

Registrar IIT Bombay

Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

Question Paper Name :	Jr Administrative Assistant 9th Aug 2025 Shift 2
Subject Name :	Jr Administrative Assistant
Creation Date :	2025-08-09 18:00:21
Duration :	120
Total Marks :	75
Display Marks:	Yes
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No

Jr Administrative Assistant

Group Number :	1
Group Id :	10642640
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	75

Jr Administrative Assistant

Section Id :	10642640
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	68
Number of Questions to be attempted :	68

Section Marks :	75
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	106426142
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 1064263193 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A triangle **ABC** has angle **A** and angle **C** equal to 45 degree each. Side **BC** of the triangle is 300 m in length. A landlord bought a square piece of land with side equal to the length **AC** of the given triangle. If the cost of the land is rupees 3000 per square meter, the total cost of the land paid by the landlord in rupees is

Options :

1. ✓ 54 crore
2. ✗ 5.4 crore
3. ✗ 9.0 lakh
4. ✗ 90 crore

Question Number : 2 Question Id : 1064263194 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

In order to obtain 99, the number that should be added to 288 is

Options :

1. ✗ 189
2. ✓ -189
3. ✗ 389
4. ✗ -389

Question Number : 3 Question Id : 1064263195 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Salaries of Ganesh and Pradeep are in the ratio 10:8. Both get an increase of 5% in their salaries. After the increase, the salary of Ganesh is rupees 2,50,005 per month. The original salary of Pradeep per month in rupees was

Options :

1. ✓ 190480
2. ✗ 190000
3. ✗ 200000
4. ✗ 180360

Question Number : 4 Question Id : 1064263196 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The average monthly income of a family of five earning members was rupees 60,000. One of the daughters of the family left home after getting married. Thus, the average monthly income of the family came down to rupees 50,000. The monthly income of the married daughter, in rupees, is

Options :

1. ✘ 10000
2. ✘ 110000
3. ✔ 100000
4. ✘ 55000

Question Number : 5 Question Id : 1064263197 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

In an alloy, the ratio *by weight* of copper and zinc is 5:2. If 1.250 kg of zinc is mixed with 17.5 kg of this alloy to form a new form of alloy, then the ratio *by weight* of copper and zinc in this new form of alloy is

Options :

1. ✘ (1:2)
2. ✔ (2:1)
3. ✘ (2:3)
4. ✘ (3:2)

Question Number : 6 Question Id : 1064263198 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A box contains 20 electric bulbs, out of which 4 are defective. Two balls are chosen at random without replacement from this box. The probability that at least one of them is defective, is

Options :

1. ✘ (4/19)
2. ✔ (7/19)
3. ✘ (12/19)
4. ✘ (21/95)

Question Number : 7 Question Id : 1064263199 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A well has to be dug that is to be 100 m deep and an inner diameter of 49/11 m. The cost of plastering the inner curved surface of the well (in rupees) at rupees 200 per square meter is

Options :

1. ✘ 44545
2. ✘ 560000
3. ✘ 311818
4. ✔ 280000

Question Number : 8 Question Id : 1064263200 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

$$3x^2 - 7y + 10 = 20$$

Given that $2x^2 - 8y + 20 = 10$ Now consider an equilateral triangle with one side equal to x m. The area of the triangle in square meters is

Options :

1. ✘ $\frac{15}{16} \times \sqrt{3}$
2. ✔ $\frac{15}{4} \times \sqrt{3}$
3. ✘ $\frac{12}{5}$
4. ✘ $\frac{13}{8} \times \sqrt{3}$

Question Number : 9 Question Id : 1064263201 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Recently, **Kamla Persad-Bissessar** has been elected as the prime minister of which country?

Options :

1. ✘ Barbados
2. ✘ Cuba
3. ✔ Trinidad and Tobago
4. ✘ Jamaica

Question Number : 10 Question Id : 1064263202 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Tadoba National Park is in this state

Options :

1. ✘ Gujarat
2. ✘ Madhya Pradesh
3. ✔ Maharashtra
4. ✘ Goa

Question Number : 11 Question Id : 1064263203 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The Lal Bahadur Shastri National Academy of Administration is located in

Options :

1. ✔ Mussoorie
2. ✘ Jammu
3. ✘ Delhi
4. ✘ Hyderabad

Question Number : 12 Question Id : 1064263204 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The first law officer of India is

Options :

1. ✘ Law Minister of Government of India
2. ✘ Chief Justice of India
3. ✔ Attorney General of India
4. ✘ Advocate General

Question Number : 13 Question Id : 1064263205 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not a source of revenue of the Central Government of India?

Options :

1. ✔ Agricultural Tax
2. ✘ Income Tax
3. ✘ Excise duty
4. ✘ Corporate Tax

Question Number : 14 Question Id : 1064263206 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Full form of the scheme **IMPRINT** is

Options :

1. ✓ Impacting Research Innovation and Technology
2. ✗ Impacting Research for Industrial Technology
3. ✗ Important Rural Indian Technology
4. ✗ Impacting Research Invention and Technology

Question Number : 15 Question Id : 1064263207 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Full form of **ANRF** is

Options :

1. ✓ Anusandhan National Research Foundation
2. ✗ Anusandhan National Research Funding
3. ✗ Anusandhan National Reforms Foundation
4. ✗ Alternate National Research Forums

Question Number : 16 Question Id : 1064263208 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

From the given list of IIT Bombay alumni, who has/have been honoured with Padma Shri Award 2025 is/are:

[A] Shri Nandan Nilekani; [B] Dr. Nitin Nohria; [C] Dr. Chetan Chitnis; [D] Shri Ashok Kumar Mahapatra; [E] Shri M D Srinivas

Options :

1. ✗ [A] and [B]
2. ✗ [D] and [E]
3. ✓ [B] and [C]
4. ✗ [C] and [D]

Question Number : 17 Question Id : 1064263209 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Next **Hindi Diwas** falls on this day of September 2025

Options :

1. ✗ Second Saturday
2. ✓ Second Sunday
3. ✗ Second Wednesday
4. ✗ Third Thursday

Question Number : 18 Question Id : 1064263210 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Renaming of IIT Bombay's main building to the "Nandan Nilekani Main Building" is associated with

Options :

1. ✓ Nandan Nilekani's 50th year of association with IIT Bombay
2. ✗ Birthday of Nandan Nilekani
3. ✗ Nandan Nilekani's contribution to re-build Main Building and cafeteria
4. ✗ Celebration of his generous contribution to IIT Bombay on foundation day of Infosys

Question Number : 19 Question Id : 1064263211 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

You need to quickly move certain contents of a folder named "Student" from your internal SSD (Partition 1) to an external USB drive (Partition 2) for an auditor. The auditor requires:

- Original file timestamps must be preserved.
- Only final versions of specified contents should be transferred, no temporary or draft files.

The best method for meeting both these requirements is

Options :

1. ✗ Copy-paste the folder in File Explorer
2. ✗ Compress to ZIP, transfer, extract, then delete excess files
3. ✗ Use cloud sync (such as OneDrive/Dropbox/Google Drive)
4. ✓ Select approved files "Cut" and then "Paste" in destination

Question Number : 20 Question Id : 1064263212 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A colleague has attempted to install the Android version of Microsoft Word on their Linux computer. Which of the following best explains why this won't work as intended?

Options :

1. ✗ Android apps are designed for ARM processors while most Linux systems use x86 architecture
2. ✓ Android and Linux applications require different runtime environments
3. ✗ This is not possible, Microsoft does not provide Word for Android devices
4. ✗ The Android version of Word lacks many necessary features to run on any desktop system

Question Number : 21 Question Id : 1064263213 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

You wanted to visit the IITB page, and typed <https://www.iitb.ac.in> and a popup says "Click here to visit the updated site."

What's the safest response?

Options :

1. ✘ Click the link (websites keep changing) and get on with your work
2. ✔ Retype the address carefully in the address bar to reproduce the behaviour
3. ✘ Call the number shown on the pop-up and follow directions to avoid confusion
4. ✘ Restart your computer

Question Number : 22 Question Id : 1064263214 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of these is most likely a sign that a website is fake?

Options :

1. ✔ It looks exactly like the page you visited yesterday, and puts your username in a login box, shows your name in the top right corner, and asks for your password
2. ✘ It looks exactly like the page you visited yesterday, except that the background color is different and the advertisements are different
3. ✘ It loads a lot slower than usual since a malware is installed
4. ✘ The URL starts with "https://"

Question Number : 23 Question Id : 1064263215 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

If you want to prevent users from entering invalid data in a cell (e.g., only allowing numbers between 1 and 100), which Spreadsheet tool should you use?

Options :

1. ✘ Freeze Panes
2. ✔ Data Validation
3. ✘ Filter
4. ✘ Text to Columns

Question Number : 24 Question Id : 1064263216 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

In spreadsheets, what is the purpose of the **VLOOKUP** function?

Options :

1. ✘ To vertically align text within a cell
2. ✔ To search for a value in the first column of a table and return a corresponding value from another column
3. ✘ To count the number of cells that contain numerical data
4. ✘ To merge multiple cells into one

Question Number : 25 Question Id : 1064263217 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

In spreadsheets, how can you ensure that text in multiple cells is consistently aligned both vertically centered and horizontally left-aligned at the same time?

Options :

1. ✘ Change the font style to Bold and apply Merge & Center
2. ✔ Use the Alignment tab in Format Cells and set Horizontal to Left and set Vertical to Center
3. ✘ Adjust the column width and apply Wrap Text
4. ✘ Apply Conditional Formatting with a left-aligned rule Word

Question Number : 26 Question Id : 1064263218 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

You need to create a project report with a structured list of expenses, including item names, costs, and categories. Subtotals are required and your manager is constantly changing the costs for different co-workers. The final document has a commentary which is written by the manager and printed from a Word document.

Which of the following approach is most efficient?

Options :

1. ✘ Create the expense list in a word processing software using a table, entering data and calculating subtotals with a calculator
2. ✔ Build the expense list in a shared spreadsheet, perform calculations, copy paste the final data into a word processing software
3. ✘ Quickly type everything in a word processing software since your typing skills are good and can always be improved.
4. ✘ Use PowerPoint's chart feature to organize the data, then copy it into Word.

Question Number : 27 Question Id : 1064263219 Question Type : MCQ Option Shuffling : Yes Correct Marks : 1 Wrong Marks : 0

You're drafting a legal document in Microsoft Word with numbered clauses. After "Clause 3," you insert a sub-section that should start at "1." However, Word auto-numbers it as "Clause 4" instead. How do you fix this?

Options :

1. ✘ Manually type "1." Word will auto adjust the rest of the list later using ChatGPT or CoPilot.
2. ✔ Right-click the incorrect number and look for an option such as "Restart at 1" or "Set Numbering Value"
3. ✘ Delete the list and re-type everything
4. ✘ Press Tab to demote the sub-section

Question Number : 28 Question Id : 1064263220 Question Type : MCQ Option Shuffling : Yes Correct Marks : 1 Wrong Marks : 0

Your manager wants a slide with:

- 6 sub-bullets under Main Point 1 (causing the text to shrink automatically) but change that to 5 later on
 - 1 sub-bullet under Main Point 2 (where text remains normal size).
- How do you ensure consistent font sizes while meeting their request?

Options :

1. ✘ Manually adjust the font size of all sub-bullets to match.
2. ✘ Use the "Format Painter" to copy the smaller text style to the single sub-bullet.
3. ✔ Disable "AutoFit" for the text box (Right-click → "Format Shape" → "Do not AutoFit").
4. ✘ Replace bullets with numbered lists to avoid resizing issues.

Question Number : 29 Question Id : 1064263221 Question Type : MCQ Option Shuffling : Yes Correct Marks : 1 Wrong Marks : 0

You are animating a slide with three bullet points:

- Bullet 1 (should appear first)
- Bullets 2 & 3 (should appear together after Bullet 1).

How do you configure this in the Animation Pane?

Options :

1. ✔ Apply the same "Fade" animation to all bullets, then set Bullets 2 & 3 to "Start With Previous."
2. ✘ Use "Appear" for Bullet 1 and "Fly In" for Bullets 2 & 3 to differentiate them.
3. ✘ Group Bullets 2 & 3 as an image and animate them together.
4. ✘ Set all animations to "Start On Click" and quickly click twice during the presentation for Bullets 2 & 3.

Question Number : 30 Question Id : 1064263222 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The correct passive voice of the sentence "Who has done this?" is

Options :

1. ✘ This was done how?
2. ✘ Was this done by someone?
3. ✔ By whom was this done?
4. ✘ Whom has done this?

Question Number : 31 Question Id : 1064263223 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The synonym of "vanguard" is

Options :

1. ✘ watchman
2. ✘ protector
3. ✘ security man
4. ✔ forefront

Question Number : 32 Question Id : 1064263224 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The correctly spelt word is

Options :

1. ✔ accommodation
2. ✘ acomodation
3. ✘ accomodation
4. ✘ accomodation

Question Number : 33 Question Id : 1064263225 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The most useful form of "Newton discovered that the force of gravitation made apples fall" in the form of a law of physics is

Options :

1. ✘ Newton discovered that the force of gravitation had made apples fall
2. ✘ Newton discovered that the force of gravitation would make apples fall
3. ✘ Newton discovered that the force of gravitation has made apples fall
4. ✔ Newton discovered that the force of gravitation makes apples fall

Question Number : 34 Question Id : 1064263226 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The term “curtain raiser” refers to

Options :

1. ✘ One who raises curtains
2. ✘ A modern drama of serious nature
3. ✘ Super natural agency in drama which reveals the truth
4. ✔ A short play before the main play

Question Number : 35 Question Id : 1064263227 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A school invited applications from students for the distribution of cycles. A complete sentence can be formed by combining the given options. Without any changes in the given text, which option makes the sentence erroneous?

Options :

1. ✘ The number of cycles
2. ✔ being requested were so large
3. ✘ that the school had to
4. ✘ stop issuing application forms

Question Number : 36 Question Id : 1064263228 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

AIR-1 in JEE (Advanced) -2025 has been secured by

Options :

1. ✘ Ved Lahoti
2. ✔ Rajit Gupta
3. ✘ Majid Mujahid Hussain
4. ✘ Parth Mandar Vartak

Question Number : 37 Question Id : 1064263229 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Quantum computing is

Options :

1. ✔ an emergent field that harnesses the unique qualities of quantum mechanics to solve problems beyond the ability of most powerful classical computers
2. ✘ a developed field that uses concepts of quantum physics to compute solutions of complex equations
3. ✘ a field of computer science and engineering, and quantum energy
4. ✘ an old discipline which has helped significantly in quantum chemistry and quantum physics

Question Number : 38 Question Id : 1064263230 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

On a Mumbai city tour, a taxi averages 50 km/h for 50% of the time, 40 km/h for 40% of it, and 20 km/h for the remaining. The average speed in km/h for the whole journey is

Options :

1. ✘ 55
2. ✘ 50
3. ✔ 40
4. ✘ 35

Question Number : 39 Question Id : 1064263231 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

If a:b is 3:6 and b:c is 2:3, then a:b:c is

Options :

1. ✘ $(\sqrt{2})^2 : 3 : \sqrt{36}$
2. ✘ $2 : (3 \times \sqrt{16}) : 6$
3. ✔ $6 : 12 : \sqrt{324}$
4. ✘ $3 : 6 : \sqrt{9}$

Question Number : 40 Question Id : 1064263232 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The option which has the same relationship as (8, 88, 160) is

Options :

1. ✘ (8, 70, 99)
2. ✘ (9, 90, 150)
3. ✔ (9, 99, 180)
4. ✘ (10, 90, 170)

Question Number : 41 Question Id : 1064263233 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The word **TERMINATION** is coded as 12345671586. The code for the word **MOTION** is

Options :

1. ✘ 438586
2. ✘ 458586
3. ✔ 481586
4. ✘ 485186

Question Number : 42 Question Id : 1064263234 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A and **B** are married couple. **X** and **Y** are brothers. **X** is the brother of **A**. **Y** is related to **B** as

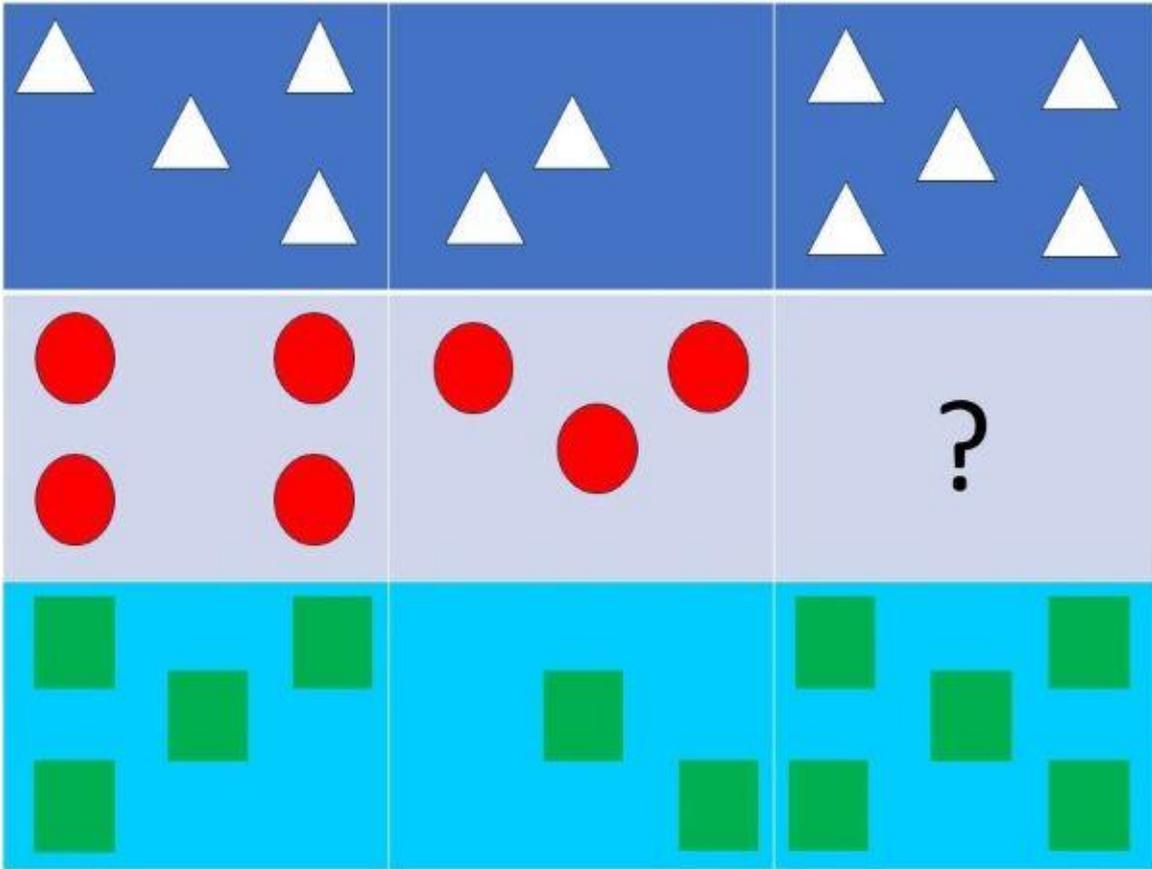
Options :

1. ✔ Brother-in-law
2. ✘ Brother
3. ✘ Cousin
4. ✘ Son

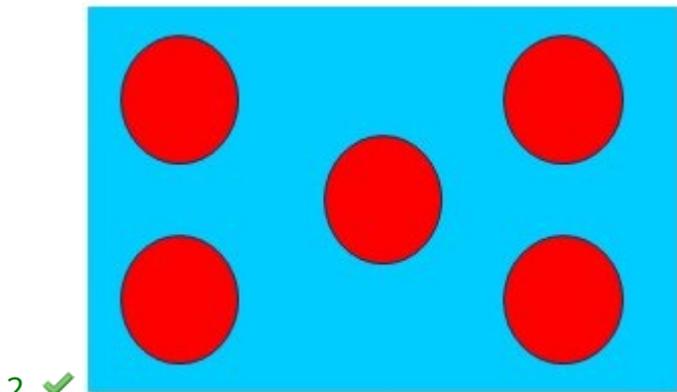
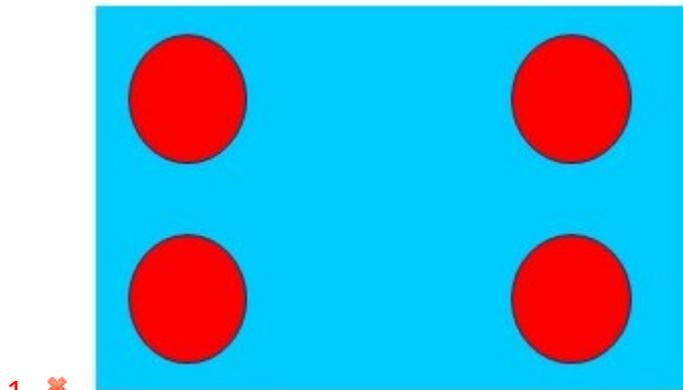
Question Number : 43 Question Id : 1064263235 Question Type : MCQ Option Shuffling : Yes

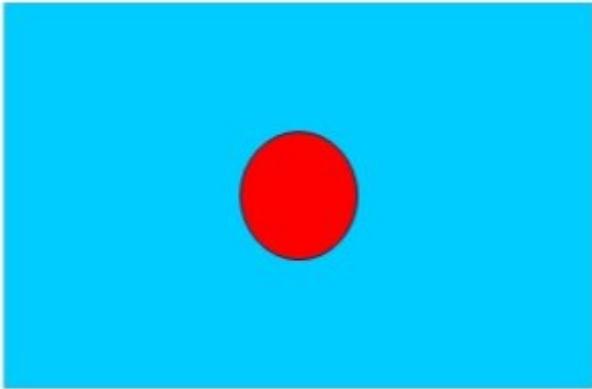
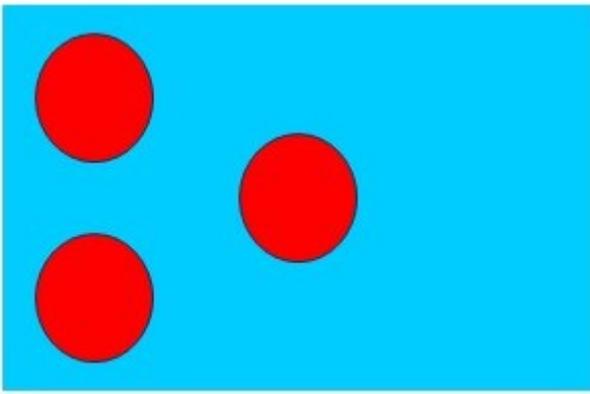
Correct Marks : 1 Wrong Marks : 0

Select a figure from the options which will complete the given figure matrix.



Options :



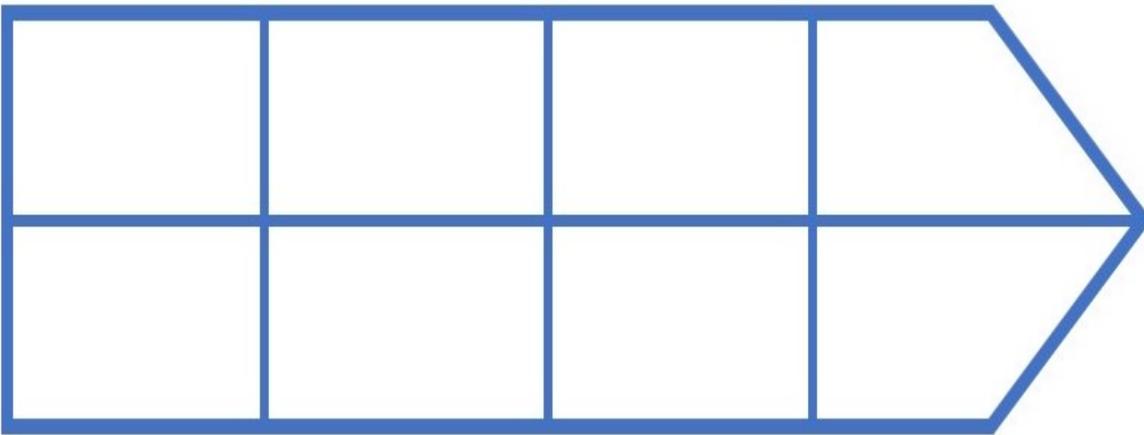


4. ✘

Question Number : 44 Question Id : 1064263236 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The number of rectangles in the given figure is



Options :

1. ✘ 6
2. ✘ 14
3. ✔ 18
4. ✘ 9

Question Number : 45 Question Id : 1064263237 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of these is considered volatile memory?

Options :

1. ✘ ROM
2. ✘ SSD
3. ✘ Flash
4. ✔ RAM

Question Number : 46 Question Id : 1064263238 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is not an anti-virus software

Options :

1. ✘ AVG
2. ✘ Kasperskey
3. ✔ Morton
4. ✘ McAfee

Question Number : 47 Question Id : 1064263239 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which protocol is used to transfer files on the internet?

Options :

1. ✔ FTP
2. ✘ UDP
3. ✘ SMTP
4. ✘ TCP

Question Number : 48 Question Id : 1064263240 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which of the following is likely not a sign of a phishing attempt?

Options :

1. ✔ Request to visit a physical bank branch
2. ✘ Poor grammar
3. ✘ Random characters in email address
4. ✘ Urgent request for personal information

Question Number : 49 Question Id : 1064263241 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

$2^{3^2} + 3^{2^3} + 4^{2^2}$ is equal to

Options :

1. ✘ 1049
2. ✘ 531
3. ✔ 7329
4. ✘ 1497

Question Number : 50 Question Id : 1064263242 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Study the following arrangement of the English alphabets

ABDCEFHGIJLKMNPQRSTUUVWXYZ,

Following this arrangement, the missing digits **XY** in **12XY56** are

Options :

1. ✘ 34
2. ✔ 43
3. ✘ 44
4. ✘ 68

Question Number : 51 Question Id : 1064263243 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The number of letters skipped between adjacent letters in the given sequence is two. The correct option with this property is

Options :

1. ✔ TWZCFIL
2. ✘ GTHKNPRT
3. ✘ SVZJGJN
4. ✘ ZCDKMPR

Question Number : 52 Question Id : 1064263244 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

An autonomous institute advertises for the post of Registrar. The institute follows 5 % marks relaxation to posts reserved for SC and ST candidates. In a written test, the qualifying score for the selection of Registrar for interview for UR candidates was fixed at 60%. Examine the given scores out of a maximum of 200 and choose a correct option on shortlisted candidates for the interview.

Manoj Sharma (UR): 144

Ambuj Kumar (OBC): 118

Pritesh Kumar (SC): 112

Gemini Kaushal (SC): 160

Jasmine Kumari (ST): 114

Bhargav Dev (SC): 122

Options :

1. ✓ Manoj Sharma, Gemini Kaushal, Bhargav Dev
2. ✗ All of the given candidates
3. ✗ Manoj Sharma, Gemini Kaushal, Bhargav Dev, and Ambuj Kumar
4. ✗ Manoj Sharma, Gemini Kaushal, Bhargav Dev, Ambuj Kumar and Jasmine Kumari

Question Number : 53 Question Id : 1064263245 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

At 3 PM, if the minute hands in a watch points towards the North-East, then the hour hand will point towards

Options :

1. ✗ South
2. ✗ South-West
3. ✗ North-West
4. ✓ South-East

Question Number : 54 Question Id : 1064263246 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The most appropriate synonym of **Generic** is

Options :

1. ✗ Specific
2. ✗ Definite
3. ✓ Universal
4. ✗ Precise

Question Number : 55 Question Id : 1064263247 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Choose the **CORRECT** combination of Direct and Indirect speech

Options :

1. ✘ Direct: The boy asked, "Where do you stay?"

Indirect: The boy inquired where I had stayed

2. ✘ Direct: Sophie said, 'Alas! 'I am ruined'

Indirect: Sophie explained that she was ruined.

3. ✔ Direct: Bucky said to Steve, "Do you hear me?"

Indirect: Bucky asked Steve if he heard him.

4. ✘ Direct: I say to her, "I will not talk to you"

Indirect: I told her that I would not talk to her.

Question Number : 56 Question Id : 1064263248 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

What should be avoided at workplace?

Options :

1. ✘ networking with people outside of your cubicle

2. ✘ being open-minded

3. ✔ afraid to ask questions

4. ✘ not to bring emotions into the office

Question Number : 57 Question Id : 1064263249 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A man introduces a woman as the daughter of the brother of her father. How is the woman related to the man?

Options :

1. ✘ Nephew

2. ✘ Son

3. ✔ Cousin

4. ✘ Uncle

Question Number : 58 Question Id : 1064263250 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The biometric attendance is not associated with

Options :

1. ✘ fingerprint

2. ✘ face recognition

3. ✘ iris scan

4. ✔ signature

Question Number : 59 Question Id : 1064263251 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

A professor in Department of Biosciences and Engineering has four PhD students in their second year after receiving CSIR Junior Research Fellowship. Each month, 30 % of the total fellowship amount (without HRA and contingencies) of these four students was withheld as security deposit. The fellowship amount (in rupees) credited per month to each PhD student after this deduction is

Options :

1. ✓ 25900
2. ✗ 36000
3. ✗ 29400
4. ✗ 23000

Question Number : 60 Question Id : 1064263252 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Perna had dinner in a restaurant of a hotel where the room tariff is rupees 10000 per night. The total bill paid for dinner was rupees 9440. The amount of GST paid in rupees with Input Tax Credit was

Options :

1. ✗ 1699
2. ✗ 450
3. ✓ 1440
4. ✗ 1011

Question Number : 61 Question Id : 1064263253 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The correct option about Section 87A Income Tax Rebate to resident individuals is

Options :

1. ✗ It provides eligible taxpayers with a full income tax rebate if their total income is below 9 lakh under the new tax regime
2. ✗ It provides eligible taxpayers with a full income tax rebate if their total income is below 7 lakh under the old regime.
3. ✗ For Assessment Year 2024-25, if an individual's total taxable income is up to Rs.7 lakh, (s)he will be eligible for rebate up to Rs.35,000
4. ✓ For Financial Year 2025-26, if an individual's total taxable income is up to Rs.12 lakh, (s)he will be eligible for rebate up to Rs.60,000

Question Number : 62 Question Id : 1064263254 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The plastic connector for Ethernet cable is

Options :

1. ✘ RJ11
2. ✔ RJ45
3. ✘ RJ306
4. ✘ RJ29

Question Number : 63 Question Id : 1064263255 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Which option is **NOT** associated with discipline?

Options :

1. ✘ to train somebody to obey and to behave in a controlled way
2. ✘ to punish somebody
3. ✔ to cut trees for beautification
4. ✘ consistent behaviour aimed at achieving goals

Question Id : 1064263256 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (64 to 65)

Question Label : Comprehension

Examine the given Table carefully and choose correct option in questions

Sequence Number	Property I	Property II	Property III
	(P1)	(P2)	(P3)
SN1	723	0.5	0
SN2	$\frac{\sqrt{3}}{2}$	6.57	6
SN3	9000	$\frac{\sqrt{3}}{2}$	1
SN4	$\frac{\sqrt{3}}{2}$	1	0

Sub questions

Question Number : 64 Question Id : 1064263257 Question Type : MCQ Option Shuffling : Yes Correct Marks : 1 Wrong Marks : 0

Choose the **CORRECT** option

Options :

- ✘ Sequence SN1 is: 30% of 2410; $\cos 60$; $\left(1 - \frac{8}{7}\right) \times \left(10 - \frac{2/5}{5/2}\right)$
- ✔ Sequence SN2 is: $\sin 60$; $\left(100 - \frac{10}{7}\right) \times \left(1 - \frac{2/5}{3/7}\right)$; $5 + \sin^2\theta + \cos^2\theta$
- ✘ Sequence SN3 is: $\sqrt{81000000}$; $\sin 30$; $\tan 45$
- ✘ Sequence SN4 is: $\cos 30$; $1 + 1/2$; $\log 1$

Question Number : 65 Question Id : 1064263258 Question Type : MCQ Option Shuffling : Yes Correct Marks : 1 Wrong Marks : 0

The value of

$(P1 \text{ of SN1}) + \sqrt{3} \times (P2 \text{ of SN3}) + \sqrt{3} \times (P3 \text{ of SN4}) + 6 \times \sqrt{3} \times (P1 \text{ of SN4})$ is

Options :

- ✘ 735
- ✔ 733.5

3. ✘ 735.5

4. ✘ 729.5

Question Id : 1064263259 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (66 to 67)

Question Label : Comprehension

Department of Chemical Engineering has put up a special proposal (in addition to annual funds allocation) to institute authorities to fund the purchase of the following equipments including maintenance for a period of 3 years.

Equipment	Cost in Lakh Rupees	Maintenance (in % of the cost) per year
Spectrophotometer	14	5
Conductometer	5	4
pH meter	3	3
Printer	2	2

Sub questions

Question Number : 66 Question Id : 1064263260 Question Type : MCQ Option Shuffling : Yes Correct Marks : 1 Wrong Marks : 0

The total cost of the special proposal in Lakh Rupees is

Options :

1. ✔ 27.09

2. ✘ 25.03

3. ✘ 38

4. ✘ 24

Question Number : 67 Question Id : 1064263261 Question Type : MCQ Option Shuffling : Yes Correct Marks : 1 Wrong Marks : 0

The cost of a spectrofluorometer is 10% more than the total proposed equipments cost given in the Table. The company offers free maintenance for spectrofluorometer for an initial period of three years. The institute authorities asked the Head of the department to purchase Spectrofluorometer from the allocated department annual funds of 2 crore rupees. The funds available (in crore rupees) from the allocated annual budget after the purchase of spectrofluorometer will be

Options :

1. ✘ 1.76

2. ✘ 1.7497

3. ✔ 1.736

4. ✘ 1.9736

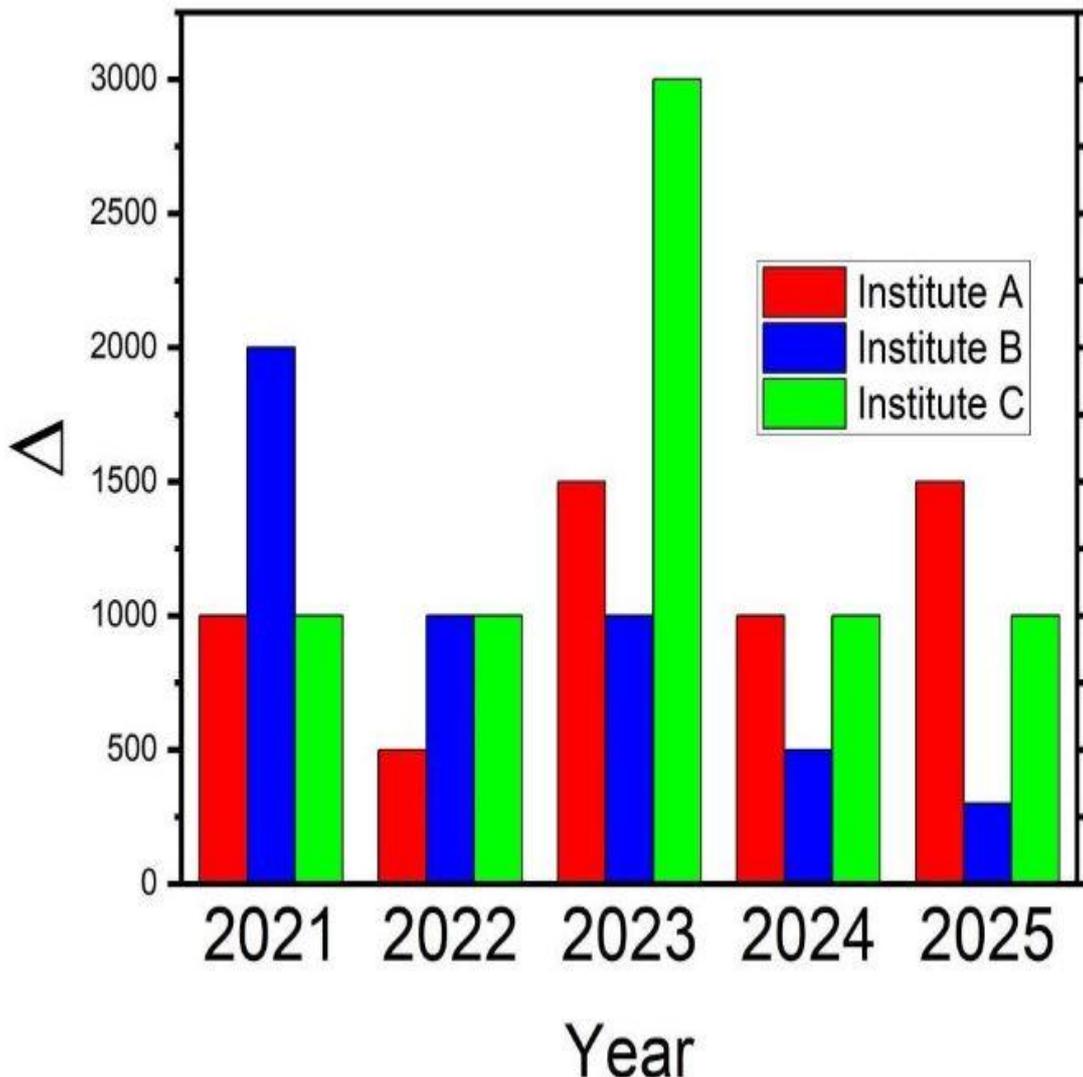
Question Id : 1064263262 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (68 to 69)

Question Label : Comprehension

Enrolment in institutes A, B and C started in the year 2020. The numbers enrolled in these three institutions in the year 2020 are given below. In the given figure, Δ represents the change in the number of students enrolled at the entry level compared to that in the year 2020. No student left the institute from 2020 to 2025.

Year	Students in Institute A	Students in Institute B	Students in Institute C
2020	11000	12000	7000



Sub questions

Question Number : 68 Question Id : 1064263263 Question Type : MCQ Option Shuffling : Yes Correct Marks : 1 Wrong Marks : 0

The total number of students in these institutes during year 2023 was

Options :

- ✘ Institute A: 1000; Institute B: 500; Institute C: 1000
- ✘ Institute A: 14000; Institute B: 16000; Institute C: 12000
- ✔ Institute A: 47000; Institute B: 52000; Institute C: 33000
- ✘ Institute A: 47000; Institute B: 66500; Institute C: 42500

Question Number : 69 Question Id : 1064263264 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The number of B. Tech. students in these institutions, in any year, is 50% of total in **A**, 60% of total in **B** and 50% of total in **C**. If the annual fee is Rupees 5 lakh per year in each institution, the total fee (in Crore Rupees) collected from **B. Tech. students in each institute** in the year 2021 was

Options :

1. ✘ Institute A: 115; Institute B: 156; Institute C: 725.0
2. ✘ Institute A: 575; Institute B: 650; Institute C: 362.5
3. ✘ Institute A: 850.0; Institute B: 1140.0; Institute C: 537.5
4. ✔ Institute A: 575; Institute B: 780; Institute C: 375

Question Id : 1064263265 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (70 to 73)

Question Label : Comprehension

Carefully read the following paragraph and answer the given questions.

IIT Bombay and Tohoku University, Japan, have signed a Memorandum of Understanding (MoU) to establish the IIT Bombay-Tohoku University Joint Academic & Research program, marking a significant step on advancing global academic collaboration. This initiative will offer collaborative Master's and PhD programs, providing students with unique opportunities for dual mentorship, access to world-class resources, and immersion in the academic ecosystems of two prestigious institutions. While the collaboration will begin with a dual degree initiative focused in research, both institutes are open to the possibility of evolving into a Joint Institute over time, contingent upon approval from the senate and government. This collaboration between IIT Bombay and Tohoku University represent a major milestone in fostering international academic partnerships. By combining the strengths of two world-renowned institutions, the program offers students a unique platform to engage in cutting-edge research and benefit from a truly global educational experience. It highlights IIT Bombay's commitment to shaping the next generation of leaders and researchers, empowering them with the knowledge and skills needed to thrive in an interconnected world.

Sub questions

Question Number : 70 Question Id : 1064263266 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

The MoU was signed by

Options :

1. ✓ Prof. Shireesh B. Kedare and Prof. Teiji Tominaga
2. ✗ Dr. Sharad Kumar Saraf and Prof. Gakuji Ito
3. ✗ Prof. Shireesh B. Kedare and Prof. Prof. T. Tominaga
4. ✗ Dr. Sharad Kumar Saraf and Prof. Mr. Kanji Fujiki

Question Number : 71 Question Id : 1064263267 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

This joint venture of IIT Bombay and Tohoku University will involve (choose the best option)

[A] Teaching; [B] Research; [C] Faculty exchange; [D] B. Tech. degree program

Options :

1. ✗ [A] and [B]
2. ✓ [A], [B], and [C]
3. ✗ [A], [B], [C] and [D]

4. ✘ [A], [B], and [D]

Question Number : 72 Question Id : 1064263268 Question Type : MCQ Option Shuffling : Yes Correct Marks : 1 Wrong Marks : 0

The best meaning of cutting-edge research in this paragraph is

Options :

1. ✘ Research that involves removal of edges
2. ✔ Breakthrough research
3. ✘ Research that suits faculty of both the institutions
4. ✘ Research prioritized by Indian and Japanese Governments

Question Number : 73 Question Id : 1064263269 Question Type : MCQ Option Shuffling : Yes Correct Marks : 1 Wrong Marks : 0

All grammatically incorrect sentences are marked in

Options :

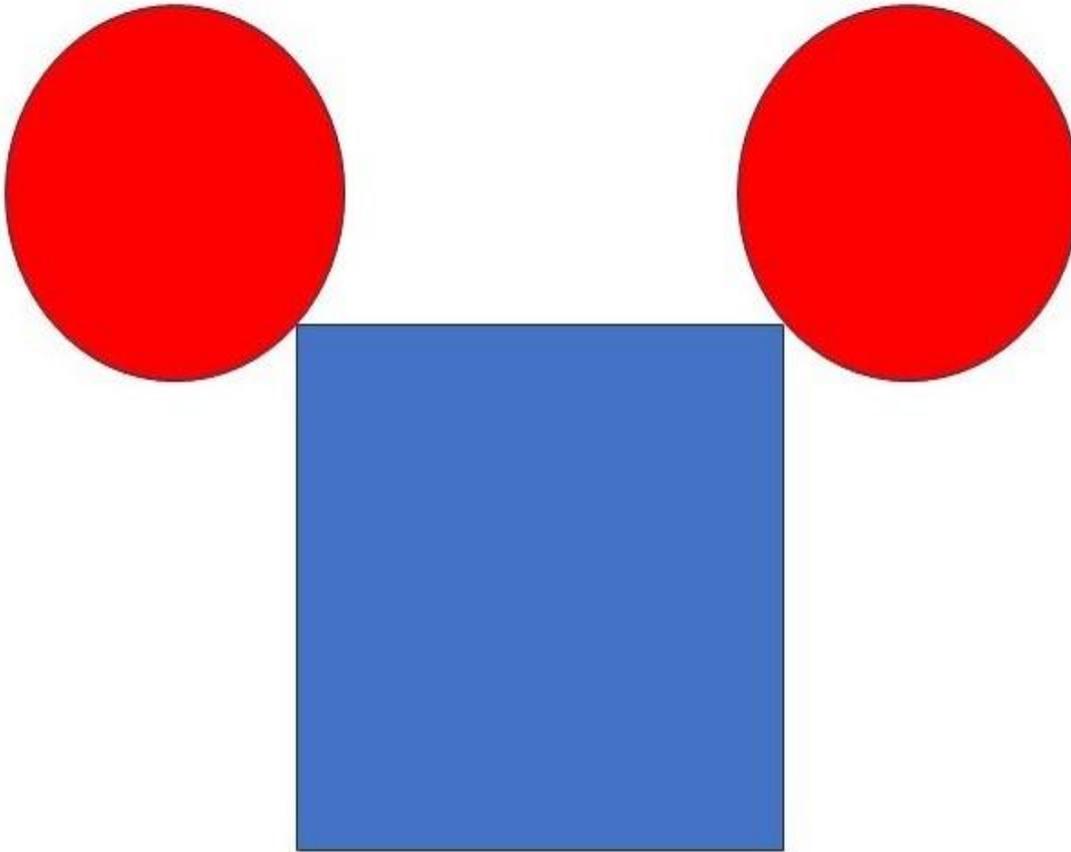
1. ✘ Red and Green
2. ✔ Red, Green and Blue
3. ✘ Red, underlined black, Green and Blue
4. ✘ Red and Blue

Question Id : 1064263270 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (74 to 75)

Question Label : Comprehension

Carefully examine the given figure and information.
The area of each red circle is 64π square meters.



Sub questions

Question Number : 74 Question Id : 1064263271 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 1 Wrong Marks : 0

By resizing, if one side of the blue square is made equal to radius of the red circle, then the length of the diagonal of the newly formed **square (A)** in meters will be

Options :

1. ✘ $\sqrt{2} \times 128$

2. ✔ $\sqrt{2} \times 8$

3. ✘ $\sqrt{3} \times 7$

4. ✘ $\sqrt{2} \times 16$

Question Number : 75 Question Id : 1064263272 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Now, if each of the red circles moves to touch middle of the opposite sides of the newly formed **square (A)**, then the distance between the centres of the circles in meters will be

Options :

1. ✓ 24

2. ✗ 32

3. ✗ 40

4. ✗ 48