. 3
d. 4

25. Identify the figure that completes the pattern.



(X)



(1)



(2)



(3)



(4)

- a. 1
- b. 2
- c. 3
- d. 4

Space for Rough Work