

Design Scholarship Test
DST 2025

Question Paper
For B.Des. Program

Section A - MCQ

Section A (75 marks) contains **25 Multiple Choice Questions (MCQ)**, of which only one is the correct answer. Each correct answer will be awarded **3 marks**. Questions not attempted or answered incorrectly will be given zero marks.

Questions from **1 to 25** belong to this section.

Q.01 In the following images, you can observe a demonstration of specific physical or natural phenomena based on a specific scientific principle.
A pair of these images demonstrates the same phenomenon.

Select the appropriate pair-set.



1



2



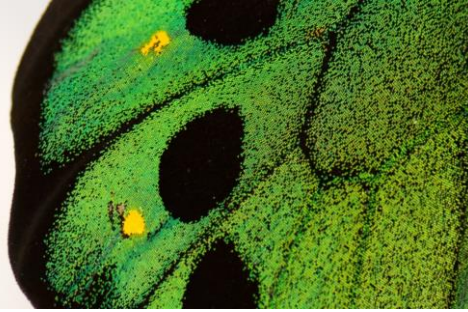
3



4



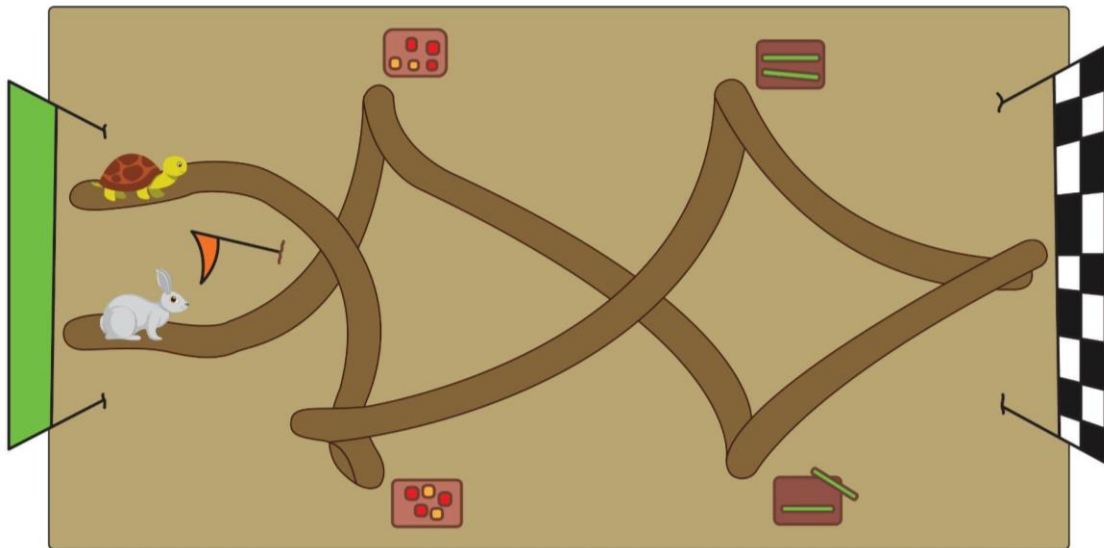
5



6

- a) 1 and 2, 3 and 4, 5 and 6 c) 1 and 3, 2 and 5, 4 and 6
 b) 1 and 5, 2 and 4, 3 and 6 d) 1 and 6, 2 and 5, 3 and 4

Q.02 The tortoise and the rabbit had another race. You did not see the race in real time, but since the ground was muddy, you can see the tracks they both made. They each had to cross in front of the red flag and then complete puzzles at two separate stations on the opposite sides of the field before heading to the finish line. Who won the race?

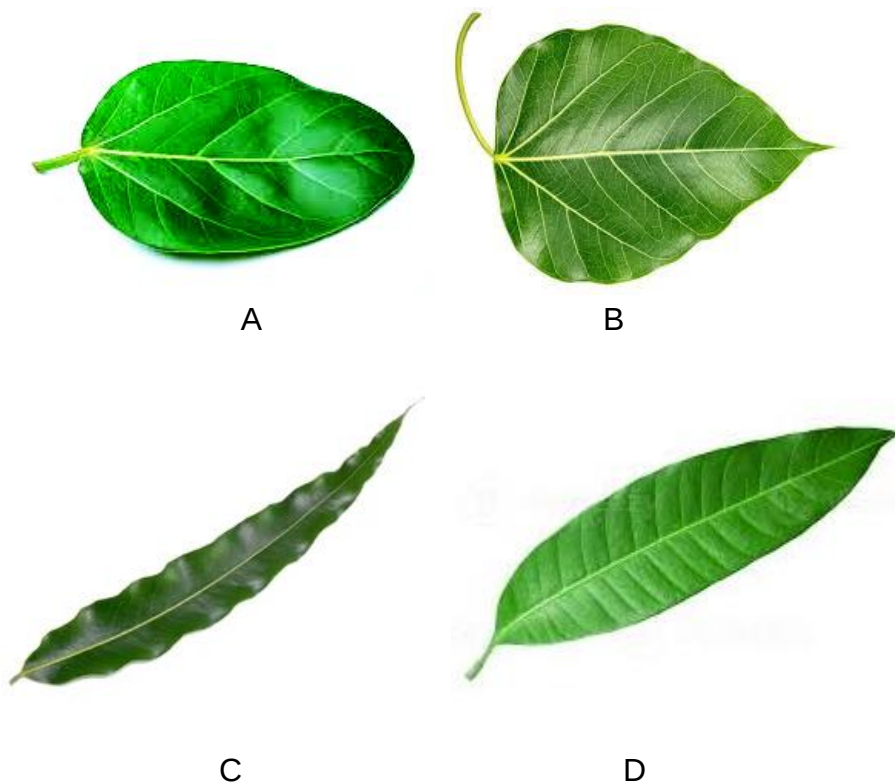


- a) The Rabbit
 b) The Tortoise
 c) The race was abandoned due to heavy rain.
 d) The race was tied.

Q. 03 In Russia, Oymyakon (Siberia District) is the coldest place on earth, where a small number of people live. One day, they noticed that the temperatures recorded on the Fahrenheit and Centigrade scales were the same. What was the temperature that day?

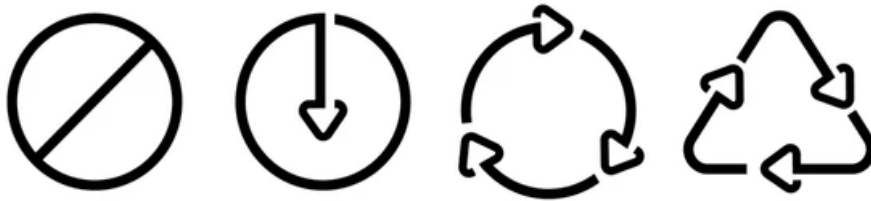
- a) minus 50 degrees b) minus 40 degrees
- c) minus 60 degrees d) Zero degrees

Q.04 Trees have been with us for almost forever. You can identify trees by looking at their leaves. Identify the correct sequence of the following sacred trees.



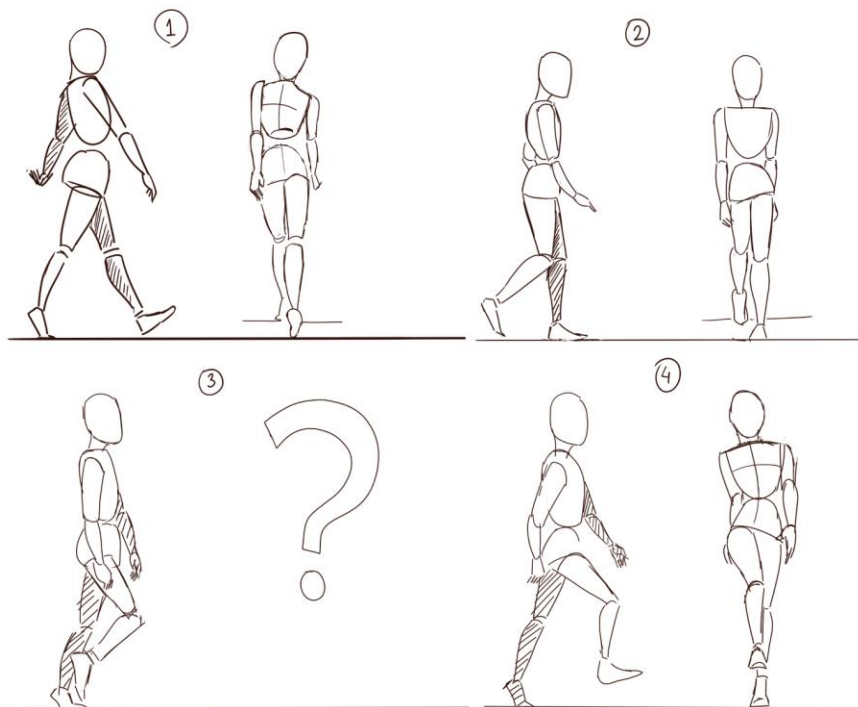
- a) A: Banyan B: Mango C: Peepal D: Ashok
- b) A: Peepal B: Banyan C: Mango D: Ashok
- c) A: Banyan B: Peepal C: Ashok D: Mango
- d) A: Peepal B: Ashok C: Banyan D: Mango

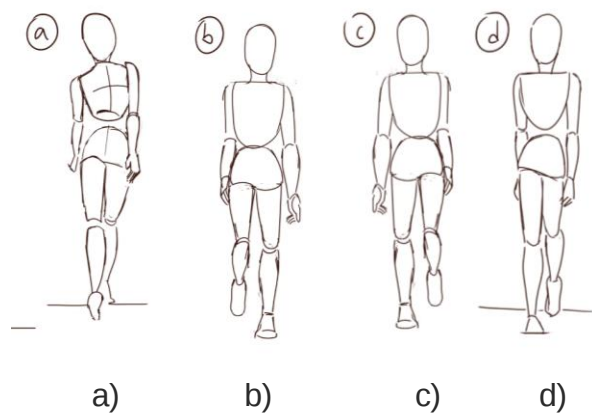
Q.05 What do the following symbols represent? (Left to Right direction)



- a) Reduce, Reuse, Recycle, Refuse
- b) Refuse, Reduce, Reuse, Recycle
- c) Refuse, Reuse, Refuse, Recycle
- d) Refuse, Reduce, Repurpose, Recycle

Q.06 Observe the sequence of walk cycles that shows the front and side profiles. Pick the option which best fits the missing front profile from sequence 3.





Q.07 A right cylinder is cut into equal halves in the middle, and the left half is rotated by 90 degrees as shown. How are the surface areas of both solids related?



- a) Both have the same value.
- b) The Left is more than the right
- c) The right is more than the left
- d) Difficult to relate

Q.08 Guess the intended function of the following product, which your grandparents may have had in their household.



- a) To make curd
- b) To whip butter to make ghee
- c) To make ice cream
- d) To make butter milk

Q.09 The following image shows a near-future model of a product. Guess the product.



- a) Smell Recorder
- b) Whisper Recorder
- c) Voice Biometric
- d) Breath Analyser

Q.10 These are the Kathakali Mudras to depict different 'Rasas (Emotions)'.
Guess the Rasas they depict from left to right.



- a) Hasya, Shringar, Shant
- b) Shringar, Hasya, Shant
- c) Shant, Hasya, Shringar
- d) Hasya, Shant, Shringar

Q.11 You are aware of the scientific myth that a normal paper normally can't be folded more than 7 times. (Did you ever try it?)

Anyway, this time we will not go to that extreme. Imagine you take a square paper of length 20 cm and fold it 6 times. Each time you fold it, the paper gets creased into smaller and smaller squares. How many such equal squares will be generated after you unfold the paper?

- a) 16
- b) 24
- c) 32
- d) 64

Q.12 Which of the following words in the following pangram are the odd ones out?

**WHEN ZOMBIES ARRIVE, QUICKLY
FAX JUDGE PAT**

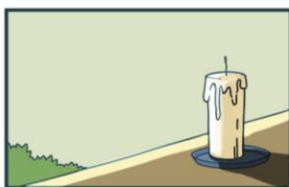
- a) when, arrive
- b) zombies, pat
- c) quickly, fax
- d) zombies, quickly

Q.13 Observe the sequence of mouth shapes from left to right and imagine them moving one after the other. Pick the word from the choices provided that is being spoken by the character.



- a) Channing
- b) Chantal
- c) Chiquitita
- d) Lachimolala

Q.14 Observe the visual narrative below and find the image which best fits the missing frame that completes the story.



(1)



(2)



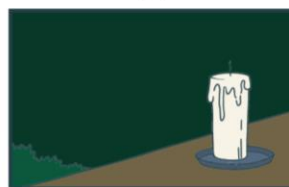
(3)



(4)

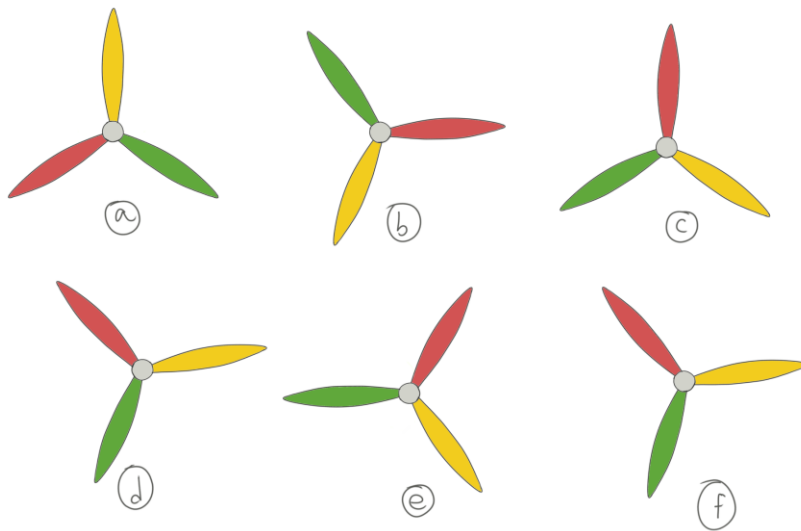


(5)



(6)

Q.15 Observe the fan movement and select the appropriate direction it is moving.

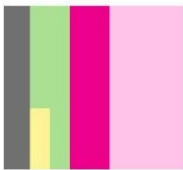


- a) Clockwise
- b) Anticlockwise
- c) Clockwise then Anticlockwise
- d) Anticlockwise then clockwise

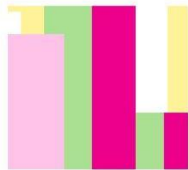
Q.16 Find the right patch that will complete the illustration.



a.)



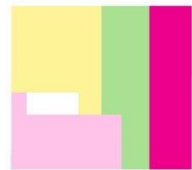
b.)



c.)



d.)

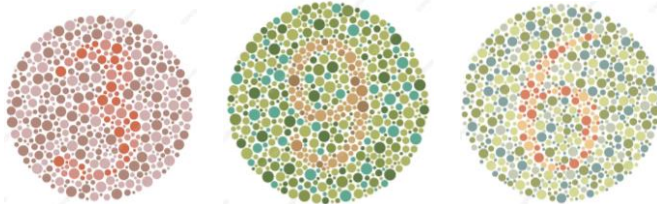


Q.17 The following iconic work belongs to which artist?



- a) Salvadore Dali
- b) Andy Warhol
- c) Jasper Johns
- d) Roy Lichtenstein

Q.18 Please select the correct number sequence as you look at the clusters of coloured dots from left to right.



- a) 895
- b) 388
- c) 888
- d) 396

Q.19 Which of the following colours is the Pantone Colour of the Year for 2025?



a)



b)

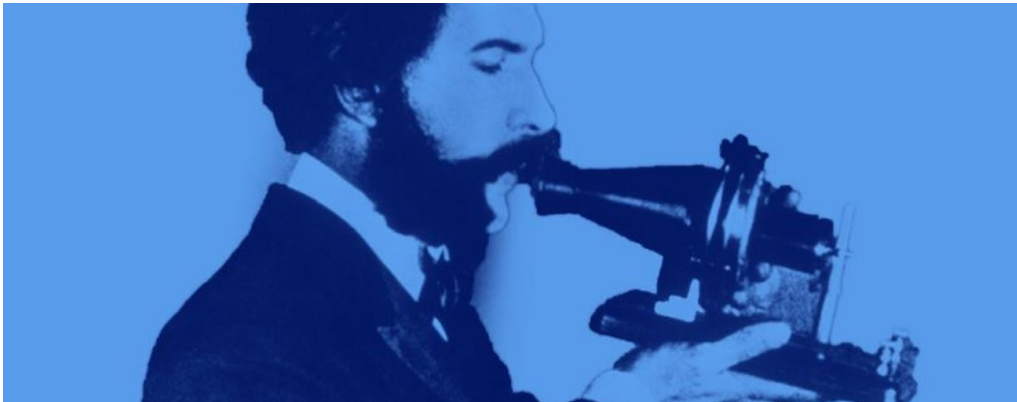


c)



d)

Q. 20 Identify the artefact in the image below based on your visual deduction.



- a) Sound recorder
- b) Musical instrument
- c) Breath analyser
- d) Telephone

Q.21 Identify the country where this event took place.



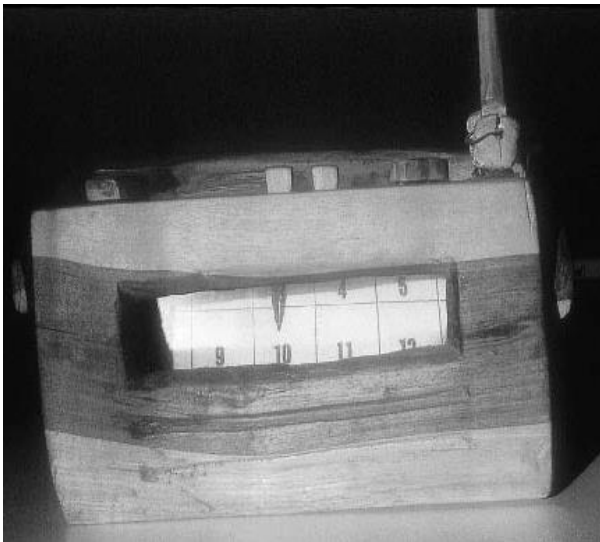
- a) France
- b) India
- c) Israel
- d) Germany

Q.22 Identify the device in the visual below.



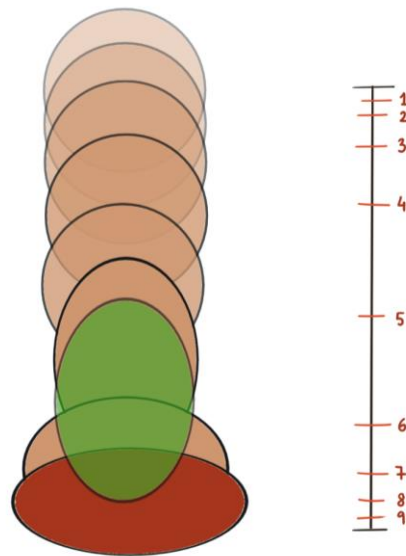
- a) Digital Thermometer
- b) Blood pressure monitor
- c) Biometric using fingerprint
- d) Glucometer

Q.23. Identify this conceptual object.



- a) Table Calender
- b) Daily organizer
- c) Alarm Clock
- d) Radio

Q.24 Which principle of animation does the sequential image below follow?



- a) Ease in and out
- b) Follow through
- c) Squash and Stretch
- d) Overlapping action

Q.25 Below are the images of some of the most iconic global cars. Identify the correct order.



1



2



3



4

- a) 1- Ford Mustang, 2 - Lamborghini Miura, 3 - Ford T, 4 - Porsche 911
- b) 1 - Ford T, 2 - Porsche 911, 3 - Lamborghini Miura, 4 - Ford Mustang
- c) 1 - Ford T, 2 - Volkswagen Beetle, 3 - Lamborghini Miura, 4 - Porsche 911
- d) 1 - Ford Mustang, 2 - Volkswagen Beetle, 3 - Porsche 911, 4 - Lamborghini Miura

End of Section A

Section B - AINT

Section B (75 marks) contains a total of **15 'Answer Is Number Type (AINT)'** questions. For each question, the answer is a real number rounded off to 2 decimal places. No choices will be shown for these questions. Each correct answer will receive **5 marks**. Questions not attempted or answered incorrectly will be given zero.

Questions from 26 to 40 belong to this section.

Q.26 Five of your friends (Liza, Jigyasa, Madhuri, Neena and Sneha) are all engaged. Each is getting married on a Saturday in June. The problem? There are only four Saturdays in June, so you are double-booked for one of the Saturdays. Based on the following clues, can you determine which Saturday that is? (It could be one of the numbers from 1 to 4).

- Jigyasa will get married before Neena, but after Sneha.
- Madhuri is the only one getting married on the second Saturday.
- Sneha and Jigyasa are both bridesmaids in Liza's wedding.

Q.27 Babar Ali is a very creative sculptor. He mainly works with wood. He was given an interesting challenge to carve out a perfect cuboid from a wooden cylinder with a diameter & height of 20 cm, keeping the wood waste to a minimum. (Assume the value of $\pi = 3.14$)

If the density of wood is 0.8 g/cc, what will be the wood waste in kg?



- Q.28** You need a 20 in a hurry, and all you have is a 1.
You can change the number you have into 20 in any of the following ways, but it's going to cost you as follows. What is the cheapest way you can get exactly 20?

(Please represent the response as a sequence using the following ways, e.g. 122)

1. Add 5: Rs 15
2. Add 7: Rs 13
3. Subtract 1: Rs 5
4. Subtract 4: Rs 2
5. Subtract 6: Rs 4
6. Multiply by 3: Rs 8
7. Multiply by 5: Rs 24
8. Divide by 2: Rs 3

- Q.29** Each letter from A to H has one of the eight values listed, and no two letters have the same value. Can you determine the value of A to make all the equations below true?

$$\begin{array}{ccccccc} \mathbf{1} & \mathbf{3} & \mathbf{5} & \mathbf{8} & \mathbf{13} & \mathbf{14} & \mathbf{21} & \mathbf{22} \\ \mathbf{A + E = D} & \mathbf{B + G = A} & \mathbf{C + E = B} & \mathbf{F + G = D} & \mathbf{C + H = E} \end{array}$$

- Q.30** Using two simple calculations, each number on the left is transformed to the one on the right-hand side. What is the missing number for 7?
The calculations are the same for all the transformations.

Hint: If you start thinking with a low number, the second calculation doesn't do anything much.

$$\begin{array}{l} \mathbf{1 \rightarrow 1} \\ \mathbf{3 \rightarrow 9} \\ \mathbf{5 \rightarrow 7} \\ \mathbf{7 \rightarrow ?} \\ \mathbf{9 \rightarrow 9} \end{array}$$

11 → 4

Q.31 A design firm orders three sets of custom tiles: squares, hexagons, and triangles. The total number of tiles is 180. The ratio of squares to hexagons to triangles is 3:5:4. If they use all the square and triangle tiles but only 75% of the hexagons in a large mural, how many tiles are left unused (round to the nearest whole number)?

Q.32 A UI designer is creating icons for a mobile app. On a certain device, the screen width is 1080 pixels, and 6 icons must fit in a single row with equal horizontal spacing. Each icon is a square. There are equal side margins on the left and right of the row, and equal gaps between every pair of adjacent icons. The side margins are twice as wide as the gap between icons. The designer decides that each icon should occupy exactly 12.5% of the total screen width.

What is the width of each gap between two adjacent icons, in pixels?

Q.33 Find the next number in the following sequences.

6, 36, 180, 720, ?

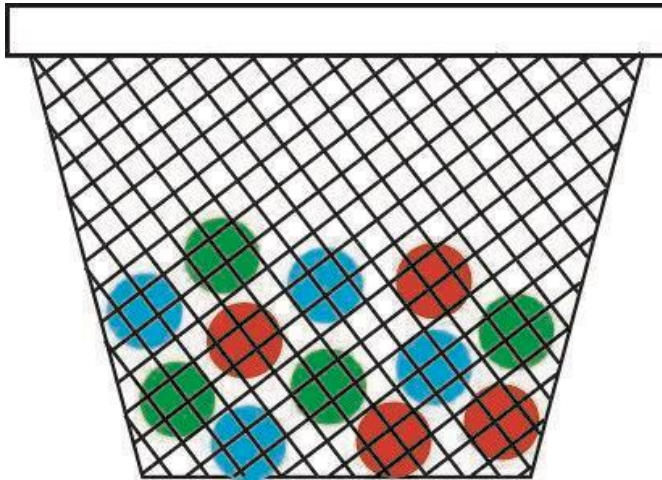
Q.34 Find the next number in the following sequences.

13, 9, 81, 1, ?

Q. 35 The numbers below are increasing according to a specific pattern. What number comes after 61?

1 → 5 → 13 → 29 → 61 → ?

- Q. 36** A box contains 12 plastic balls: 4 red, 4 blue, and 4 green.
If 4 balls are drawn randomly, what is the probability in percentage that the 4-ball set will not have any red balls?



- Q. 37** An exhibition designer lays out a straight line of identical circular stools for an interactive installation along a corridor. Each stool has a diameter of 0.48 m. For safety and comfort, there must be a clear gap of 0.32 m between adjacent stools, measured edge-to-edge.

The front edge of the first stool must be exactly 0.75 m from the entrance door. For safety near the far wall, every stool must be placed so that its back edge is at least 0.90 m away from the wall. The total distance from the door to the far wall along this line is 12.50 m.

The designer wants to use their intuition to create a layout that feels comfortable for visitors approaching the last stool and making the final turn, without crowding the wall.

Stools are placed in a straight line with equal spacing between their centres, and the designer chooses the maximum whole number of stools that still keeps the last stool at a comfortable distance from the wall.

A visitor walks from the door to the exact centre of the last stool in the line. What is the distance, in meters, from the door to the centre of the last stool?

- Q. 38** In a hospital, the average elevator waiting time is 72 seconds. A more empathetic scheduling algorithm is expected to reduce average waiting time by 35% during off-peak hours and by 15% during peak hours. The peak hours account for 40% of the day's rides, and the off-peak hours account for 60%.

What is the new overall average waiting time in seconds weighted by ride proportions?

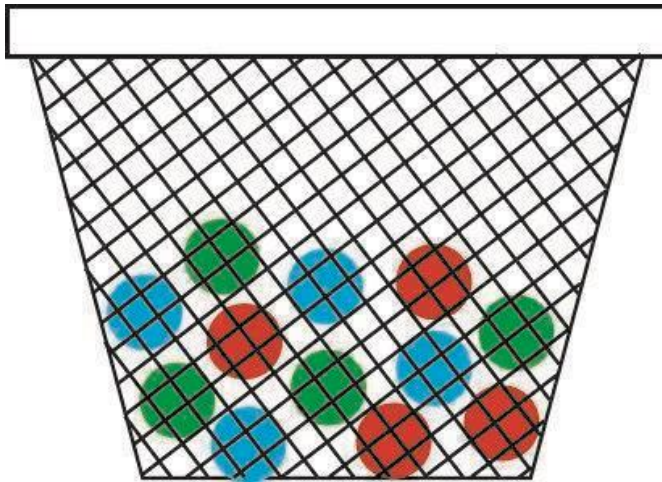
- Q. 39** At a vaccination centre, people currently wait in a single queue for 35 minutes on average.

A service design intervention introduces parallel counters and pre-check, reducing the actual average waiting time by 28%. Studies show that perceived waiting time can be reduced by 20% through environmental changes (such as distraction, information displays, and seating), measured relative to the actual waiting time.

After both interventions, what is the perceived waiting time in minutes?

- Q. 40** A box contains 12 plastic balls: 4 red, 4 blue, and 4 green.

If 4 balls are drawn randomly, what is the probability in percentage that the 4-ball set will have at least 2 blue balls?



End of Section B

Section C - MSQ

Section C (50 marks) contains a total of **10 Multiple Select Questions (MSQ)**. Each question may have one or more than one correct choice(s) out of the given choices. A question is correctly answered if **ALL** the proper choices and **NO** wrong choices are selected for that question. There is **NO NEGATIVE** marking for this section. Each correct answer will receive **5 marks**. Questions not attempted or answered incorrectly will receive zero marks.

Questions from 41 to 50 belong to this section.

Q.41 Charmi, Jai, Sonya and Tariq are walking in a single file through the Amazon forest on a narrow path. Each hopes to spot a particular animal (Iguana, Monkey, Sloth, Toucan) and is carrying a specific item (binoculars, camera, compass, sketchpad).

Using the following clues, what order are they walking in, and what is Tariq carrying, and what animal does Sonya hope to see?

1. The person who is first is looking for a toucan with their binoculars.
2. The person who wants a picture of a monkey for Instagram is not in the middle.
3. The person who wants to see an iguana cannot draw.

4. Charmi has already seen lots of iguanas and sloths, so she is looking for something else.
5. Sonya is right behind the leader with her sketchpad ready.
6. Jai thinks toucans are amazing, but is hoping to see a different animal.
7. Tariq is responsible for ensuring they don't get lost.



- a) Walking order, first to last: Charmi, Sonya, Tariq, Jai
- b) Walking order first to last: Tariq, Sonya, Jai, Charmi
- c) Tariq is carrying a compass, and Sonya wants to see a sloth
- d) Tariq is carrying the binoculars.

Q.42 A priceless blueprint for a revolutionary, eco-friendly chair was stolen from the design studio just before the international exhibition.

There are four suspects:

Alex (the head designer), Priya (the materials specialist), Ben (the animator), and Fatima (the visiting curator). Each suspect was in a different part of the building during the time of the incident: the workshop, the materials lab, the motion studio, and the gallery. There could be only one person in each space.

Clues:

The person in the gallery has an alibi provided by the security guard.

Ben was not in the motion studio.

Priya was in the materials lab.

Fatima was not in the gallery.

The blueprint was taken from the workshop.

Who could be the possible thief/thieves who stole the blueprint?

- a) Alex
- b) Ben
- c) Fatima
- d) Priya

Q.43 A community park used mostly by elderly people has very few shaded seating areas. As a designer, what is the most appropriate step?

- a) Sketch a new layout with more benches and trees
- b) Observe how people currently use different areas throughout the day
- c) Immediately propose bright-colored furniture to make the park more attractive
- d) Talk to different user groups (elderly, children, caregivers) about their needs

Q.44 What does K stand for or mean in the colour model CMYK used for printing?

- a) Key
- b) Key Plate
- c) Kobicha
- d) Black

Q.45 A child's hospital ward feels intimidating and cold. Which interventions show both empathy and design sensitivity?

- a) Introduce warm, soothing colours and playful graphics
- b) Add complex abstract patterns with sharp contrasting lines
- c) Design wayfinding with friendly icons that children can understand

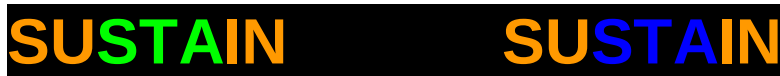
d) Increase harsh white lighting to make everything clearly visible

Q. 46 Which option is not part of the complementary colour scheme used in the words below to be printed on a brochure?



a)

b)



c)

d)

Q. 47 A designer is creating an app interface for color-blind users. Which measures show understanding of colour perception limitations?

a) Avoid relying only on colour to convey information

b) Use patterns, labels, or icons in addition to colour

c) Use only red and green to differentiate important steps

d) Test the interface with simulated colour-vision conditions or real users

Q. 48 The Design studios that shaped automotive history are

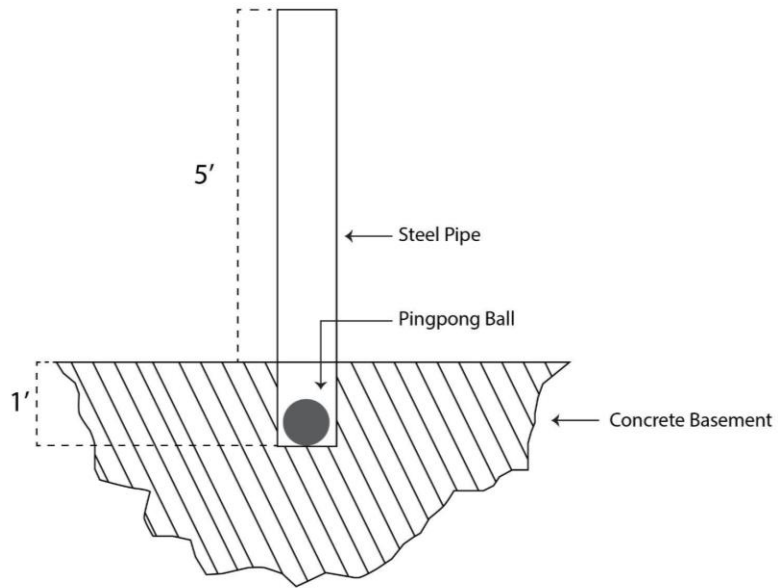
a) Toyota, Nissan, Honda

b) Faurecia, Parrot, Renault.

c) Pininfarina and Bertone,

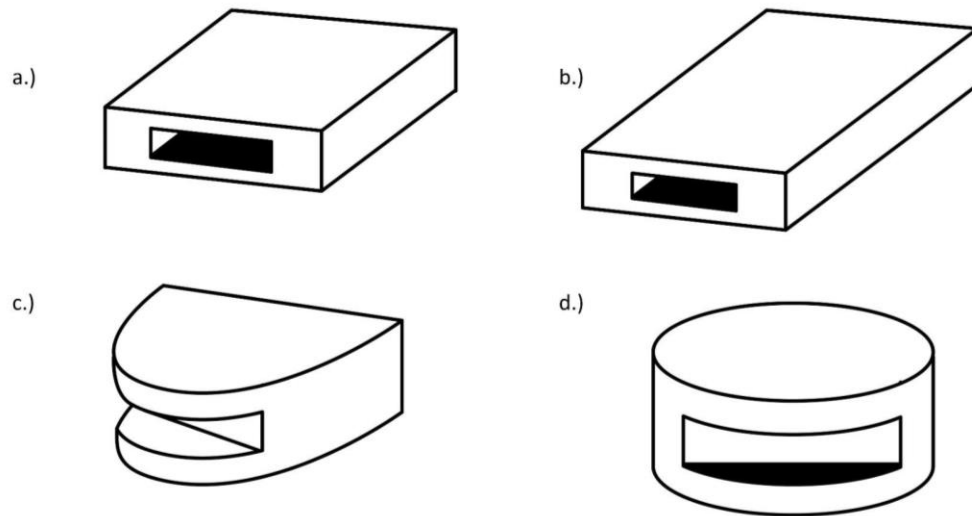
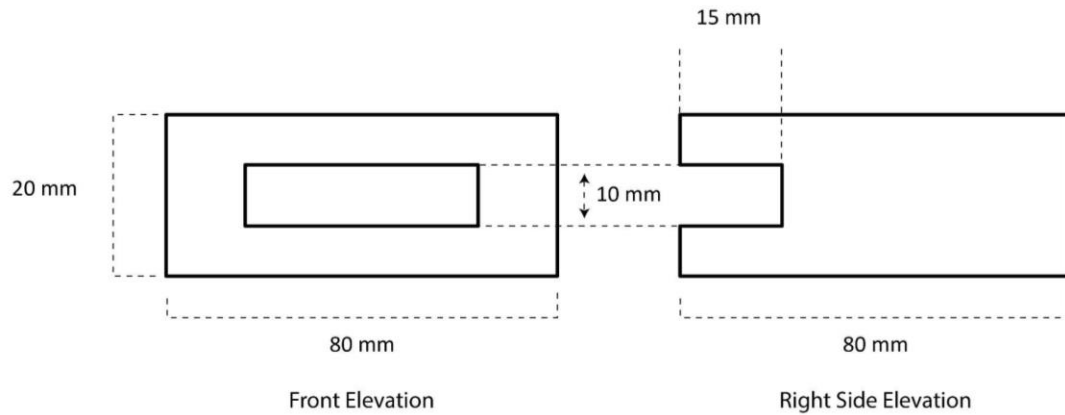
d) Italdesign Giugiaro

Q.49 How could you take out the ping pong ball from the 6-foot-long steel pipe of 1.5-inch diameter grouted 1 foot in the concrete basement, as shown?



- a) Throw iron dust inside the pipe and use a strong magnet
- b) Use a chain of straws
- c) Pour a bucket of water into the pipe
- d) Use a vacuum plug on a long stick

Q. 50 Study the orthographic views of a wooden block carefully and select the correct option/s from its 3D views.



a) a.) b) b.) c) c.) d) d.)