

IIMBx Digital Learning Foundation

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 :	DBE Entrance Test 2024 10th Aug
Subject Name :	DBE Entrance Test 2024
Creation Date :	2024-08-10 13:46:16
Duration :	90
Total Marks :	60
Display Marks:	Yes
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No

DBE Entrance Test 2024

Group Number :	1
Group Id :	7183983
Group Maximum Duration :	0
Group Minimum Duration :	90
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	60

Verbal Ability Reading Comprehension

Section Id :	7183989
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	17
Number of Questions to be attempted :	17
Section Marks :	20
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	71839813
Question Shuffling Allowed :	Yes

Question Id : 718398389 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (1 to 4)

Question Key Details :

Key	Value
Topic	Reading Comprehension
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 5
Creator SME	SET 5
IIMB Difficulty	Medium

Read the comprehension and answer the questions.

Man has always been curious to know about the origin of life. Some have suggested that the life could have been brought to Earth by extra-terrestrials! For example, Eric von Daniken suggested this in Chariots of the Gods, which he wrote around 40 years ago. Similar suggestion was made by Sir Fred Hoyle and Professor N. Chandra Wickremasinghe, scientists with impeccable credentials, in 1970s. They propounded the Panspermia (meaning “seeds everywhere”) theory which maintains that life evolved out of a primordial soup, which got dispersed into cosmos through comets and meteorites. Life began on Earth, when some of this landed on it. However, many mainstream scientists just laugh it out. An

obvious reason for this is that the conditions conducive to existence of life and its propagation as available on Earth are not there elsewhere; one of these being the temperature factor.

Titan, though quite different from our mother planet, Earth, has many special features, which the scientists believe could help in revealing the origin of life. It is the only moon in our solar system with an atmosphere. And this could be similar to that of Earth when life began here. Thanks to Voyager I, we already know that the Titan's atmosphere predominantly contains nitrogen with small percentage of methane. But Titan is surrounded by a thick orange haze which obstructs the view below the dense clouds and therefore no one has been able to know about the surface features. However, being 1200 million kilometres away from the sun, Titan has a very low surface temperature, -180°C , which makes the chances of life on it very slim.

Sub questions

Question Number : 1 Question Id : 718398390 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Reading Comprehension
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 5
Creator SME	SET 5
IIMB Difficulty	Medium

Select the most appropriate title of the passage

Options :

1. ✘ Effect of Panspermia
2. ✘ Earth's Protective Blanket
3. ✘ Voyager and Interstellar Space
4. ✔ Titan and the Origin of Life

Hints :

Comprehensive English Communicative Test Papers
R.K.Gupta, Laxmi Publications P. AL.3

The title "Titan and the Origin of Life" is the most appropriate because the passage primarily discusses Titan, its unique characteristics, and its potential to reveal information about the origin of life. The passage mentions the Panspermia theory and the curiosity about the origin of life, but

it focuses on how Titan, with its special features like its atmosphere and surface conditions, might help scientists understand how life began. The other titles either do not capture the main focus of the passage or address only a small part of it.

Question Number : 2 Question Id : 718398391 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Reading Comprehension
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 5
Creator SME	SET 5
IIMB Difficulty	Medium

According to the passage it is not possible to know about Titan's surface features because

Options :

1. ✘ of its locations
2. ✔ of the presence of thick orange haze
3. ✘ of excessive solar radiation
4. ✘ of cover of methane and ethane gases

Hints :

Comprehensive English Communicative Test Papers
R.K.Gupta, Laxmi Publications P. AL.3

The passage states that Titan is surrounded by a thick orange haze that obstructs the view below the dense clouds, making it impossible to know about its surface features.

Question Number : 3 Question Id : 718398393 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Reading Comprehension
SME Difficulty Level	Medium

Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 5
Creator SME	SET 5
IIMB Difficulty	Medium

The word 'conductive' in the paragraph 1 means:

Options :

1. ✘ bountiful
2. ✘ remorseful
3. ✔ helpful
4. ✘ purposeful

Hints :

Comprehensive English Communicative Test Papers
R.K.Gupta, Laxmi Publications P. AL.3

Question Number : 4 Question Id : 718398394 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Reading Comprehension
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 5
Creator SME	SET 5
IIMB Difficulty	Medium

Select the appropriate option which is **NOT** true according to the passage.

Options :

1. ✔ Mainstream scientists agree with Panspermia theory
2. ✘ Titan is different from Earth.

3. ✘ Chariots of God was Written by Eric von Daniken
4. ✘ Voyager I has given many significant information related to Titan

Hints :

Comprehensive English Communicative Test Papers
R.K.Gupta, Laxmi Publications P. AL.3

According to the passage, many mainstream scientists laugh off the Panspermia theory, indicating they do not agree with it.

Sub-Section Number : 2
Sub-Section Id : 71839814
Question Shuffling Allowed : Yes

Question Number : 5 Question Id : 71839874 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Vocabulary
SubTopic	Idioms and phrases
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Difficult

Choose the **CORRECT** idiom that fits in the blank.

"As the summit on global trade policy unfolded, the delegations from developing nations and industrialized countries found themselves _____, grappling with entrenched positions on tariffs, subsidies, and market access, each side fiercely defending their economic interests and ideological principles amidst mounting diplomatic tension."

Options :

1. ✘ jump on the bandwagon
2. ✘ take a shine to someone
3. ✔ at loggerheads

4. ✖ to throw caution to the wind

Hints :

Difficult relationships		
idiom	meaning	example
be at loggerheads (of two people or groups)	disagree strongly with each other	The council and local residents are at loggerheads over the plans for a new car park.

<https://archive.org/details/english-idioms-in-use-intermediate-book-with-answers-2017/page/47/mode/2up>

Question Number : 6 Question Id : 71839878 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Vocabulary
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

Select the **CORRECT** phrase to complete the sentence:

Despite the challenges, she approached each problem with _____, carefully weighing all possible solutions before making decisions.

Options :

1. ✓ meticulousness
2. ✖ meticulous
3. ✖ meticulousity
4. ✖ meticulousity

Hints :

<https://www.vocabulary.com/dictionary/meticulousness#:~:text=Meticulousness%20is%20a%20quality%20of,quality%20can%20be%20extremely%20useful.>

"Meticulousness" refers to the quality of being very careful and precise, paying attention to every detail. It describes how she handled problems

by carefully considering all options before taking action.

Question Number : 7 Question Id : 71839887 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Vocabulary
SubTopic	Synonyms
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

Replace the bold words in the sentence below with the **CORRECT** synonym.

"The Professor's erudite lectures on astrophysics **aroused curiosity in** the minds of his students, inspiring them to delve deeper into the mysteries of the cosmos."

Options :

1. ✘ perplexed
2. ✔ intrigued
3. ✘ confounded
4. ✘ bewildered

Hints :

<https://dictionary.cambridge.org/dictionary/english/intrigue>

"Intrigued" means to arouse curiosity or interest, which fits the context of his erudite lectures on astrophysics capturing the minds of his students and motivating them to explore further into the mysteries of the cosmos.

Question Number : 8 Question Id : 71839891 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Indirect Writing
SubTopic	Word Usage and Understanding
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

Complete the sentence by choosing the word that best fits the context:

Despite the initial setbacks, the team remained _____ and determined to achieve their goals.

Options :

1. ✘ perseverance
2. ✔ Resilient
3. ✘ Discouraged
4. ✘ Persistence

Hints :

"resilient" fits the first blank as it describes the team's ability to bounce back from setbacks.

<https://dictionary.cambridge.org/dictionary/english/resilient>

Question Number : 9 Question Id : 71839892 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Prose
SubTopic	Para Jumbles
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1

Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Difficult

Arrange the following sentences in the **CORRECT** sequence to form a coherent paragraph:

- 1) Either glory means to me fame, or it means luminosity.
- 2) As for the second, who wishes to become a kind of living electric light bulb?
- 3) Glory suggests two ideas to me, of which one seems wicked and the other ridiculous.
- 4) As for the first, since to be famous means to be better known than other people, the desire for fame appears to me as a competitive passion and therefore of hell rather than heaven.

Options :

1. ✘ 3 - 1 - 4 - 2
2. ✔ 3 - 4 - 1 - 2
3. ✘ 1 - 3 - 4 - 2
4. ✘ 2 - 3 - 1 - 4

Hints :

<https://archive.org/details/in.ernet.dli.2015.157427/page/n19/mode/2up>

Question Number : 10 Question Id : 71839895 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Vocabulary
SubTopic	Idioms and phrases
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

Identify the phrasal verb in the following complex sentence:

"Although encountering numerous setbacks, they eventually broke through the barriers and achieved unprecedented success in their field."

Options :

1. ✘ numerous setbacks
2. ✔ broke through
3. ✘ barriers and achieved
4. ✘ unprecedented

Hints :

<https://www.collinsdictionary.com/dictionary/english/break-through#:~:text=2.-,phrasal%20verb,there%20are%20difficulties%20and%20obstacles.>

Question Number : 11 Question Id : 71839897 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Grammar
SubTopic	Tenses and Aspects
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Easy

Identify the sentence that contains a future tense verb:

Options :

1. ✘ He has been studying for his exam.
2. ✘ They are cooking dinner right now.
3. ✔ By this time next week, we will have completed the project.
4. ✘ She is reading a book in the garden.

Hints :

<https://dictionary.cambridge.org/grammar/british-grammar/future>

Question Number : 12 Question Id : 71839898 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Grammar
SubTopic	Tenses and Aspects
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

Select the **CORRECT** sentence that uses a conjunction to connect two clauses with different tenses, maintaining coherence and clarity:

Options :

1. ✓ He has finished his studies but is planning to travel next month.
2. ✗ Despite finishing her work early, she goes home immediately.
3. ✗ By the time we arrived, they had already left the party.
4. ✗ While she cooks dinner, he will be finishing his work in the office

Hints :

conjunction "but" to connect two clauses with different tenses

"He has finished his studies" (present perfect tense) and "is planning to travel next month" (future tense)

<https://dictionary.cambridge.org/grammar/british-grammar/conjunctions?q=Conjunctions>

Question Number : 13 Question Id : 718398113 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Vocabulary
SubTopic	Odd one out
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024

Shift	Shift 1
Reviewer SME	SET 6
Creator SME	SET 6
IIMB Difficulty	Medium

Select the option that is odd one out based on the meaning of the word given below.

Benevolent

Options :

1. ✓ Extrovert
2. ✗ Altruistic
3. ✗ Generous
4. ✗ Compassionate

Hints :

<https://www.merriam-webster.com/dictionary/extrovert>

Question Number : 14 Question Id : 718398122 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Vocabulary
SubTopic	Analogies
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 3
Creator SME	SET 3
IIMB Difficulty	Easy

Choose the answer that best completes the analogy based on the semantic relationship between the first two words.

Learned : Scholarly :: Superficial : ?

Options :

1. ✖ Deep
2. ✖ Inquisitive
3. ✔ Shallow
4. ✖ Mundane

Hints :

Learned and scholarly are synonyms. Learned describes someone with extensive knowledge, while scholarly emphasizes the pursuit of knowledge through academic study. Similarly, Shallow is the most analogous choice for superficial. It describes something lacking depth or seriousness, just as superficial refers to something concerned only with the surface level.

Question Number : 15 Question Id : 718398129 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Prose
SubTopic	Missing sentence
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 3
Creator SME	SET 3
IIMB Difficulty	Difficult

A sentence has been removed from the end of the following passage. Please choose the **CORRECT** option that completes the passage in the most appropriate manner:

Audience segmentation used to be a blunt process—grouping people based on demographic information such as their age, gender, location, educational level, income, and so on. AI technologies can drill down into audience behaviors and help teams develop a sophisticated understanding of niche communities based on their shared values, behaviors, influences, brand affinities, and more. This provides a much more nuanced understanding of what really makes an audience tick, making it easier to create campaigns that resonate.

Options :

1. ✖ None the less, implementing AI requires significant investment
2. ✔ Unlike conventional market research tactics, it's based on real-time data, which means the intelligence it gives you is never out of date.
3. ✖ This newfound understanding allows for marketing based on blanket information.

4. ✘ With AI, marketers can now target specific demographics.

Hints :

<https://www.forbes.com/sites/meltwater/2024/06/18/unlocking-the-ai-advantage-to-transform-pr/>

Explanation: While the other sentences introduce new concerns, do not directly connect to the concluding sentence structure, and/or disrupt the flow of the passage, option 2 maintains the flow of the passage. It uses a contrasting phrase ("Unlike conventional...") and highlights a specific advantage of AI (real-time data) that connects to the previous sentence about its effectiveness.

Question Number : 16 Question Id : 718398132 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Grammar
SubTopic	Parts of speech
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 3
Creator SME	SET 3
IIMB Difficulty	Difficult

Complete the following statement using the most appropriate and grammatically **CORRECT** prepositions from the given choices.

The discovery of a hidden chamber _____ the ancient temple sent archaeologists into a frenzy _____ excitement.

Options :

1. ✘ beneath / on
2. ✔ within / of
3. ✘ regarding / with
4. ✘ due to / for

Question Number : 17 Question Id : 718398165 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Vocabulary
SubTopic	Words and Phrases often confused
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 2
Creator SME	SET 2
IIMB Difficulty	Easy

Choose the word to replace the word “effects” in the below sentence

Dumping medical waste into the atmosphere effects the environment, badly.

Options :

1. ✘ upshots
2. ✔ affects
3. ✘ reverberates
4. ✘ effect

Hints :

Effects and Affects are often confused Phrases.

Question Number : 18 Question Id : 718398174 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Indirect Writing
SubTopic	Sentence completion
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 2

Creator SME	SET 2
IIMB Difficulty	Easy

Select the **CORRECT** option to fill in the blank.

The selectors were criticized for choosing a weak team for the World Cup. The team faced defeats in the initial stages and performed well later. Contrary to general belief the _____.

Options :

1. ✘ team lost the final match
2. ✘ team lost the trophy.
3. ✔ team won the trophy.
4. ✘ team returned empty handed

Hints :

It really happened . option 3. The general belief is that a weak team would lose the match. Contrary is winning.

Question Number : 19 Question Id : 718398398 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Vocabulary
SubTopic	Antonyms
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 5
Creator SME	SET 5
IIMB Difficulty	Easy

Match the words below with its **CORRECT** antonyms.

Words	Antonym
A. Savory	1. Healthy

B. Split	2. Sweet
C. Rigid	3. Flexible
D. Toxic	4. Join

Options :

1. ✘ A-3, B-4, C-1, D-2
2. ✔ A-2, B-4, C-3, D-1
3. ✘ A-4, B-1, C-2, D-3
4. ✘ A-4, B-3, C-2, D-1

Hints :

A Blackbook of English Grammar Vocabulary
Nikhil Gupta, Gupta Edutech, 2023
p.228

<https://www.merriam-webster.com/thesaurus/rigid>

Question Number : 20 Question Id : 718398404 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Indirect Writing
SubTopic	Prose
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 5
Creator SME	SET 5
IIMB Difficulty	Easy

Select the **CORRECT** option to fill in the blank.

I drove out early one morning to Hemis to witness one of the greatest events of the Ladakhi calendar, the Tse-Chu festival. _____. I concluded that this is how the traditional culture flourished, until a Ladakhi pointed out that such goods could be aimed only at the tourist market. The few Ladakhis in evidence were clustered around the homemade roulette wheels set among the trees.

Options :

1. ✖ I knew before I came to Ladakh- the high dry region in northern India that borders Tibet.
2. ✖ We began to edge down along a single lane road towards Nubra valley.
3. ✖ Indeed many of Ladakh's festivals, traditionally held in winter when Ladakhi's don't have to work on fields, have now been moved to the summer so they can grab a foreign audience.
4. ✔ When I arrived, I found a whole settlement set up around the temple, with sharp cheeked men and girls selling necklaces and statues of the Buddha, mystic scrolls and even CD's.

Hints :

Enjoying Everyday English
Ramakrishna Rao Sangam Books,2010,p.3

<https://www.merriam-webster.com/dictionary/when>

Quantitative Ability and Data Interpretation

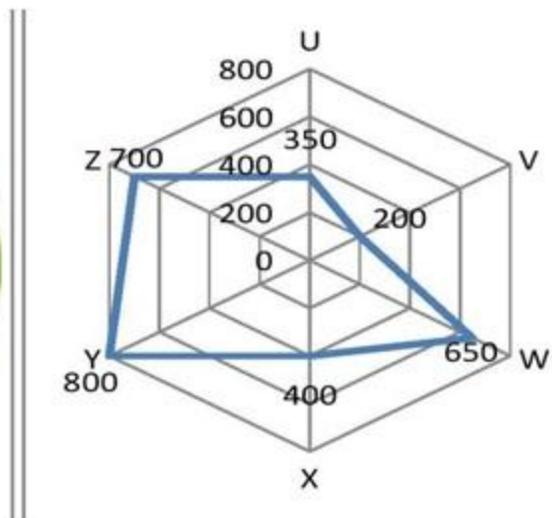
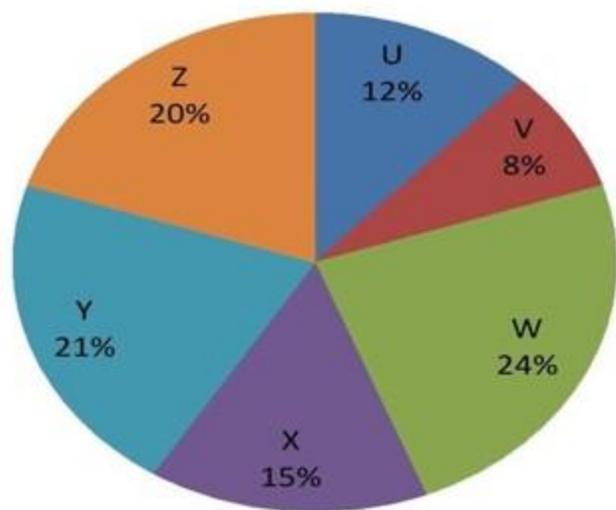
Section Id :	71839810
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	17
Number of Questions to be attempted :	17
Section Marks :	20
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	71839815
Question Shuffling Allowed :	Yes

**Question Id : 718398296 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions :
No Question Pattern Type : NonMatrix
Question Numbers : (21 to 24)
Question Key Details :**

Key	Value
Topic	Data Interpretation
SubTopic	Chart/Graph/Table
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 4
Creator SME	SET 4
IIMB Difficulty	Easy

Read the data below and answer the questions that follow.

The pie chart shows the percentage of total number of students (male and female) in different institutes affiliated with an educational council, whereas the radar graph shows the number of male students in the institutes. Let the total number of students in all the institutes taken together be 5500.



Sub questions

Question Number : 21 Question Id : 718398297 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Data Interpretation
SubTopic	Chart/Graph/Table
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 4
Creator SME	SET 4
IIMB Difficulty	Easy

The number of female candidates in institution Y is:

Options :

1. ✘ 425
2. ✔ 355
3. ✘ 400
4. ✘ 310

Hints :

①

$$5500 \times \frac{21}{100} = 1155$$

$$\text{Female} = 1155 - 800 = \boxed{355}$$

Question Number : 22 Question Id : 718398298 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Data Interpretation
SubTopic	Chart/Graph/Table
SME Difficulty Level	Easy

Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 4
Creator SME	SET 4
IIMB Difficulty	Easy

The degree representation of the total number of students in institutes X and Y, taken together, as a share of the overall number of students in all the institutes, taken together, is:

Options :

1. ✘ 36°
2. ✘ 79.5°
3. ✔ 129.6°
4. ✘ 106°

Hints :

②

$$\text{Student X} = 5500 \times \frac{15}{100} = 825$$

$$Y = 5500 \times \frac{21}{100} = 1155$$

$$\text{Combined } X + Y = 1980$$

$$\text{Angle} = \frac{1980}{5500} \times 360$$

$$= \boxed{129.6^\circ}$$

Question Number : 23 Question Id : 718398299 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Data Interpretation
SubTopic	Chart/Graph/Table
SME Difficulty Level	Easy

Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 4
Creator SME	SET 4
IIMB Difficulty	Easy

The ratio of the number of female students in institute Z to the number of female students in institute V is:

Options :

1. ✖ 2 : 3
2. ✖ 3 : 7
3. ✖ 7 : 5
4. ✔ 5 : 3

Hints :

③
 female in Z = 400
 female in V = 240
 Ratio of Z:V = $\frac{400}{240} = \frac{5}{3}$

Question Number : 24 Question Id : 718398300 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Data Interpretation
SubTopic	Chart/Graph/Table
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 4
Creator SME	SET 4

IIMB Difficulty

Easy

If 25% of the female students from institute V are transferred to institute Z and 20% of the male students from institute Z are transferred to institute W, then after the transfer, the percentage (up to two decimal places) by which the number of students in institute Z are more than that of the students in institute U is _____.

Options :

1. ✓ 54.55%
2. ✗ 60.45%
3. ✗ 50.63%
4. ✗ 49.09%

Hints :

④ Student V = 440, Female V = 240
 Female Z = 400, total Z = 1100

25% of female of V = 60
 Now Female in Z = 60 + 400 = 460

20% Male of Z = 700 × 20% = 140
 Now Male in W = 650 + 140 = 790

After Transfer
 Total student in Z = 560 + 460
 = 1020

Difference of Z and U = 360
 $\% = \frac{360}{660} \times 100 = \boxed{54.55\%}$

Sub-Section Number :

2

Sub-Section Id :

71839816

Question Shuffling Allowed :

Yes

Question Number : 25 Question Id : 7183981 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0**Question Key Details :**

Key	Value
Topic	Arithmetic
SubTopic	Ratio proportion
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Item Reference	BRAINS
Shift	Shift 1
IIMB Difficulty	Easy

A sum of Rs. 7,740 is divided between X, Y and Z such that the ratio of the share of X to the combined share of Y and Z is 4 : 11 and the ratio of the share of Z to the combined share of X and Y is 1 : 3. What is the share (in Rs.) of Y?

Options :

1. ✘ 1,840
2. ✘ 2,064
3. ✘ 3,520
4. ✔ 3,741

Hints :

Topic _____ Date _____

9

$$\frac{X}{4} : \frac{Y+Z}{11} = \frac{X+Y+Z}{15} = \frac{7740}{15} = 516$$

$$\Rightarrow X = 4 \times 516 = 2064 \checkmark$$

$$\frac{Z}{1} : \frac{Y+X}{3} = \frac{7740}{4} = 1935$$

$$Y = 7740 - (2064 + 1935) = 7740 - 3999 = \boxed{3741}$$

Ans(4)

Question Number : 26 Question Id : 7183983 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Geometry
SubTopic	Mensuration
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Item Reference	BRAINS
Shift	Shift 1
IIMB Difficulty	Medium

A cylindrical vessel of base radius 42 cm contains water to a certain level. A solid cylinder of height 18 cm is dropped into it and is completely submerged in water. If the level of the water in the vessel rises by 8 cm, what is the total surface area (in cm^2) of the solid cylinder? (Use $\pi = \frac{22}{7}$) (Assuming no overflow.)

Options :

1. ✘ 6570

2. ✘ 7040
3. ✘ 7568
4. ✔ 8096

Hints :

$$\pi \times 42 \times 42 \times 8 = \pi R^2 \times 18$$

$$R^2 = \frac{42 \times 42 \times 8}{18} = 784 \Rightarrow R = 28 \quad \boxed{\text{Ans (4)}}$$

$$\text{TSA} = 2\pi r(r+h)$$

$$= 2\pi \times 28 \times (28+18)$$

$$= 2\pi \times 28 \times 46 = 2 \times \frac{22}{7} \times 28 \times 46 = 8096$$

Question Number : 27 Question Id : 71839821 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Arithmetic
SubTopic	Average
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Easy

A bank offers 5% compound interest per annum, calculated on half-yearly basis. A customer deposits Rs. 3200 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is:

Options :

1. ✘ Rs. 240
2. ✔ Rs. 242
3. ✘ Rs. 340
4. ✘ Rs. 342

Hints :

$$\text{Amount} = P(1+r/100)^{\text{time}}$$

$$\text{CI} = 6642 - 6400 = 242$$

Question Number : 28 Question Id : 71839827 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Arithmetic
SubTopic	Number system
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

The digit in the units' place of $13^{2003} - 7^{291}$ is _____.

Options :

1. ✘ 7
2. ✔ 4
3. ✘ 3
4. ✘ 9

Hints :

$$13^1 = \text{--}3$$

$$13^2 = \text{---}9$$

$$13^3 = \text{---}7$$

$$13^4 = \text{---}1$$

$$13^5 = \text{---}3$$

$$13^6 = \text{---}9$$

$$13^7 = \text{---}7$$

$$13^8 = \text{---}1$$

$$13^9 = \text{---}3$$

$$13^{10} = \text{---}9$$

Notice that when the exponent is a MULTIPLE of 4 (4, 8, 12, 16, ...), the units digit will be **1**

Since 2000 is a MULTIPLE of 4, we know that the units digit of 13^{2000} will be **1**

Continuing with the pattern:

$$13^{2001} = \text{---}3$$

$$13^{2002} = \text{---}9$$

$$\mathbf{13^{2003} = \text{---}7}$$

The Cyclic table for 7 is as follows:

Unit digit

The unit digit pattern is 7, 9, 3, 1, 7, 9, 3, 1.....

So, divide 291 by 4 we get the remainder is 3. Hence the digit in the unit place is 3.

Now, $7 - 3 = 4$

Question Number : 29 Question Id : 71839829 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Arithmetic
SubTopic	Profit and Loss
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

While selling 15 items, a shopkeeper earned a profit equal to the total cost price of 3 items. If each item is marked 25% above its actual cost and a discount of Rs 2 is given while selling it, then what is the difference between the total cost price of 20 items and the total selling price of 12 items?

Options :

1. ✓ Rs. 224
2. ✗ Rs. 220
3. ✗ Rs. 278
4. ✗ Rs. 254

Hints :

Profit earned while selling 15 items = cost price of 3 items

$$15(SP - CP) = 3CP$$

$$15SP = 18CP$$

Profit percentage = 20%

Let cost price of a product = x

Marked price = 125% of x

Selling price = 120% of x

Discount offered = Rs. 2

$$125\% \text{ of } x - 7.5x - 120\% \text{ of } x = 2$$

$$X = 40$$

CP of 20 item = 800

SP of 12 item = $48 * 12 = 576$

Difference = Rs. 224

Question Number : 30 Question Id : 71839833 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Arithmetic
SubTopic	Time and Work
SME Difficulty Level	Difficult

Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Difficult

Sahil can complete a job in 20 days when working alone. Manoj is twice as fast as Sahil and three times as fast as Ashish in the same job. The collaborative work arrangement involves Sahil and Manoj working on the first day, Sahil and Ashish on the second day, and Manoj and Ashish on the third day. This three-day cycle continues till the work is completed. What fraction of the total work will then be done by Ashish till the job is completed?

Options :

1. ✓ $\frac{7}{40}$
2. ✗ $\frac{6}{41}$
3. ✗ $\frac{7}{45}$
4. ✗ $\frac{6}{49}$

Hints :

S=20 days; M=10 days; and A=30 days

Total number of unit work = 20 + 10 + 30 = 60unit

One day work by S=60/20=3 unit

One day work by M=60/10=6 unit

One day work by A=60/30=2 unit

In three days=2*(3+6+2) =22 units of work done In 6 days= 44 units of work done. Remaining work on 7th day=60-44=16 unit out of which 9 unit is done by S and M. Remaining work on 8th day=60-53=7 unit out of which 5 unit is done by S and A. On 9th day, 2 units is completed by M and A. Out of which 3/2 units is completed by Manoj because Manoj is three times as fast as Ashish and 1/2 unit is done by Aashish. Total units done by Aashish= 8+2+1/2=21/2 units. Hence work done by

$$\text{Manoj} = (21/2) / 60 = 7/40$$

Question Number : 31 Question Id : 71839835 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Arithmetic
SubTopic	Time Speed and Distance
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

A train running between two towns arrives at its destination 10 minutes late when it goes at 60 km per hour and 16 minutes late when it goes at 40 km per hour. Determine the speed at which the train reaches on time.

Options :

1. ✓ 360 km/h
2. ✗ 100 km/h
3. ✗ 90 km/h
4. ✗ 240 km/h

Hints :

Let distance = x km

ATQ

$$x/60 = t + 10/60$$

$$x/40 = t + 16/60$$

$$\text{hence } t = 1/30$$

$$\text{and speed} = 360 \text{ km/h}$$

Question Number : 32 Question Id : 71839837 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Algebra
SubTopic	Linear Equation
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Easy

If $2^{x+y} = 4^{x-y} = \sqrt{32}$, then $xy = \underline{\hspace{2cm}}$.

Options :

1. ✘ $\frac{75}{32}$

2. ✔ $\frac{75}{64}$

3. ✘ $\frac{75}{16}$

4. ✘ $\frac{75}{128}$

Hints :

ATQ

$$x+y=5/2$$

$$2x-2y= 5/2$$

[hence

$$xy = -24]$$

How does one get the above result???!?

$$x + y = 5/2 \Rightarrow 2x + 2y = 5$$

Adding $2x - 2y = 5/2$, we get $4x = 15/2$, while subtracting we get $4y = 5/2$.

Multiplying we get $16xy = 75/4$, or $xy = 75/64$, which is the correct answer

Question Number : 33 Question Id : 71839839 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Algebra
SubTopic	Quadratic Equation
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Difficult

The roots of the equation $x^2 + 18x - 703 = 0$ are given as a and b, with $a > b$.

The roots of the equation $x^2 - 10x - 336 = 0$ are given as c and d, with $c > d$.

Which of the options below gives the correct relation between a, b, c and d?

Options :

1. ✘ $a > b > c > d$

2. ✔ $c > a > d > b$

3. ✘ $a > c > b > d$

4. ✘ $c > a > b > d$

Hints :

$$x^2 + 18x - 703 = 0$$

$$x^2 - 19x + 37x - 703 = 0$$

$$x(x - 19) + 37(x - 19) = 0$$

$$(x - 19)(x + 37) = 0$$

$$x = 19, -37$$

If $a > b$, then $a = 19$, $b = -37$

$$x^2 - 10x - 336 = 0$$

$$x^2 + 14x - 24x - 336 = 0$$

$$x(x + 14) - 24(x + 14) = 0$$

$$(x - 24)(x + 14) = 0$$

$$x = 24, -14$$

If $c > d$, then $c = 24$, $d = -14$

We know $24 > 19 > -14 > -37$

$$\Rightarrow c > a > d > b$$

Question Number : 34 Question Id : 71839841 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Algebra
SubTopic	Inequations
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

Find the sum of the smallest value and the greatest value of x that satisfy the inequality

$$|5x + 5| - 8 \leq 17.$$

Options :

1. ✘ 2

2. ✔ -2

3. ✘ 4

4. ✖ - 4

Hints :

We have $|5x + 5| - 8 \leq 17 \Rightarrow |5x + 5| \leq 25 \Rightarrow -25 < 5x + 5 \leq 25 \Rightarrow -30 < 5x \leq 20 \Rightarrow -6 \leq x \leq 4$

Hence smallest value of $x = -6$ and greatest value of $x = 4$

Hence sum = -2

Question Number : 35 Question Id : 71839845 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Algebra
SubTopic	Progression
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

The sum of the first 3 terms of an AP is 6 and that of the last 3 terms is 16. If the AP has 13 terms, what is the Arithmetic mean of the three terms that are exactly at the middle of the progression?

Options :

1. ✖ 11

2. ✔ $\frac{11}{3}$

3. ✖ 22

4. ✘ $\frac{22}{3}$

Hints :

The AP can be expressed as $a, (a + d), \dots, (a + 12d)$. The sum of the first 3 terms is $(3a + 3d) = 6$ and that of the last 3 is $(3a + 33d) = 16$. Solving these equations, we get $a = 5/3$ and $d = 1/3$. The sum of the middle 3 terms is $(3a + 18d) = 11$. Hence AM = $11/3$

Question Number : 36 Question Id : 718398277 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Algebra
SubTopic	Permutation Combination
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 4
Creator SME	SET 4
IIMB Difficulty	Medium

Two British and three Indian men and their wives are to be seated around a circular table. If the seating arrangements are defined only by the relative positions of the people, then the total number of ways in which each British man can be seated next to his wife and each Indian man can also be, simultaneously, seated next to his wife is:

Options :

1. ✘ 850
2. ✔ 768
3. ✘ 904
4. ✘ 790

Hints :

(25)

$$\begin{aligned} \text{No. of ways} &= (5-1)! \times 2 \times 2 \times 2 \times 2 \times 2 \\ &= 4! \cdot 2^5 \\ &= \underline{\underline{768}} \end{aligned}$$

Question Number : 37 Question Id : 718398281 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Geometry
SubTopic	Plane Geometry
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 4
Creator SME	SET 4
IIMB Difficulty	Medium

In $\triangle XYZ$, length of $\overline{XY} = 13$ cm. If the length of the median drawn from vertex Z to base \overline{XY} is 6.5 cm, then $\triangle XYZ$ is a/an:

Options :

1. ✘ equilateral triangle
2. ✔ right angled triangle
3. ✘ acute angled triangle
4. ✘ obtuse angled triangle

Hints :

(29) If the median is half of the base, then Δ is a right-angled triangle.

Question Number : 38 Question Id : 718398322 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Arithmetic
SubTopic	Profit and Loss
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 2
Creator SME	SET 2
IIMB Difficulty	Difficult

The sum of the cost prices of three items was Rs.24150. The person sold the first item at a profit of 72%, the second item at a profit of 40% and the third item at a profit of 126%. The total profit earned from the sale of these three items was Rs.19432. If the cost price of the second item was Rs.175 more than what it actually was, then the ratio of the cost prices of the second and the third items, respectively, would have been 4: 5. What was the difference (in Rs) between the profits earned from the sale of the first and the second items?

Options :

1. ✘ 6342
2. ✘ 6132
3. ✔ 6272
4. ✘ 6244

Hints :

Let the cost prices (in `) of Items 1, 2 and 3 respectively be p, q, and r.

Hence, we have $p + q + r = 24150$; $0.72p + 0.4q + 1.26r = 19432$; $5(q + 175) = 4r$

Solving the three linear equations above, we get $p = 11725$; $q = 5425$; $r = 7000$

Hence, required difference (in `) = $11725 \times 0.72 - 5425 \times 0.4 = 8442 - 2170 = 6272$

Question Number : 39 Question Id : 718398325 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Arithmetic
SubTopic	Time and Work
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 2
Creator SME	SET 2
IIMB Difficulty	Medium

81 equally efficient people could complete a piece of work in 15 days. Initially 45 such people started working together. But after they worked together for 6 days their employer wanted that the work should be completed in a total of 21 days. However any new worker was only 60% as efficient as any of the 45 people already working. How many new workers did the employer hire to work alongside the initial 45 people to meet the deadline?

Options :

1. ✖ 36

2. ✔ 30

3. ✖ 27

4. ✖ 18

Hints :

$$81 \times 15 \div 45 = 81 \div 3 = 27$$

Hence, 45 people having the initial level of efficiency would have needed 27 days to complete the work.

After 6 days work left for these 45 people was of another 21 days.

But they had only $(21 - 6) = 15$ more days.

$45 \times 21 \div 15 = 63 \Rightarrow (63 - 45) = 18$ more workers as efficient as those already deployed would have been needed.

However, the new recruits were only 60% as efficient.

$$18 \div 0.6 = 30$$

$\Rightarrow 30$ new workers would be needed.

Question Number : 40 Question Id : 718398334 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Algebra
SubTopic	Function and Graph
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 2
Creator SME	SET 2
IIMB Difficulty	Difficult

If $f(x) = x - 1$, and $g(f(x)) = 3 + 2x - x^2 + x^3$, which of the options below give a correct expression for $g(x)$?

Options :

1. ✘ $x^3 + 2x^2 + 3x + 3$

2. ✘ $x^3 - 2x^2 + 3x - 5$

3. ✘ $x^3 - 4x^2 + 7x - 4$

4. ✔ $x^3 + 2x^2 + 3x + 5$

Hints :

$$\begin{aligned}
 g(f(x)) &= g(x-1) = 3 + 2x - x^2 + x^3 = 3 + 2 \times (x-1+1) - (x-1+1)^2 + (x-1+1)^3 \\
 &= 3 + 2 \times (x-1) + 2 - \{(x-1)^2 + 2 \times (x-1) \times 1 + 1^2\} + \{(x-1)^3 + 3 \times \{(x-1)^2 \\
 &\times 1 + 3 \times (x-1) \times 1^2 + 1^3\} = 5 + 2 \times (x-1) - (x-1)^2 - 2 \times (x-1) - 1 + (x-1)^3 \\
 &+ 3 \times (x-1)^2 + 3 \times (x-1) + 1 = 5 + (x-1)^3 + 2 \times (x-1)^2 + 3 \times (x-1) \equiv (x-1)^3 \\
 &+ 2 \times (x-1)^2 + 3 \times (x-1) + 5 \Rightarrow g(x-1) = (x-1)^3 + 2 \times (x-1)^2 + 3 \times (x-1) + \\
 &5 \Rightarrow g(x) = x^3 + 2x^2 + 3x + 5
 \end{aligned}$$

Logical Analytical Reasoning

Section Id :	71839811
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	10
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	71839817
Question Shuffling Allowed :	Yes

Question Number : 41 Question Id : 71839810 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Verbal Reasoning - Critical
SubTopic	Conclusion
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024

Item Reference	VILOKA
Shift	Shift 1
IIMB Difficulty	Medium

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All mangoes are oranges.
No banana is orange.

Conclusions:

I. No mango is a banana.
II. At least some oranges are mangoes.

Options :

1. ✘ Only I follows
2. ✘ Only II follows
3. ✔ Both I and II follow
4. ✘ Neither I nor II follows

Question Number : 42 Question Id : 718398137 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Verbal Reasoning - Analytical
SubTopic	Seating arrangement
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

M, N, O, P, Q and R are sitting around a circular table facing the centre. M sits second to the left of R. Only one person sits between R and Q. O is

not the immediate neighbour of M. N sits third to the right of Q. How many people sit between Q and R, when counted from the right of R?

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Hints :

Clockwise
ORNMPQ

Question Number : 43 Question Id : 718398142 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Verbal Reasoning - Analytical
SubTopic	Order Detection
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Easy

Rahul ranked 16th from the top and 27th from the bottom in his class. How many students are there in the class?

Options :

1. ✗ 40
2. ✗ 41
3. ✓ 42
4. ✗ 43

Hints :

$16+27-1=32$

Question Number : 44 Question Id : 718398143 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Verbal Reasoning - Analytical
SubTopic	Equality-inequality
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Easy

A, B, C, D and E have different ages. Only one person is elder than E. B is younger than C but elder than D. A is elder than C. How many people are elder than C?

Options :

1. ✘ 4
2. ✘ 3
3. ✔ 2
4. ✘ 1

Hints :

A>E>C>B>D

Question Number : 45 Question Id : 718398145 Question Type : MCQ Option Shuffling : Yes

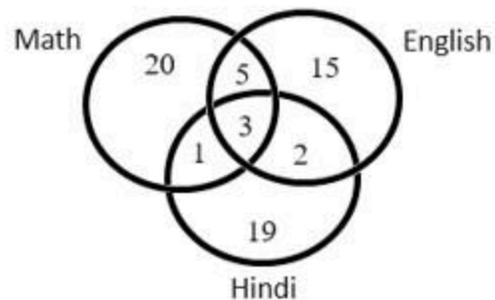
Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Numerical Reasoning
SubTopic	Basic numerical operations
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024

Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

Study the given diagram carefully and answer the questions. The numbers in different sections indicate the number of students studying the subject. (NOTE: You have to take the given data to be true even if they seem to be at variance from commonly known facts).



How many students are studying Math as well as English but not Hindi?

Options :

1. ✘ 8
2. ✘ 10
3. ✘ 11
4. ✔ 5

Hints :

Only 5 students study both math and english

Question Number : 46 Question Id : 718398146 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Verbal Reasoning - Analytical
SubTopic	Series completion
SME Difficulty Level	Medium

Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

Complete the series.

ZA144, YB121, XC100, WD81, ?

Options :

1. ✘ UF 64
2. ✘ VF 64
3. ✘ VE 65
4. ✔ VE 64

Hints :

-1

Squares of 12,11,10,9,8

Question Number : 47 Question Id : 718398150 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Verbal Reasoning - Analytical
SubTopic	Blood Relations
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

Meena is the wife of Nandu. Nandu is the father of Ovi. Ovi is the sister of Prakash. Prakash is the father of Sunita. Sunita is the wife of Rohan. How is Rohan related to Meena?

Options :

1. ✘ Wife's mother
2. ✔ Wife's father's mother
3. ✘ Mother
4. ✘ Wife's sister

Hints :

Wife's father's mother

Question Number : 48 Question Id : 718398153 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Verbal Reasoning - Analytical
SubTopic	Direction Sense
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Easy

Raj starts from point A and walks 7kms towards West direction. He then takes a left turn and walks 11kms, turns left and walks 11kms, turns left and walks 7kms. He then takes the final left turn, walks 4kms and stops at point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

Options :

1. ✔ 4kms towards North
2. ✘ 4kms towards South
3. ✘ 3kms towards North
4. ✘ 3kms towards South

Hints :

11-7=4

Question Number : 49 Question Id : 718398154 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Verbal Reasoning - Analytical
SubTopic	Verbal Analogy
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Difficult

KL 15 is related to NO 21 in a certain way. In the same way, XY 28 is related to AB 34.

Which of the following is related to GH 41 by using the same logic?

Options :

1. ✘ HJ 46
2. ✘ HJ 47
3. ✘ JK 46
4. ✔ JK 47

Hints :

The difference between the alphabets in the clusters:+3

Number:+6

Question Number : 50 Question Id : 718398202 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Verbal Reasoning - Analytical
SubTopic	Clocks and Calenders
SME Difficulty Level	Difficult
Review Status	IIM Approved

Item Year	2024
Shift	Shift 1
Reviewer SME	SET 3
Creator SME	SET 3
IIMB Difficulty	Difficult

If 1st January 2020 is a Wednesday, then what will be the day of the week on 15th September 2020?

Options :

1. ✘ Monday
2. ✔ Tuesday
3. ✘ Friday
4. ✘ Saturday

Hints :

15th September 2020 is on Tuesday

General Awareness

Section Id :	71839812
Section Number :	4
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	10
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	71839818
Question Shuffling Allowed :	Yes

Question Number : 51 Question Id : 71839819 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
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Topic	Current Affairs
SubTopic	International Current Affairs
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 3
Creator SME	SET 3
IIMB Difficulty	Medium

Which country hosted the G7 Summit in June 2024?

Options :

1. ✘ Canada
2. ✔ Italy
3. ✘ France
4. ✘ Germany

Hints :

<https://indianexpress.com/article/india/g7-summit-live-updates-pm-narendra-modi-italy-9391861/>

Question Number : 52 Question Id : 71839822 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	Current Affairs
SubTopic	National Current Affairs
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 3
Creator SME	SET 3
IIMB Difficulty	Difficult

Which Indian has won the World Junior Chess Championship (U-20 Girls) in June 2024, held at Gandhinagar, Gujarat?

Options :

1. ✘ Koneru Humpy
2. ✘ Soumya Swaminathan
3. ✔ Divya Deshmukh
4. ✘ Harika Dronavalli

Hints :

<https://timesofindia.indiatimes.com/sports/chess/nagpurs-queen-indias-pride-divya-deshmukh-is-world-junior-chess-champion/articleshow/110978256.cms>

Question Number : 53 Question Id : 71839844 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	General Knowledge
SubTopic	Indian History
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 3
Creator SME	SET 3
IIMB Difficulty	Medium

Mahatma Gandhi started his famous Salt March, also known as the Dandi March, from which of the following places?

Options :

1. ✘ Swaminarayan Temple, Gandhinagar
2. ✘ Salt Panes, Dandi
3. ✔ Sabarmati Ashram, Ahmedabad
4. ✘ Kirti Mandir, Porbandar

Hints :

<https://ncert.nic.in/textbook/pdf/jess302.pdf>

Question Number : 54 Question Id : 71839851 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	General Knowledge
SubTopic	Indian Geography
SME Difficulty Level	Difficult
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 3
Creator SME	SET 3
IIMB Difficulty	Difficult

Which of these is a meteorological satellite, which was launched by ISRO in February 2024?

Options :

1. ✘ XPoSat
2. ✘ GSAT-24
3. ✘ NVS-01
4. ✔ INSAT-3DS

Hints :

https://www.isro.gov.in/INSAT-3DS_imaging_Earth.html#:~:text=INSAT%2D3DS%2C%20the%20meteorological%20satellite,launched%20on%20February%2017%2C%202024.

Question Number : 55 Question Id : 71839854 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	General Knowledge
SubTopic	Indian Economy
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024

Shift	Shift 1
Reviewer SME	SET 3
Creator SME	SET 3
IIMB Difficulty	Easy

Who is the founder of InMobi, who received 'Future Leaders Award' in 2015?

Options :

1. ✘ Ritesh Agarwal
2. ✔ Naveen Tewari
3. ✘ P. C. Mustafa
4. ✘ Sachin Bansal

Hints :

<https://www.inmobi.com/company/leadership/naveen-tewari>

<https://iitk.ac.in/dora/profile/naveen-tewari>

Question Number : 56 Question Id : 71839885 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	General Knowledge
SubTopic	Art and Culture
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 4
Creator SME	SET 4
IIMB Difficulty	Medium

Who wrote the book 'The Idea of Democracy'?

Options :

1. ✔ Sam Pitroda
2. ✘ M.J. Akbar
3. ✘ S. Raman

4. ✖ Manorama Mishra

Hints :

<https://www.penguin.co.in/book/the-idea-of-democracy/>

The Idea of Democracy

by [Sam Pitroda](#) (Author)

<https://www.amazon.in/Idea-Democracy-Sam-Pitroda/dp/0143467042>

Question Number : 57 Question Id : 718398225 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	General Knowledge
SubTopic	Indian History
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 2
Creator SME	SET 2
IIMB Difficulty	Medium

The Vandemataram Movement was initiated in Andhra Pradesh in 1907 following the _____.

Options :

1. ✖ Second World War
2. ✖ Bengal famine
3. ✖ Jalianwala Baug massacre
4. ✔ Partition of Bengal

Hints :

The Vande Mataram movement was started on February 11, 1907, in Andhra Pradesh following the announcement of the Bengal Partition of 1905.

<https://amritmahotsav.nic.in/district-repository-detail.htm?10422>

The partition of Bengal infuriated people all over India. All sections of the Congress – the Moderates and the Radicals, as they may be called – opposed it. Large public meetings and demonstrations were organised and novel methods of mass protest developed. The struggle that unfolded came to be known as the Swadeshi movement, strongest in Bengal but with echoes elsewhere too – in deltaic Andhra for instance, it was known as the Vandemataram Movement.

Andhra Kesari and the Vandemataram Movement | INDIAN CULTURE

<https://ncert.nic.in/textbook/pdf/hess209.pdf>

Question Number : 58 Question Id : 718398232 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	General Knowledge
SubTopic	Indian Economy
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 2
Creator SME	SET 2
IIMB Difficulty	Easy

_____ is the Chairman of Reliance Jio Infocomm Limited as on 1st June 2024.

Options :

1. ✘ Anant Ambani
2. ✘ Mukesh Ambani
3. ✘ Isha Ambani
4. ✔ Akash Ambani

Hints :

Akash M. Ambani (DIN: 06984194) is an Indian business leader serving as the Chairman of Reliance Jio Infocomm Limited (RJIL) since June 2022.

<https://www.ril.com/about/board-of-directors/akash-ambani>

May 1, 2024

Akash Ambani, Chairman of Reliance Jio Infocomm said

<https://timesofindia.indiatimes.com/technology/tech-news/reliance-jio-chairman-akash-ambani-on-5g-services-this-is-driving-consistent-/articleshow/109511353.cms>

Question Number : 59 Question Id : 718398236 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	General Knowledge
SubTopic	Art and Culture
SME Difficulty Level	Easy
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 2
Creator SME	SET 2
IIMB Difficulty	Easy

Which of the following persons was a famous ‘santoor’ (musical instrument) player?

Options :

1. ✓ Pandit Shivkumar Sharma
2. ✗ Ustad Bismillah Khan
3. ✗ Pandit Bhimsen Joshi
4. ✗ Ustad Alla Rakha

Hints :

Shiv Kumar Sharma (born January 13, 1938, Jammu [now in Jammu and Kashmir], India—died May 10, 2022, Mumbai, India) was an Indian sanṭūr (hammered dulcimer) virtuoso

<https://www.britannica.com/biography/Shiv-Kumar-Sharma>

Bismillah Khan (born March 21, 1916, Dumraon, Bihar and Orissa province, British India—died August 21, 2006, Varanasi, Uttar Pradesh, India)

was an Indian musician who played the shehnai

<https://www.britannica.com/biography/Bismillah-Khan>

A new biography of Pt. Bhimsen Joshi released for his centenary traces his journey from a small Karnataka town to becoming one of India's most celebrated khayal artistes

<https://www.thehindu.com/entertainment/music/pt-bhimsen-joshi-the-making-of-a-maestro/article37446411.ece>

Alla Rakha (born April 29, 1919, Phagwal, Jammu, India—died February 3, 2000, Mumbai) was an Indian tabla player,
<https://www.britannica.com/biography/Alla-Rakha>

Question Number : 60 Question Id : 718398355 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1 Wrong Marks : 0

Question Key Details :

Key	Value
Topic	General Knowledge
SubTopic	Indian Economy
SME Difficulty Level	Medium
Review Status	IIM Approved
Item Year	2024
Shift	Shift 1
Reviewer SME	SET 1
Creator SME	SET 1
IIMB Difficulty	Medium

Which of the following statements about the sectors of the economy is **CORRECT**?

Options :

1. ✘ Secondary activities encompass trade and commerce in goods and services.
2. ✘ Tertiary activities include agriculture, mining, and fishing.
3. ✘ Quaternary activities involve research, development, and innovation in technology and sciences.
4. ✔ Primary activities involve processing raw materials for finished goods.

Hints :

Primary activities are directly dependent on environment as these refer to utilisation of earth's resources such as land, water, vegetation, building materials and minerals. It, thus includes, hunting and gathering, pastoral activities, fishing, forestry, agriculture, and mining and quarrying.

<https://ncert.nic.in/ncerts/l/legy105.pdf>

Similarly we have farmers growing crops, business houses engaged in extracting raw materials/minerals from earth (coal-mines, iron-ore mines etc.), extracting materials from forest for further processing (like collecting natural honey, timber etc.), extracting items from sea/river (like fish, crab, prawn, sea foods etc.). All these are examples of extractive industries.

<https://nios.ac.in/media/documents/srsec319new/319EL1.pdf>