



GLOBAL BUSINESS OPERATIONS

SHRI RAM COLLEGE OF COMMERCE

Section : English Comprehension and Language Ability

Comprehension:

Read the given passage and answer the questions.

For those of us without access to outside green space, houseplants are a stylish and affordable way of getting a nature fix. Alongside looking nice, indoor plants actually have several other perks – the biggest benefit of which could be improving your mental health. And the good news is you don't need to be a self-professed "plant parent" to experience these benefits either. One in eight UK households don't have access to any kind of garden. Young people and those from minority ethnic backgrounds are among those least likely to have a garden. Not having access to nature can have a number of effects on our health. It's been linked to symptoms of depression and anxiety, as well as other health conditions, such as asthma, cardiovascular disease, and poor immune function. For many of us, houseplants are an essential link to nature. While there's not yet a robust body of research on the mental health benefits of houseplants specifically, plenty of studies have shown how beneficial green space and gardening are for mental health. For instance, one study found that people who garden daily have better wellbeing and lower stress levels compared to those who don't. Gardening also reduces symptoms of depression and anxiety and increases positive emotions to the same extent as biking, walking and eating out. Many of these outcomes are likely to be true of houseplants too. A recent review of 42 studies demonstrates that even just being in the presence of indoor plants can improve mental and physical health. These experiments compared participants doing various activities in rooms with or without plants. The presence of plants saw better performances on cognitive tasks involving focus, sorting or memory recall, greater pain tolerance when holding hands in ice cold water, and lower levels of physiological stress. Interestingly, the aesthetic appearance of plants is important too, with separate research showing that people tend to react more positively to lush, green plants with rounded and denser foliage. But most of these studies are centred around the mere presence of plants. From research on the benefits of gardening, we can assume that caring for houseplants will bring out many more emotional benefits – such as pride, social connection, satisfaction, fascination, mental resilience in times of stress, and may even help you heal from past trauma.... Plants can remove pollutants such as carbon dioxide, nitrogen dioxide (from nearby traffic), fine particles (from dust) and volatile organic compounds (from air fresheners, cooking and cleaning). For people indoors for the majority of the day, indoor air quality is hugely important. High concentrations of carbon dioxide can reduce cognitive performance (such as concentration and memory recall) while prolonged exposure to other indoor pollutants can cause long-term health problems – ranging from minor eye or throat irritations to respiratory problems and cancer. But removing a meaningful quantity of indoor pollutants would require a lot of plants in a very bright room – something unrealistic for most people. If you do want to give it a try, plants with a high leaf area – such as an India rubber tree (*Ficus elastic*) or devil's ivy (*Epipremnum aureum*) are your best bet.

SubQuestion No : 1

Q.1 Please select a suitable word from the given choices which stands closest in meaning to the word 'cognitive' in the given passage.

- Ans
- A. rational
 - B. nonanalytical
 - C. noncerebral
 - D. reactive

Question Type : MCQ

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SubQuestion No : 2

Q.2 Please select a suitable word from the given choices which stands closest in meaning to the word 'resilience' in the given passage.

- Ans
- A. Bummer
 - B. Grit
 - C. Affliction
 - D. Tribulation

Question Type : MCQ

Comprehension:

Read the given passage and answer the questions.

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SubQuestion No : 3

Q.3 Which of the following will disapprove the main idea of the passage.

- Ans
- A. Indoor plants may not effectively remove indoor pollutants or significantly improve indoor air quality due to the unrealistic requirement of having many plants in a very bright room.
 - B. Research suggests that being in the presence of indoor plants can improve mental and physical health, including cognitive performance and stress reduction.
 - C. Lack of access to nature can have negative effects on mental and physical health, including depression, anxiety, and various diseases.
 - D. Caring for houseplants can bring emotional benefits such as pride, social connection, satisfaction, fascination, and mental resilience.

Question Type : MCQ

Comprehension:

Read the given passage and answer the questions.

For those of us without access to outside green space, houseplants are a stylish and affordable way of getting a nature fix. Alongside looking nice, indoor plants actually have several other perks – the biggest benefit of which could be improving your mental health. And the good news is you don't need to be a self-professed "plant parent" to experience these benefits either. One in eight UK households don't have access to any kind of garden. Young people and those from minority ethnic backgrounds are among those least likely to have a garden. Not having access to nature can have a number of effects on our health. It's been linked to symptoms of depression and anxiety, as well as other health conditions, such as asthma, cardiovascular disease, and poor immune function. For many of us, houseplants are an essential link to nature. While there's not yet a robust body of research on the mental health benefits of houseplants specifically, plenty of studies have shown how beneficial green space and gardening are for mental health. For instance, one study found that people who garden daily have better wellbeing and lower stress levels compared to those who don't. Gardening also reduces symptoms of depression and anxiety and increases positive emotions to the same extent as biking, walking and eating out. Many of these outcomes are likely to be true of houseplants too. A recent review of 42 studies demonstrates that even just being in the presence of indoor plants can improve mental and physical health. These experiments compared participants doing various activities in rooms with or without plants. The presence of plants saw better performances on cognitive tasks involving focus, sorting or memory recall, greater pain tolerance when holding hands in ice cold water, and lower levels of physiological stress. Interestingly, the aesthetic appearance of plants is important too, with separate research showing that people tend to react more positively to lush, green plants with rounded and denser foliage. But most of these studies are centred around the mere presence of plants. From research on the benefits of gardening, we can assume that caring for houseplants will bring out many more emotional benefits – such as pride, social connection, satisfaction, fascination, mental resilience in times of stress, and may even help you heal from past trauma.... Plants can remove pollutants such as carbon dioxide, nitrogen dioxide (from nearby traffic), fine particles (from dust) and volatile organic compounds (from air fresheners, cooking and cleaning). For people indoors for the majority of the day, indoor air quality is hugely important. High concentrations of carbon dioxide can reduce cognitive performance (such as concentration and memory recall) while prolonged exposure to other indoor pollutants can cause long-term health problems – ranging from minor eye or throat irritations to respiratory problems and cancer. But removing a meaningful quantity of indoor pollutants would require a lot of plants in a very bright room – something unrealistic for most people. If you do want to give it a try, plants with a high leaf area – such as an India rubber tree (*Ficus elastic*) or devil's ivy (*Epipremnum aureum*) are your best bet.

SubQuestion No : 4

Q.4 Which of the following statement is **TRUE**?

- Ans
- A. People tend to react more positively to artificial plants than to real plants.
 - B. Not having access to nature has no effect on our health.
 - C. For many of us, houseplants are an essential link to nature.
 - D. Gardening maximizes the symptoms of depression and anxiety.

Question Type : **MCQ**

Comprehension:

Read the given passage and answer the questions.

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SubQuestion No : 5

Q.5 Select the **CORRECT** option which shows the best summary of the passage.

- Ans
- A. Indoor plants or houseplants have no impact on mental health and only serve aesthetic purposes.
 - B. Houseplants offer a cost-effective way to connect with nature, enhance mental health, manage green spaces, and aid in pollutant removal, albeit requiring many plants in a well-lit setting for notable outcomes.
 - C. Houseplants are an expensive and ineffective way of connecting with nature for those without access to outdoor green space.
 - D. Houseplants have no emotional benefits and do not contribute to satisfaction, fascination, or mental resilience.

Question Type : MCQ

Q.6 Select the most appropriate option to fill in the blanks.

Hay provides the _____ of the horse's ration and may be of varying composition _____ locale. Mash is bran mixed with water and with _____ invigorating additions or medications. It may be given to horses with digestive troubles or deficient eating habits.

- Ans
- A. content, as per, variously
 - B. theme, in contrast to, excessively
 - C. bulk, according to, various
 - D. matter, as against, spurious

Question Type : MCQ

Q.7 Sentences of a paragraph are given below. While the first and the last sentences (S1 and S4) are given, some sentences (S2 and S3) are missing. Identify the alternative that will meaningfully fill in the gap.

S1. After spending a night in the town of Bodhgaya, the ancient settlement where Lord Buddha is said to have attained enlightenment, I set out that morning for Nalanda, whose red-brick ruins are all that remain of one of the greatest centres of learning in the ancient world.

S2. _____

S3. _____

S4. As the Dalai Lama once stated: "The source of all the [Buddhist] knowledge we have, has come from Nalanda."

Alternatives:

- A. Founded in 427 CE, Nalanda is considered the world's first residential university, a sort of medieval Ivy League institution home to nine million books that attracted 10,000 students from across Eastern and Central Asia.
- B. Interestingly, the monarchs of the Gupta Empire that founded the monastic university were devout Hindus, but sympathetic towards Buddhism.
- C. They gathered here to learn medicine, logic, mathematics and – above all – Buddhist principles from some of the era's most revered scholars.

- Ans
- A. AC
 - B. CA
 - C. BC
 - D. CB

Question Type : MCQ

Q.8 Select the most appropriate option to fill in the blank.

A momentous change is evident in transport networking and soon India _____ the speed club.

- Ans
- A. has joined
 - B. joins
 - C. will join
 - D. will have joined

Question Type : MCQ

Q.9 Select the most appropriate meaning of the underlined idiom.

After facing numerous setbacks in the project, Jay decided to throw in the towel completely.

- Ans
- A. Persist
 - B. Review
 - C. Abandon
 - D. Accomplish

Question Type : MCQ

Q.10 Select the most appropriate option to fill in the blank.

The city of Varanasi by the Ganges is not only India's oldest, but also one of the most important cities _____ the Hindus. Funeral rites (cremations) are famously performed _____ the city, which dates back to around 1000 BCE.

- Ans
- A. by ; in
 - B. for ; in
 - C. to ; for
 - D. for ; into

Question Type : MCQ

Q.11 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Several studies support the idea / that the amount of consistent sleep / you receive significantly impacts / a quantity of gray matter in your brain.

- Ans
- A. Several studies support the idea
 - B. that the amount of consistent sleep
 - C. you receive significantly impacts
 - D. a quantity of gray matter in your brain

Question Type : MCQ

Q.12 Select the most appropriate ANTONYM of the underlined word.

Rising greenhouse gas emissions intensify global warming, impacting ecosystems, weather patterns, and sea levels worldwide.

- Ans
- A. Amplify
 - B. Worsen
 - C. Diminish
 - D. Escalate

Question Type : MCQ

Q.13 Select the most appropriate option to fill in the blanks.

The exhibit of the South African men in Boston began with a cacophony of animal _____ made by the 'savages' while out of sight. The troupe then _____ onto the stage, barely _____ in skins and feathers and clutching spears and clubs, and _____ to perform several native songs and dances.

- Ans
- A. sounds, leaped, clad, proceeded
 - B. echoes, slipped, visible, exalted
 - C. sights, slipped, garbed, pretended
 - D. snouts, stepped, clad, halted

Question Type : MCQ

Q.14 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Several proposals were / put on at the meeting, / but none was / appealing enough.

- Ans
- A. but none was
 - B. Several proposals were
 - C. appealing enough
 - D. put on at the meeting,

Question Type : MCQ

Q.15 Select the most appropriate option that can substitute the underlined segment in the given sentence.

The unique concept of a heritage and educational district peaked volumes of citizens and heritage enthusiasts in the whole district.

- Ans
- A. piqued the interest
 - B. picked the numbers
 - C. peaked the interest
 - D. picked the voices

Question Type : MCQ

Q.16 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

In today's motivational literature, / failure is often celebrated / as a essential / stepping stone to success.

- Ans
- A. stepping stone to success
 - B. In today's motivational literature
 - C. as a essential
 - D. failure is often celebrated

Question Type : MCQ

Q.17 Select the most appropriate option to fill in the blank.

The crowd was _____ by his passionate speech.

- Ans
- A. carried away
 - B. carried on
 - C. carried off
 - D. carried out

Question Type : MCQ

Q.18 Identify the proverb that best captures the idea that caution and preparedness lead to success.

- Ans
- A. Too many cooks spoil the broth
 - B. Let the cat out of the bag
 - C. Don't count your chickens before they hatch
 - D. A stitch in time saves nine

Question Type : MCQ

Q.19 Select the most appropriate option to fill in the blanks.

Christmas trees spread around the world, but the tradition began to have a _____ impact on forests, especially in Germany. As a result, Germans began making artificial goose-feather trees in the 1880s. These trees _____ different countries, and over time the goose feathers were replaced by other materials. A notable development occurred in the 1930s, when a manufacturer of toilet bowl brushes allegedly used surplus product to _____ an artificial tree.

- Ans
- A. differential, had prevailed in, auction
 - B. detrimental, found their way to, create
 - C. prolific, were moved to, auction
 - D. benign, came from, auction

Question Type : MCQ

Q.20 Select the most appropriate option that can substitute the underlined segment in the given sentence.

The Delhi High Court has ruled that the period under which an employee is placed under suspension cannot be treated as period "not spent on duty" for all extensive purposes.

- Ans
- A. for all intensive purposes
 - B. for all intents and purposes
 - C. for all intentions and purposes
 - D. for all intents and porpoises

Question Type : MCQ

Q.21 Select the most appropriate option to fill in the blanks.

Today, natural history data and research _____ to be a quintessential complement to theoretical and experimental methods of inquiry: they _____ the baseline knowledge of natural systems required to extrapolate broader theory, test hypotheses and _____ the general principles that govern natural systems.

- Ans
- A. struggle, question, command
 - B. continue, provide, uncover
 - C. struggle, protect, uncover
 - D. continue, consume, command

Question Type : MCQ

Q.22 Select the most appropriate option to fill in the blanks.

It has found a _____ recently in the halls of Congress, where the hypothesis has enjoyed _____ amid a push for government _____ of whatever anyone might know about extraterrestrials.

- Ans
- A. strange affliction, bipolar ardour, disclosure
 - B. strange defection, bipolar ardour, concealment
 - C. warm reception, bipartisan support, disclosure
 - D. strong preconception, bipartisan support, personnel

Question Type : MCQ

Q.23 Select the most appropriate meaning of the underlined idiom.

After her work, Sarika was ready to hit the hay.

- Ans
- A. Start a new project
 - B. Go to bed
 - C. Go for a run
 - D. Apply for vacation

Question Type : MCQ

Q.24 Match the given words with their meanings.

Words	Meanings
a. Pathos	1. Intellectual
b. Paucity	2. Pity
c. Pedant	3. Scarcity

- Ans
- A. a-2, b-3, c-1
 - B. a-1, b-3, c-2
 - C. a-2, b-1, c-3
 - D. a-3, b-1, c-2

Question Type : MCQ

Q.25 Select the most appropriate **ANTONYM** of the underlined word.

The first hurdle that the organisers of the concert had to face was obtaining sponsorship from a company. They surmounted this obstacle with the help of several enthusiastic members.

- Ans
- A. Defeated
 - B. Yielded
 - C. Conquered
 - D. Overpowered

Question Type : MCQ

Q.26 Select the most appropriate meaning of the given idiom.

Bite the bullet

- Ans
- A. Avoid making a decision on something
 - B. Face a difficult situation with courage
 - C. Playfully nibble on something
 - D. Chew on a tasty treat

Question Type : MCQ

Q.27 Select the most appropriate option to fill in the blanks.

Digital cameras soon gained market share, gradually _____ most film camera sales to cheap, disposable, single-use models. However, with the introduction of smartphones containing ever more-advanced cameras, digital camera sales _____ by 90 per cent in the 2010s.

- Ans
- A. elevating; thrived
 - B. relegating; fell
 - C. simulating; dwindled
 - D. expanding; rose

Question Type : MCQ

Q.28 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

At the end, Ashoka was overcome / in regret at the bloodshed / that had taken place / as a result of the Kalinga battle.

- Ans
- A. in regret at the bloodshed
 - B. At the end, Ashoka was overcome
 - C. that had taken place
 - D. as a result of the Kalinga battle

Question Type : MCQ

Q.29 Select the option that could substitute the underlined word in the sentence below, without affecting its contextual relevance.

The son wanted to take his mother home but the doctors said that moving her could have a detrimental effect on her health.

- Ans
- A. favourable
 - B. damaging
 - C. assisting
 - D. beneficial

Question Type : MCQ

Q.30 Four jumbled up sentences, related to a topic, are given below. Three of them can be put together to form a coherent paragraph. Identify the odd one out.

1. An esparto grass (*Lygeum spartum*) is found in the steppes of La Mancha and the southeast; the esparto products of Spain, however, come from an associated alfa grass (*Stipa tenacissima*).
2. Brown forest soils are restricted to humid Galicia and Cantabria.
3. The mountains of the northern Meseta and the Iberian and Baetic cordilleras carry deciduous Portuguese oak; those of the central Pyrenees, the Iberian ranges and the Central Sierras have diverse pine species.
4. Northern Spain has heath and deciduous woodland (oak, beech).

- Ans
- A. 3
 - B. 1
 - C. 4
 - D. 2

Question Type : MCQ

Q.31 Select the most appropriate meaning of the underlined idiom.

Despite their initial friendship, the roommates soon discovered that familiarity breeds contempt.

- Ans
- A. Familiarity enhances camaraderie, fostering mutual appreciation.
 - B. Intimacy nurtures affection, creating a foundation of enduring warmth.
 - C. Closeness leads to dislike as flaws become more apparent.
 - D. Closeness deepens understanding and strengthens mutual respect.

Question Type : MCQ

Q.32 Four words have been given out of which three are alike in some manner and one is different. Select the one that is different.

- Ans
- A. Ineffable
 - B. Perspicacious
 - C. Discerning
 - D. Mellifluous

Question Type : MCQ

Q.33 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. The one most noticeable change was that foreign faces were no longer to be seen on the streets.
- B. After the initial panic, the streets quickly quietened.
- C. Over the next few days, people went about their business just as they had before.
- D. The bazaar reopened and the fishwives came back to rummage through the refuse heap, looking for their lost goods.

- Ans
- A. BDCA
 - B. ABDC
 - C. CDAB
 - D. BACD

Question Type : MCQ

Q.34 In the sentence, which word-segment could mean 'fishing in troubled waters'?

Knowing the past bitter experience with the rival firm, Ms. Vijaya cautiously approaches the subtle negotiation, already being aware of the fact that she is fishing in troubled waters.

- Ans
- A. Unskilled in favouring
 - B. Fraught with difficulties
 - C. Inconsiderate in resentment
 - D. Firm in supply

Question Type : MCQ

Q.35 Select the most appropriate option to fill in the blank.

My mother usually _____ for her classes at 9 a.m. and returns at 5 p.m.

- Ans
- A. is leaving
 - B. leaves
 - C. was leaving
 - D. has left

Question Type : MCQ

Q.36 Select the most appropriate option to fill in the blanks.

House and Senate Republicans are backing _____ construction of a border wall, former President Donald Trump's signature policy, while _____ large numbers of migrants _____ for asylum and reviving a _____ policy under which asylum seekers are told to remain in Mexico while their immigration case is heard.

- Ans
- A. renewed, deeming, ineligible, controversial
 - B. ensued, demeaning, fleeing, sacrosanct
 - C. renowned, defaming, running, controversial
 - D. ingrained, depicting, incapable, sacrosanct

Question Type : MCQ

Q.37 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

One of these authors are / going to win / the Booker Award / for his or her book.

- Ans
- A. the Booker Award
 - B. going to win
 - C. for his or her book
 - D. One of these authors are

Question Type : MCQ

Q.38 Select the most appropriate option to fill in the blanks.

Cells also began living together, probably because certain benefits could be _____. Groups of cells might be able to feed more _____ or gain protection from simply being bigger. Living _____, cells began to support the needs of the group by each cell doing a specific job.

- Ans
- A. imagined, generously, deficiently
 - B. obtained, efficiently, collectively
 - C. abstained, efficiently, effusively
 - D. contained, efficiently, separately

Question Type : MCQ

Q.39 Match the given words with their meanings.

Words	Meanings
a. Rejuvenate	1. Renounce
b. Relinquish	2. Refer
c. Relegate	3. Refresh

- Ans
- A. a -3, b -1, c-2
 - B. a-2, b-1, c-3
 - C. a-2, b-3, c-1
 - D. a-1, b- 3, c-2

Question Type : MCQ

Q.40 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. Bala Singh saw me coming and made no attempt to greet me, which was very unusual, and to all my questions he returned the one answer — that he was not ill.
- B. That day we did our two-mile march in silence, Bala Singh bringing up the rear and moving like a man who was walking in his sleep, or who was under the influence of drugs.
- C. I had six Garhwalis to carry my luggage and I noticed that it was being made up into five head-loads, and that Bala Singh was sitting apart near the camp fire with a blanket over his head and shoulders.
- D. After breakfast I walked over to him, and noted as I did so that all the other men had stopped work and were watching me very intently.

- Ans
- A. ACDB
 - B. CBDA
 - C. DBAC
 - D. CDAB

Question Type : MCQ

Comprehension:

Chart 1 shows percentage of revenue generated in four quarters of year 2020 for a company. Chart 2 shows the profit by percentage of revenue generated for that respective quarter in year 2020.

If the total revenue generated by company is 225 million rupees in year 2020, then study the charts and answer the questions that follow.

Chart 1: Revenue generated in the year 2020

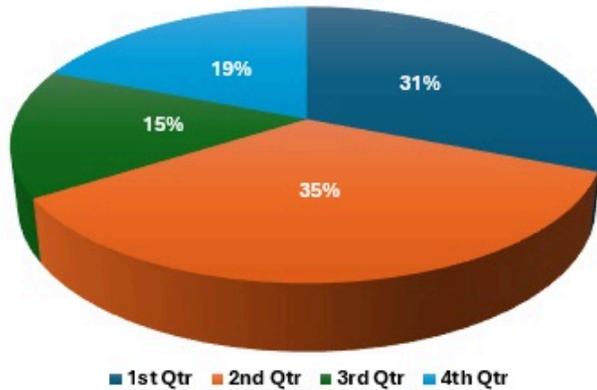
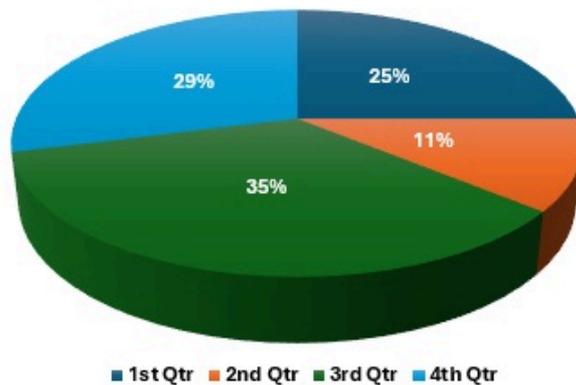


Chart 2: Profit by percentage of revenue generated for that respective quarter in the year 2020



SubQuestion No : 1

Q.1 In which of the following quarters is the profit the maximum?

- Ans
- A. Fourth
 - B. First
 - C. Second
 - D. Third

Question Type : MCQ

Comprehension:

Chart 1 shows percentage of revenue generated in four quarters of year 2020 for a company. Chart 2 shows the profit by percentage of revenue generated for that respective quarter in year 2020.

If the total revenue generated by company is 225 million rupees in year 2020, then study the charts and answer the questions that follow.

Chart 1: Revenue generated in the year 2020

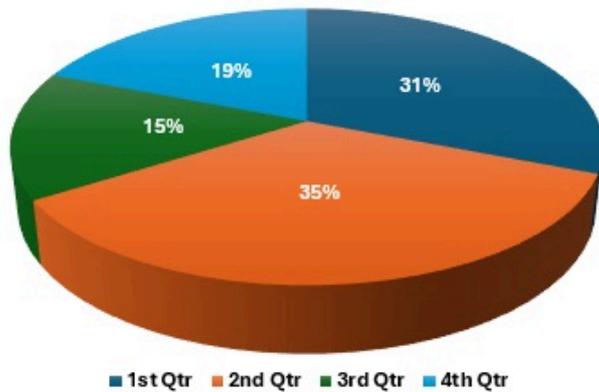
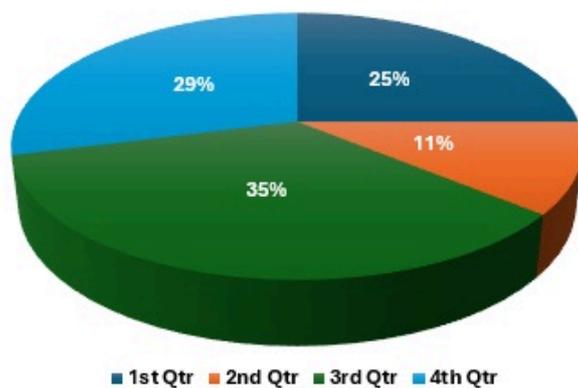


Chart 2: Profit by percentage of revenue generated for that respective quarter in the year 2020



SubQuestion No : 2

Q.2 What is the average of profit (in million rupees) generated in the 1st and 4th quarters?

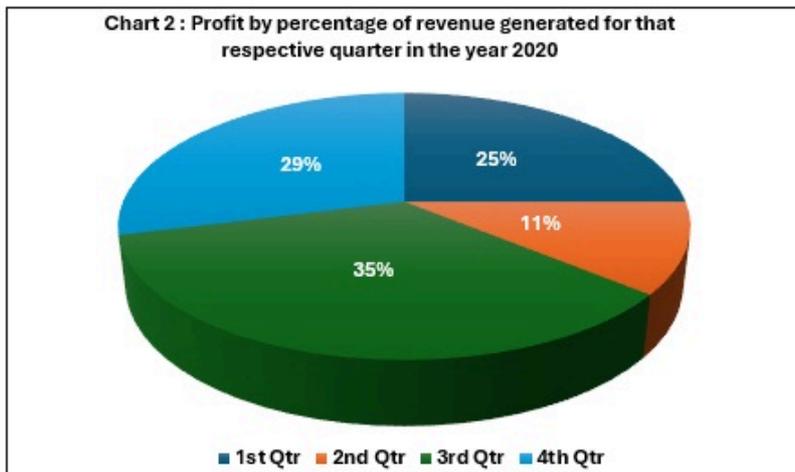
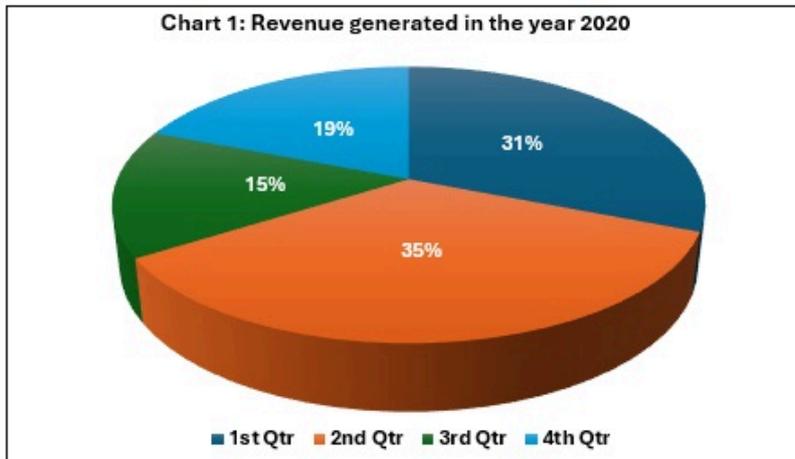
- Ans
- A. 4,43,59,500
 - B. 1,49,17,500
 - C. 2,45,87,500
 - D. 3,15,46,500

Question Type : MCQ

Comprehension:

Chart 1 shows percentage of revenue generated in four quarters of year 2020 for a company. Chart 2 shows the profit by percentage of revenue generated for that respective quarter in year 2020.

If the total revenue generated by company is 225 million rupees in year 2020, then study the charts and answer the questions that follow.



SubQuestion No : 3

Q.3 If x is the profit generated in the 1st and 2nd quarters and y is the profit generated in the 3rd and 4th quarters, then find which of the following relations is correct?

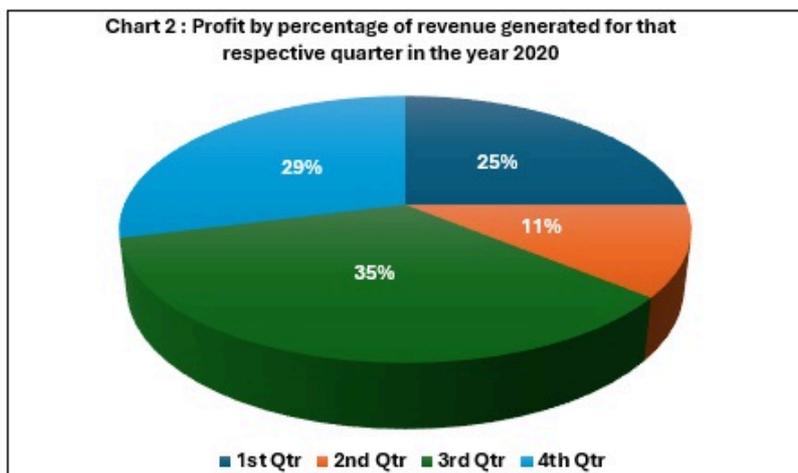
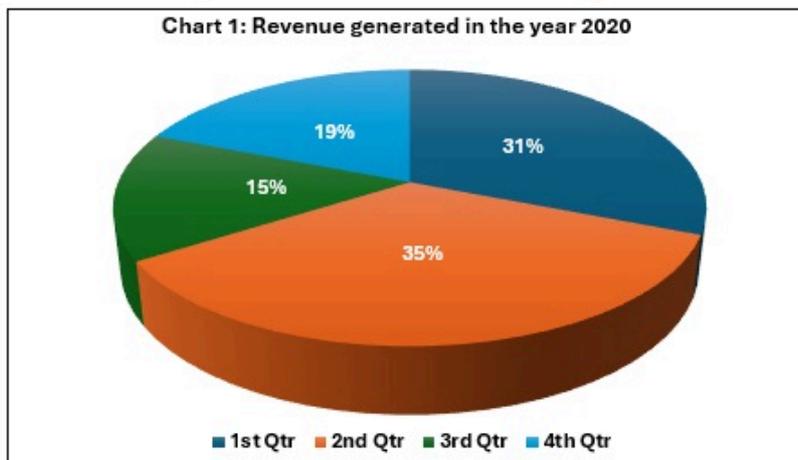
- Ans
- A. $y = 2x$
 - B. $x > y$
 - C. $x = y$
 - D. $x < y$

Question Type : MCQ

Comprehension:

Chart 1 shows percentage of revenue generated in four quarters of year 2020 for a company. Chart 2 shows the profit by percentage of revenue generated for that respective quarter in year 2020.

If the total revenue generated by company is 225 million rupees in year 2020, then study the charts and answer the questions that follow.



SubQuestion No : 4

Q.4 What is the profit (in rupees) of the company in the 2nd quarter of the year 2020?

- Ans
- A. 68,86,500
 - B. 86,62,500
 - C. 92,78,500
 - D. 72,45,500

Question Type : MCQ

Comprehension:

The table provided displays the estimated cost (in ₹ lakh) for the construction of a canal between two points.

	2020	2021	2022	2023
Graphing	62.3	11.3	3.3	0.8
Bolster	0.0	142.5	120.0	112.5
Brace	0.0	105.0	67.5	90.0
Slabs	0.0	22.5	18.0	24.0
Other material	0.0	37.5	27.0	31.5
Labour	3.2	37.5	30.0	27.0
Management	11.3	22.5	22.5	21.0
Exigencies	1.5	22.5	6.3	7.5

Based on the information in the table, answer the questions that follow.

SubQuestion No : 5

- Q.5 If the length of the canal to be laid each year is proportional to the estimated cost for materials and labour, what fraction of the total length is intended to be completed by the third year?

- Ans
- A. 0.72
 - B. 0.68
 - C. 0.70
 - D. 0.74

Question Type : MCQ

Comprehension:

The table provided displays the estimated cost (in ₹ lakh) for the construction of a canal between two points.

	2020	2021	2022	2023
Graphing	62.3	11.3	3.3	0.8
Bolster	0.0	142.5	120.0	112.5
Brace	0.0	105.0	67.5	90.0
Slabs	0.0	22.5	18.0	24.0
Other material	0.0	37.5	27.0	31.5
Labour	3.2	37.5	30.0	27.0
Management	11.3	22.5	22.5	21.0
Exigencies	1.5	22.5	6.3	7.5

Based on the information in the table, answer the questions that follow.

SubQuestion No : 6

Q.6 If the cost of materials increases by 5% each year from 2022 onwards, by how much will the estimated cost (in ₹ lakh) rise?

- Ans
- A. 23.53
 - B. 22.53
 - C. 24.53
 - D. 21.53

Question Type : **MCQ**

Comprehension:

The table provided displays the estimated cost (in ₹ lakh) for the construction of a canal between two points.

	2020	2021	2022	2023
Graphing	62.3	11.3	3.3	0.8
Bolster	0.0	142.5	120.0	112.5
Brace	0.0	105.0	67.5	90.0
Slabs	0.0	22.5	18.0	24.0
Other material	0.0	37.5	27.0	31.5
Labour	3.2	37.5	30.0	27.0
Management	11.3	22.5	22.5	21.0
Exigencies	1.5	22.5	6.3	7.5

Based on the information in the table, answer the questions that follow.

SubQuestion No : 7

Q.7 After preparing the estimate, the provision for contingencies is deemed inadequate and is therefore doubled. By how much percentage does the total estimate increase?

- Ans
- A. 3.47%
 - B. 3.07%
 - C. 2.87%
 - D. 3.27%

Question Type : **MCQ**

Comprehension:

The table provided displays the estimated cost (in ₹ lakh) for the construction of a canal between two points.

	2020	2021	2022	2023
Graphing	62.3	11.3	3.3	0.8
Bolster	0.0	142.5	120.0	112.5
Brace	0.0	105.0	67.5	90.0
Slabs	0.0	22.5	18.0	24.0
Other material	0.0	37.5	27.0	31.5
Labour	3.2	37.5	30.0	27.0
Management	11.3	22.5	22.5	21.0
Exigencies	1.5	22.5	6.3	7.5

Based on the information in the table, answer the questions that follow.

SubQuestion No : 8

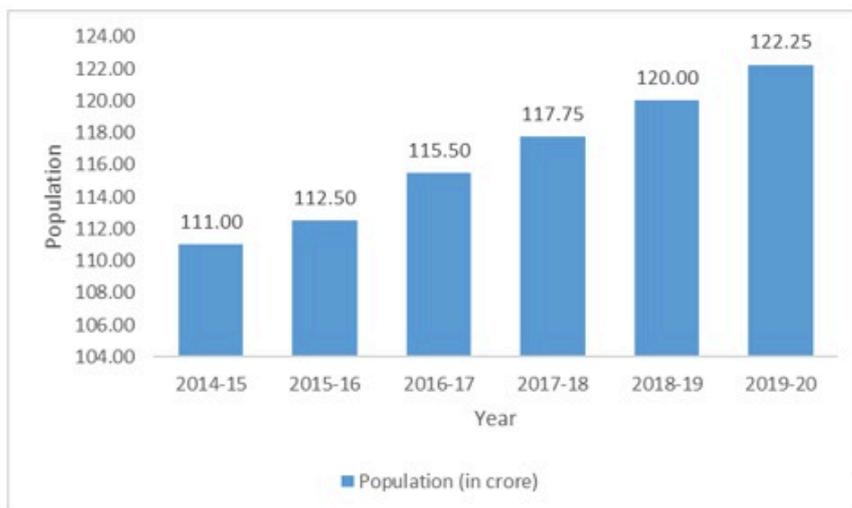
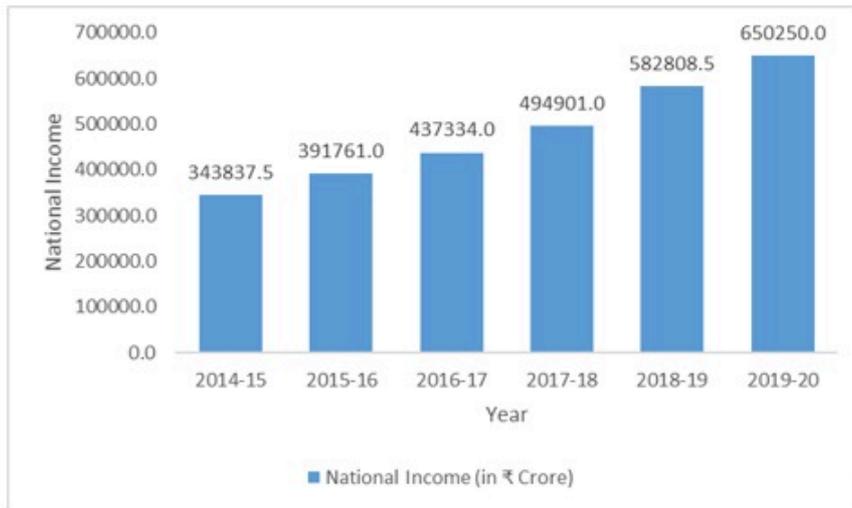
- Q.8 To ensure that the total expenditure remains within ₹1,050 lakh, an equal reduction in management expenditure is proposed for all years. What will be the percentage reduction for the year 2021?

- Ans
- A. 52.78%
 - B. 37.78%
 - C. 42.78%
 - D. 47.78%

Question Type : MCQ

Comprehension:

The provided bar graphs outline the population and national income of a country from the fiscal years 2014-15 to 2019-20.



For each of the ensuing questions, select the most suitable option.

SubQuestion No : 9

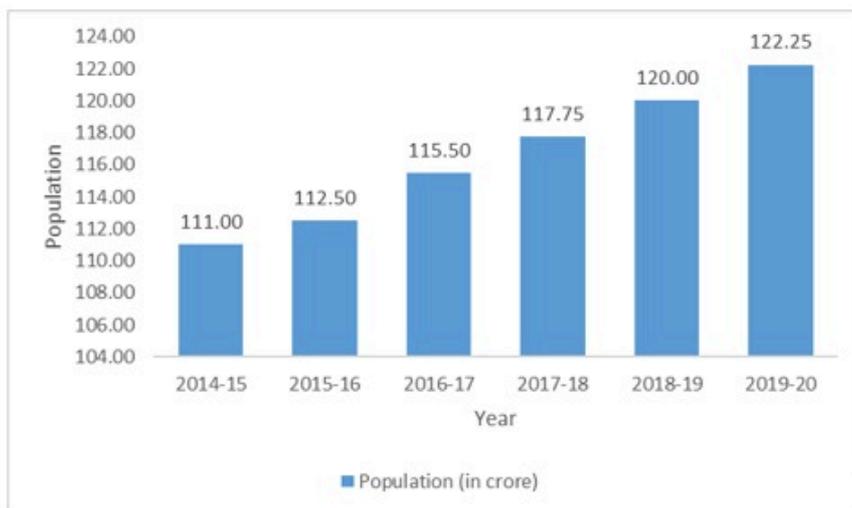
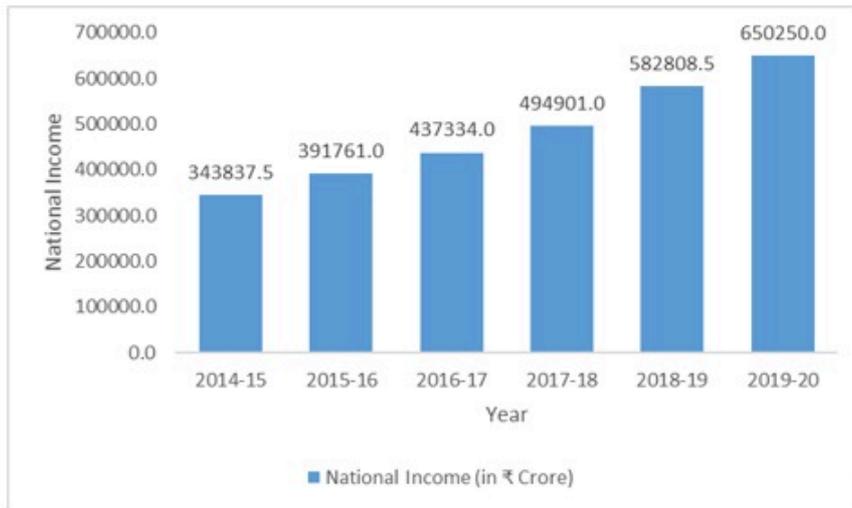
Q.9 In which year is the difference between the percentage increase in per capita income and the percentage increase in population compared to the previous year the highest?

- Ans
- A. 2016-17
 - B. 2018-19
 - C. 2017-18
 - D. 2015-16

Question Type : MCQ

Comprehension:

The provided bar graphs outline the population and national income of a country from the fiscal years 2014-15 to 2019-20.



For each of the ensuing questions, select the most suitable option.

SubQuestion No : 10

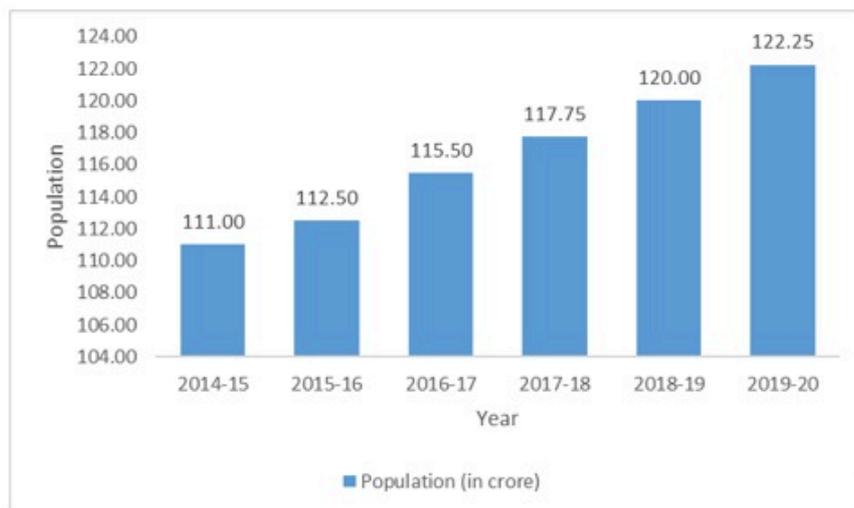
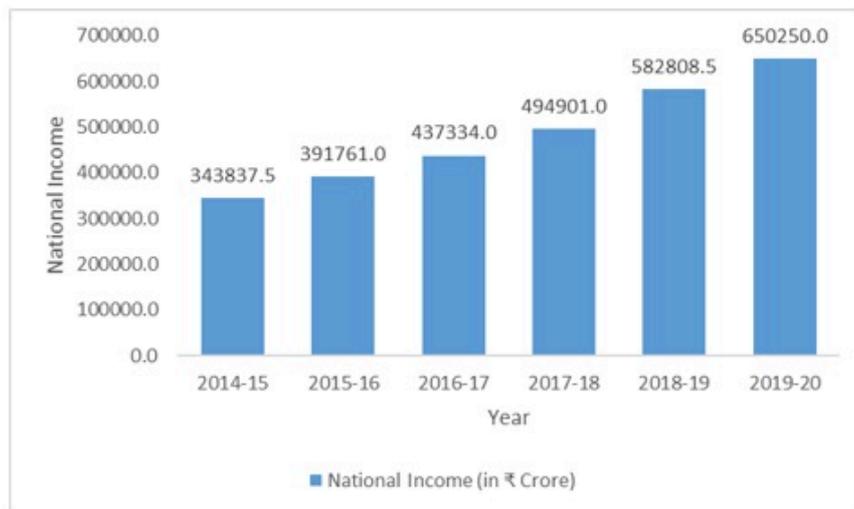
Q.10 In which year is the increase in per capita income compared to the previous year the lowest?

- Ans
- A. 2019-20
 - B. 2016-17
 - C. 2015-16
 - D. 2017-18

Question Type : MCQ

Comprehension:

The provided bar graphs outline the population and national income of a country from the fiscal years 2014-15 to 2019-20.



For each of the ensuing questions, select the most suitable option.

SubQuestion No : 11

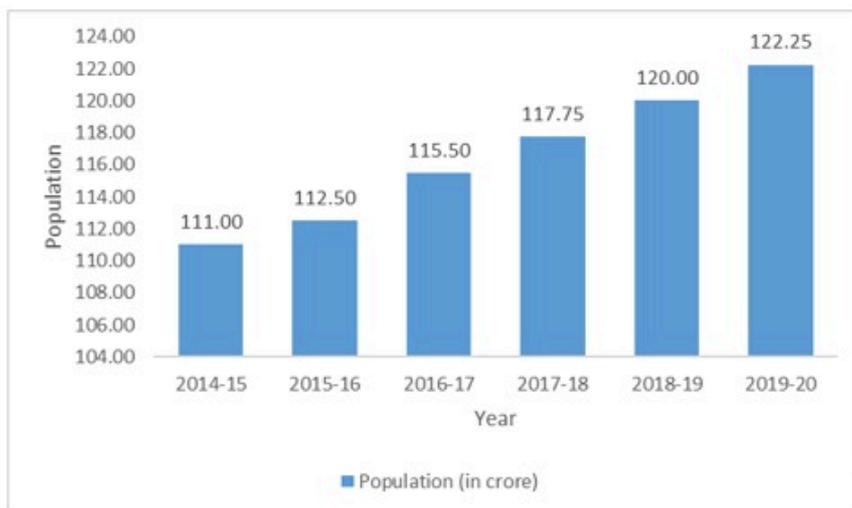
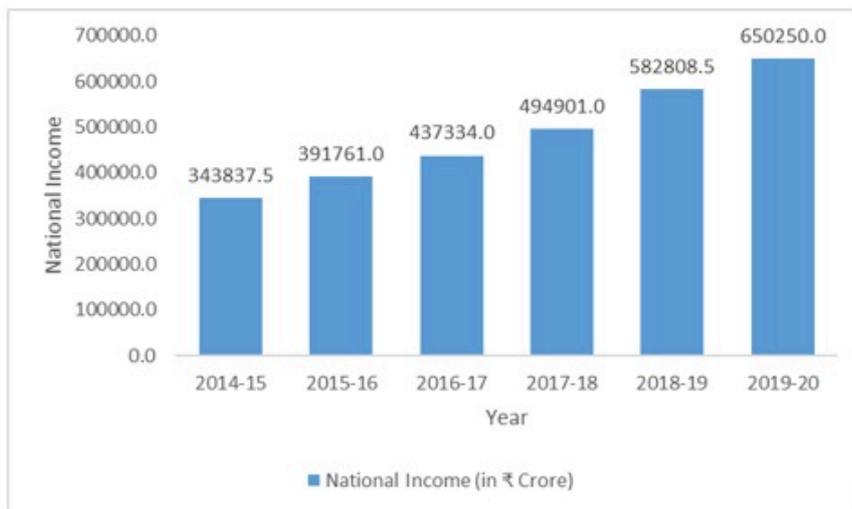
Q.11 Which of the following years witnessed the highest increase in per capita income compared to the previous year?

- Ans
- A. 2015-16
 - B. 2016-17
 - C. 2018-19
 - D. 2017-18

Question Type : MCQ

Comprehension:

The provided bar graphs outline the population and national income of a country from the fiscal years 2014-15 to 2019-20.



For each of the ensuing questions, select the most suitable option.

SubQuestion No : 12

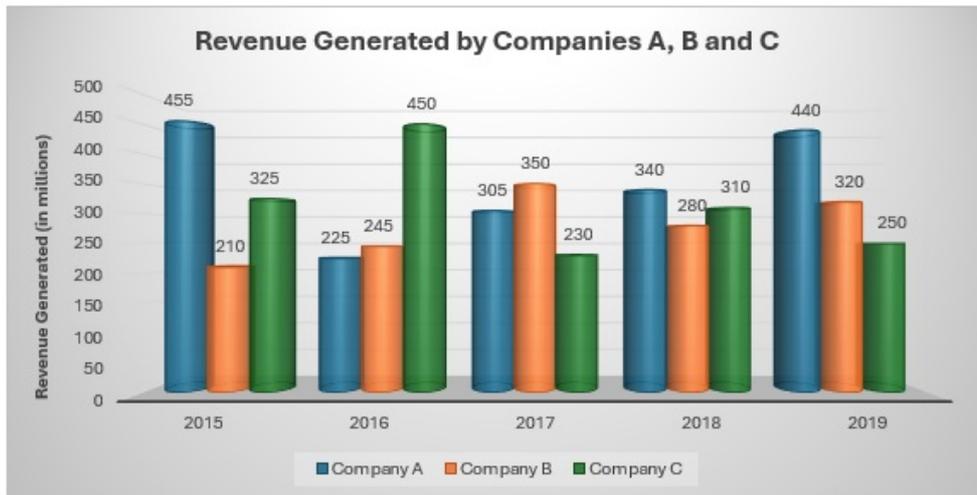
Q.12 In which year is the per capita income the highest?

- Ans
- A. 2019-20
 - B. 2015-16
 - C. 2014-15
 - D. 2017-18

Question Type : MCQ

Comprehension:

The following graph shows the revenue generated by three companies A, B and C in different years.



SubQuestion No : 13

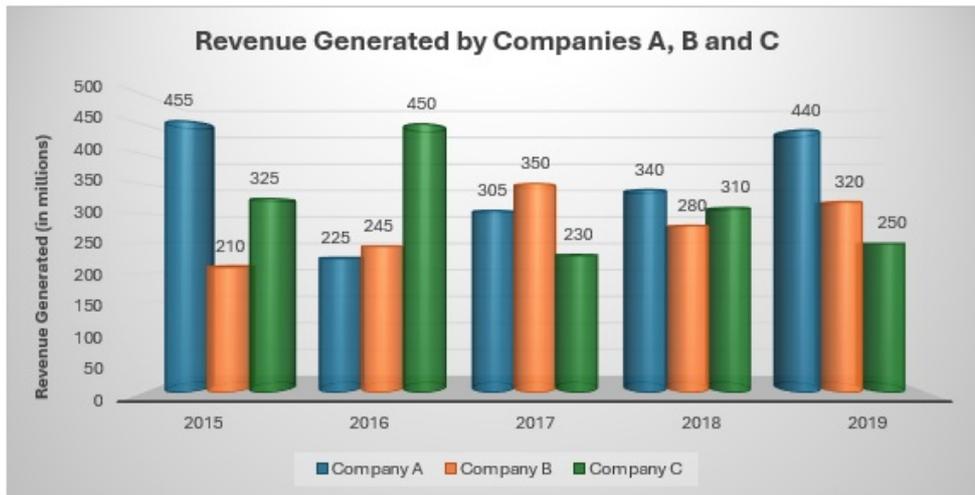
Q.13 What is the ratio of total revenue generated by company A to company B in given 5 years?

- Ans
- A. 353 : 281
 - B. 179 : 229
 - C. 257 : 223
 - D. 323 : 249

Question Type : MCQ

Comprehension:

The following graph shows the revenue generated by three companies A, B and C in different years.



SubQuestion No : 14

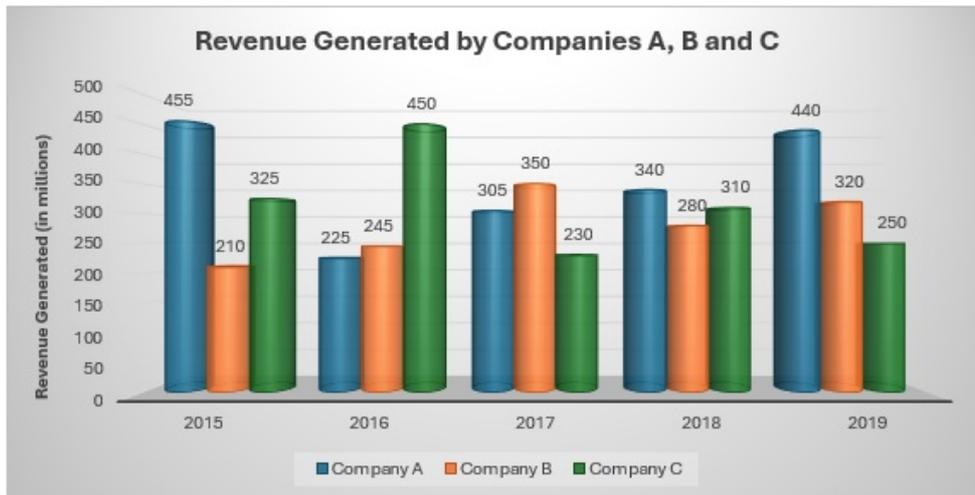
Q.14 What is the average of total revenue generated by company A in 2019, company B in 2018 and company C in 2016?

- Ans
- A. 350
 - B. 410
 - C. 280
 - D. 390

Question Type : MCQ

Comprehension:

The following graph shows the revenue generated by three companies A, B and C in different years.



SubQuestion No : 15

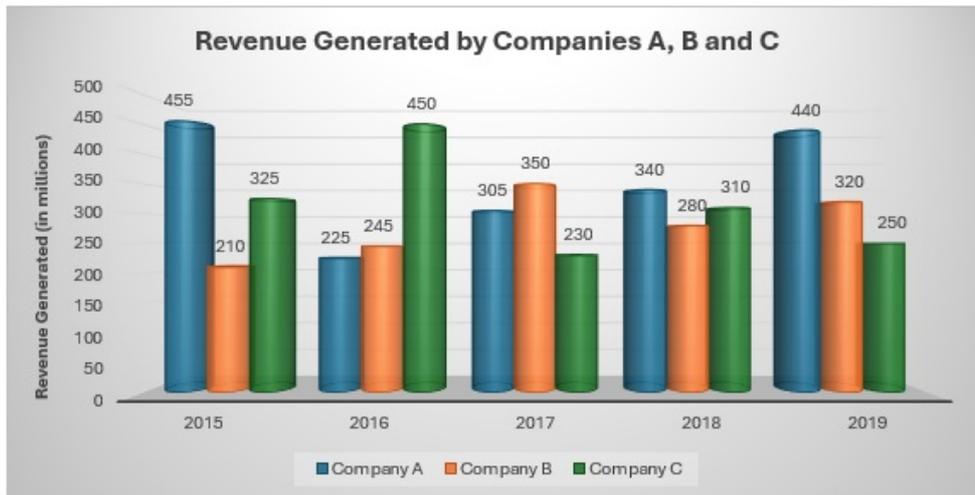
Q.15 What percentage is the revenue generated by companies A and B in year 2016 of revenue generated by companies B and C in year 2018?

- Ans
- A. 69.44%
 - B. 79.66%
 - C. 65.22%
 - D. 74.88%

Question Type : MCQ

Comprehension:

The following graph shows the revenue generated by three companies A, B and C in different years.



SubQuestion No : 16

Q.16 What is the average revenue generated by companies A, B and C in year 2015?

- Ans
- A. 380
 - B. 280
 - C. 330
 - D. 450

Question Type : MCQ

Comprehension:

The following table gives the marks obtained by six students in six different subjects in an examination.

The maximum marks for each subject are given in the brackets.

Students	Subjects (Max. Marks)					
	Hindi (120)	English (130)	Math (150)	Economics (140)	Accountancy (160)	Geography (100)
Aman	95	65	115	100	125	90
Kartik	60	95	130	95	100	80
Mukesh	105	90	95	110	140	85
Lokesh	55	115	60	65	75	70
Sumit	75	85	75	80	95	75
Sandhya	85	110	120	130	130	95

SubQuestion No : 17

Q.17 What is the average of total marks obtained by Aman, Kartik, Mukesh and Lokesh, in all subjects?

- Ans
- A. 493.75
 - B. 553.75
 - C. 523.25
 - D. 463.25

Question Type : MCQ

Comprehension:

The following table gives the marks obtained by six students in six different subjects in an examination.

The maximum marks for each subject are given in the brackets.

Students	Subjects (Max. Marks)					
	Hindi (120)	English (130)	Math (150)	Economics (140)	Accountancy (160)	Geography (100)
Aman	95	65	115	100	125	90
Kartik	60	95	130	95	100	80
Mukesh	105	90	95	110	140	85
Lokesh	55	115	60	65	75	70
Sumit	75	85	75	80	95	75
Sandhya	85	110	120	130	130	95

SubQuestion No : 18

Q.18 What percentage is the total marks obtained by Lokesh and Sumit in Hindi, English and Maths of the total marks obtained by Aman and Kartik in Economy, Accountancy and Geography (correct to one decimal place)?

- Ans A. 78.8%
 B. 62.4%
 C. 65.9%
 D. 73.1%

Question Type : MCQ

Comprehension:

The following table gives the marks obtained by six students in six different subjects in an examination.

The maximum marks for each subject are given in the brackets.

Students	Subjects (Max. Marks)					
	Hindi (120)	English (130)	Math (150)	Economics (140)	Accountancy (160)	Geography (100)
Aman	95	65	115	100	125	90
Kartik	60	95	130	95	100	80
Mukesh	105	90	95	110	140	85
Lokesh	55	115	60	65	75	70
Sumit	75	85	75	80	95	75
Sandhya	85	110	120	130	130	95

SubQuestion No : 19

Q.19 Find the ratio of total percentage marks obtained by Sumit and Sandhya in Hindi, English and Maths.

- Ans A. 49 : 73
 B. 53 : 78
 C. 47 : 63
 D. 39 : 88

Question Type : MCQ

Comprehension:

The following table gives the marks obtained by six students in six different subjects in an examination.

The maximum marks for each subject are given in the brackets.

Students	Subjects (Max. Marks)					
	Hindi (120)	English (130)	Math (150)	Economics (140)	Accountancy (160)	Geography (100)
Aman	95	65	115	100	125	90
Kartik	60	95	130	95	100	80
Mukesh	105	90	95	110	140	85
Lokesh	55	115	60	65	75	70
Sumit	75	85	75	80	95	75
Sandhya	85	110	120	130	130	95

SubQuestion No : 20

Q.20 What is the difference of the total marks obtained in all subjects by Sumit and Mukesh?

- Ans
- A. 130
 - B. 150
 - C. 120
 - D. 140

Question Type : MCQ

Comprehension:

Consider the provided scenario:

- A shepherd possessed a certain amount of cash, sheep and goats.
- The value of a sheep is ₹5,400 and the worth of a goat is ₹1,350.
- The shepherd distributed his cash and cattle equally in terms of value among his four sons.
- The eldest son received sheep worth 20% of the total worth and ₹33,750 in cash.
- The second son received goats worth 20% of the remaining worth and ₹67,500 in cash.
- The third and fourth sons received an equal number of sheep and goats, amounting to 20% of the remaining worth after the previous distribution.
- Each of the third and fourth sons received ₹33,750 more in cash than what the second son received.

Answer the following questions based on the given information.

SubQuestion No : 21

Q.21 The number of goats the youngest son received was:

- Ans
- A. 15
 - B. 18
 - C. 12
 - D. 10

Question Type : MCQ

Comprehension:

Consider the provided scenario:

- A shepherd possessed a certain amount of cash, sheep and goats.
- The value of a sheep is ₹5,400 and the worth of a goat is ₹1,350.
- The shepherd distributed his cash and cattle equally in terms of value among his four sons.
- The eldest son received sheep worth 20% of the total worth and ₹33,750 in cash.
- The second son received goats worth 20% of the remaining worth and ₹67,500 in cash.
- The third and fourth sons received an equal number of sheep and goats, amounting to 20% of the remaining worth after the previous distribution.
- Each of the third and fourth sons received ₹33,750 more in cash than what the second son received.

Answer the following questions based on the given information.

SubQuestion No : 22

Q.22 Overall, how much wealth did the shepherd have before its distribution among his sons?

- Ans
- A. ₹7,75,000
 - B. ₹6,25,000
 - C. ₹6,75,000
 - D. ₹7,25,000

Question Type : MCQ

Comprehension:

Consider the provided scenario:

- A shepherd possessed a certain amount of cash, sheep and goats.
- The value of a sheep is ₹5,400 and the worth of a goat is ₹1,350.
- The shepherd distributed his cash and cattle equally in terms of value among his four sons.
- The eldest son received sheep worth 20% of the total worth and ₹33,750 in cash.
- The second son received goats worth 20% of the remaining worth and ₹67,500 in cash.
- The third and fourth sons received an equal number of sheep and goats, amounting to 20% of the remaining worth after the previous distribution.
- Each of the third and fourth sons received ₹33,750 more in cash than what the second son received.

Answer the following questions based on the given information.

SubQuestion No : 23

Q.23 The number of sheep the eldest son received was:

- Ans
- A. 30
 - B. 35
 - C. 20
 - D. 25

Question Type : **MCQ**

Comprehension:

Consider the provided scenario:

- A shepherd possessed a certain amount of cash, sheep and goats.
- The value of a sheep is ₹5,400 and the worth of a goat is ₹1,350.
- The shepherd distributed his cash and cattle equally in terms of value among his four sons.
- The eldest son received sheep worth 20% of the total worth and ₹33,750 in cash.
- The second son received goats worth 20% of the remaining worth and ₹67,500 in cash.
- The third and fourth sons received an equal number of sheep and goats, amounting to 20% of the remaining worth after the previous distribution.
- Each of the third and fourth sons received ₹33,750 more in cash than what the second son received.

Answer the following questions based on the given information.

SubQuestion No : 24

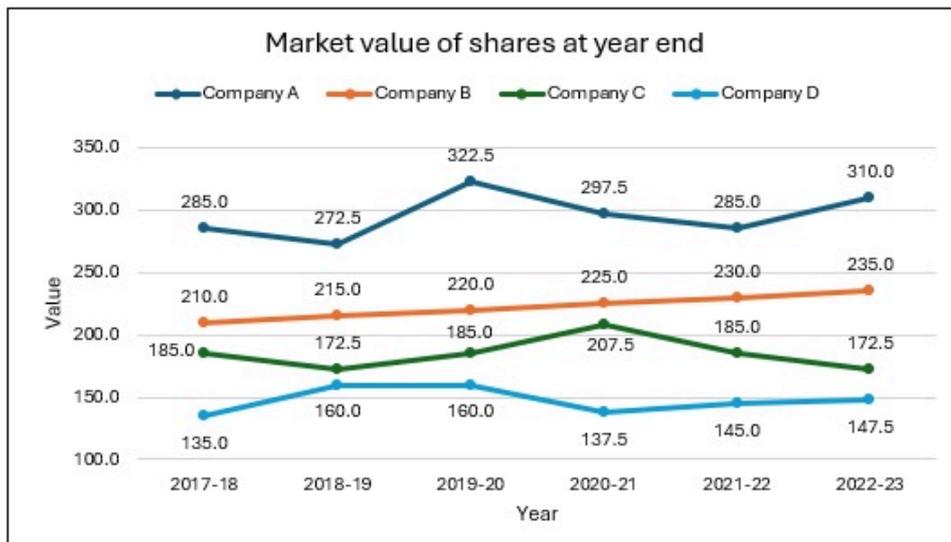
Q.24 The total number of legs of all the cattle is:

- Ans**
- A. 560
 - B. 580
 - C. 540
 - D. 520

Question Type : **MCQ**

Comprehension:

The given chart illustrates the end-of-year market values of four shares from 2017-18 to 2022-23.



Based on this information, answer the questions that follow.

SubQuestion No : 25

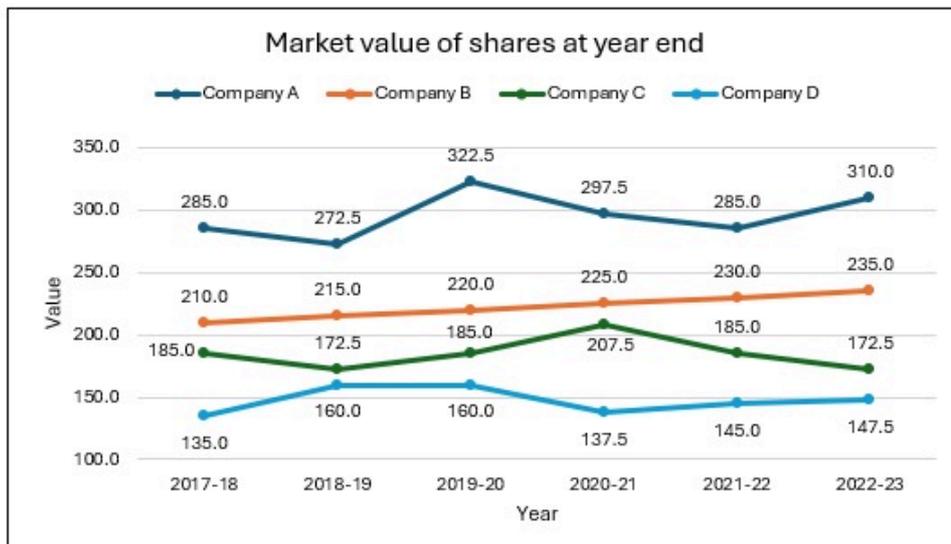
Q.25 The year in which the most substantial percentage increase in market value for any share is recorded is:

- Ans
- A. 2019-20
 - B. 2021-22
 - C. 2020-21
 - D. 2018-19

Question Type : MCQ

Comprehension:

The given chart illustrates the end-of-year market values of four shares from 2017-18 to 2022-23.



Based on this information, answer the questions that follow.

SubQuestion No : 26

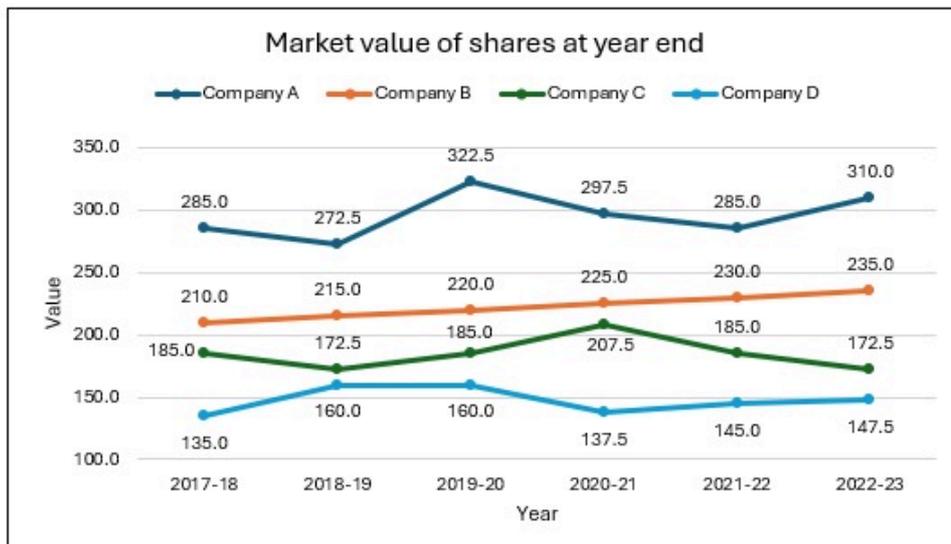
Q.26 Which company's share exhibits the most significant percentage increase in market value during any year throughout the entire period?

- Ans
- A. Company C
 - B. Company A
 - C. Company B
 - D. Company D

Question Type : MCQ

Comprehension:

The given chart illustrates the end-of-year market values of four shares from 2017-18 to 2022-23.



Based on this information, answer the questions that follow.

SubQuestion No : 27

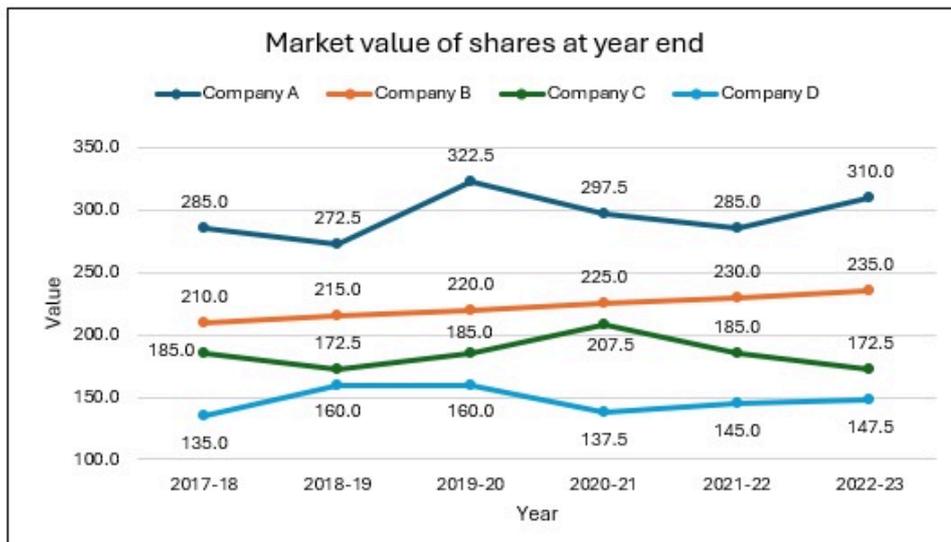
Q.27 If an individual decides to sell 1 share of Company C and 1 share of Company D to buy 1 share of Company A at the end of a year, the potential maximum gain for the individual resulting from changes in share values is:

- Ans** A. 45
 B. 60
 C. 35
 D. 10

Question Type : **MCQ**

Comprehension:

The given chart illustrates the end-of-year market values of four shares from 2017-18 to 2022-23.



Based on this information, answer the questions that follow.

SubQuestion No : 28

Q.28 The year in which the greatest absolute change in market value for any share occurs is:

- Ans
- A. 2022-23
 - B. 2019-20
 - C. 2020-21
 - D. 2021-22

Question Type : MCQ

Comprehension:

Study the given information answer the questions that follow.

There are two coaching institutions in a town, institution A and institution B, the total number of students in both institutions are 1350. The ratio of the students in institution A to that of institution B is 7 : 8. There are only three classes in each Institution, Class X, Class Y and Class Z. In institution A, 70% students are boys and the rest are girls, whereas in institution B the ratio of boys to girls is 11 : 7.

In institution A, $\frac{4}{7}$ of the total girls enrolled in Class Y, $\frac{5}{9}$ of the remaining enrolled in Class Z and rest in Class X. Out of the total boys in institution A, $42\frac{6}{7}\%$ enrolled in class X, $44\frac{4}{9}\%$ of the remaining in Class Y and the rest in Class Z.

In Institution B, $\frac{4}{11}$ of the total boys enrolled in class Y, and the number of boys enrolled in class Z is 5% more than the boys enrolled in class Y and rest in class X. one-fourth of the total girls are enrolled in class Z, and the number of girls enrolled in class X is 10% more than the girls enrolled in class Y.

SubQuestion No : 29

Q.29 What is the difference between the number of boys enrolled in Class Y in institution B and the number of girls enrolled in Class X in institution A?

- Ans
- A. 112
 - B. 136
 - C. 148
 - D. 124

Question Type : MCQ

Comprehension:

Study the given information answer the questions that follow.

There are two coaching institutions in a town, institution A and institution B, the total number of students in both institutions are 1350. The ratio of the students in institution A to that of institution B is 7 : 8. There are only three classes in each Institution, Class X, Class Y and Class Z. In institution A, 70% students are boys and the rest are girls, whereas in institution B the ratio of boys to girls is 11 : 7.

In institution A, $\frac{4}{7}$ of the total girls enrolled in Class Y, $\frac{5}{9}$ of the remaining enrolled in Class Z and rest in Class X. Out of the total boys in institution A, $42\frac{6}{7}\%$ enrolled in class X, $44\frac{4}{9}\%$ of the remaining in Class Y and the rest in Class Z.

In Institution B, $\frac{4}{11}$ of the total boys enrolled in class Y, and the number of boys enrolled in class Z is 5% more than the boys enrolled in class Y and rest in class X. one-fourth of the total girls are enrolled in class Z, and the number of girls enrolled in class X is 10% more than the girls enrolled in class Y.

SubQuestion No : 30

Q.30 Find the total number of students enrolled in class Y of both institutions.

- Ans
- A. 410
 - B. 440
 - C. 560
 - D. 480

Question Type : MCQ

Comprehension:

Study the given information answer the questions that follow.

There are two coaching institutions in a town, institution A and institution B, the total number of students in both institutions are 1350. The ratio of the students in institution A to that of institution B is 7 : 8. There are only three classes in each Institution, Class X, Class Y and Class Z. In institution A, 70% students are boys and the rest are girls, whereas in institution B the ratio of boys to girls is 11 : 7.

In institution A, $\frac{4}{7}$ of the total girls enrolled in Class Y, $\frac{5}{9}$ of the remaining enrolled in Class Z and rest in Class X. Out of the total boys in institution A, $42\frac{6}{7}\%$ enrolled in class X, $44\frac{4}{9}\%$ of the remaining in Class Y and the rest in Class Z.

In Institution B, $\frac{4}{11}$ of the total boys enrolled in class Y, and the number of boys enrolled in class Z is 5% more than the boys enrolled in class Y and rest in class X. one-fourth of the total girls are enrolled in class Z, and the number of girls enrolled in class X is 10% more than the girls enrolled in class Y.

SubQuestion No : 31

Q.31 The number of boys enrolled in class X in institution A is what percentage more than the number of girls enrolled in class Y in institution B?

- Ans
- A. 69%
 - B. 76%
 - C. 89%
 - D. 56%

Question Type : MCQ

Comprehension:

Study the given information answer the questions that follow.

There are two coaching institutions in a town, institution A and institution B, the total number of students in both institutions are 1350. The ratio of the students in institution A to that of institution B is 7 : 8. There are only three classes in each Institution, Class X, Class Y and Class Z. In institution A, 70% students are boys and the rest are girls, whereas in institution B the ratio of boys to girls is 11 : 7.

In institution A, $\frac{4}{7}$ of the total girls enrolled in Class Y, $\frac{5}{9}$ of the remaining enrolled in Class Z and rest in Class X. Out of the total boys in institution A, $42\frac{6}{7}\%$ enrolled in class X, $44\frac{4}{9}\%$ of the remaining in Class Y and the rest in Class Z.

In Institution B, $\frac{4}{11}$ of the total boys enrolled in class Y, and the number of boys enrolled in class Z is 5% more than the boys enrolled in class Y and rest in class X. one-fourth of the total girls are enrolled in class Z, and the number of girls enrolled in class X is 10% more than the girls enrolled in class Y.

SubQuestion No : 32

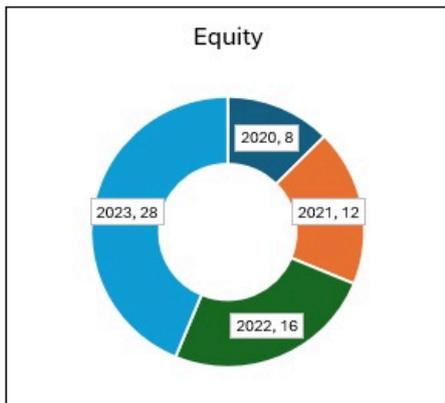
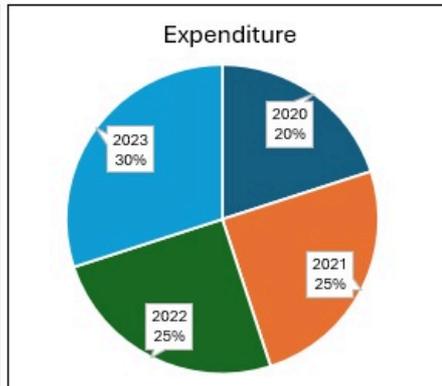
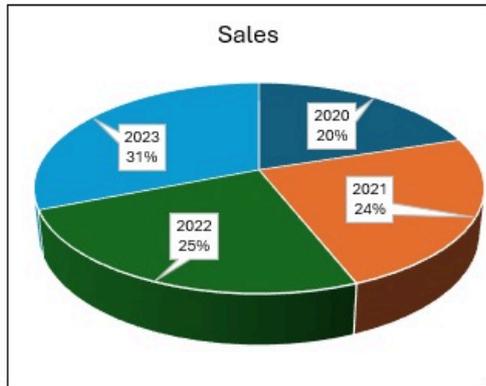
Q.32 The total number of boys enrolled in classes X and Y in institution A is what percentage of the total number of girls enrolled in classes Y and Z in institution B (rounded off to the integer)?

- Ans
- A. 182
 - B. 172
 - C. 187
 - D. 177

Question Type : MCQ

Comprehension:

Given here is information on total sales amounting to ₹400 million, total expenditure of ₹360 million and equity for the four consecutive years from 2020 to 2023. Profit is the positive difference between sales and expenditure.



Based on the given information, answer the questions that follow.

SubQuestion No : 33

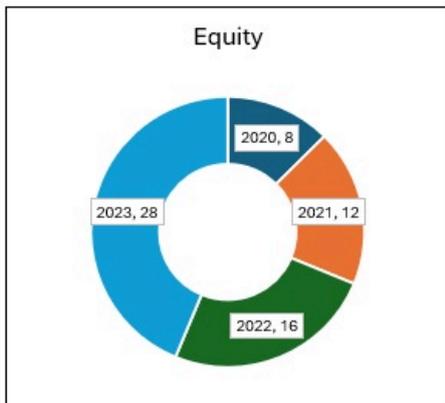
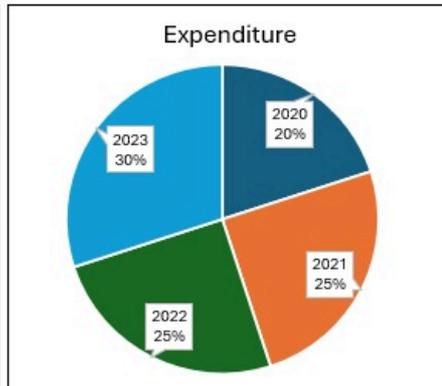
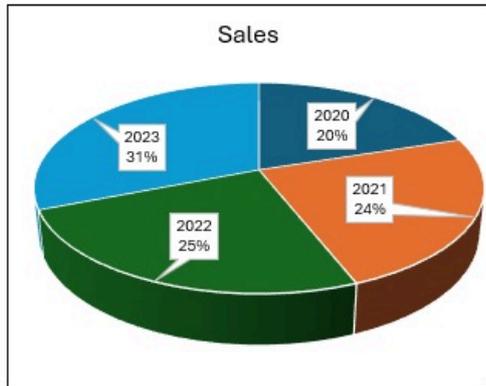
Q.33 The year in which the sales per rupee of expenditure hits its lowest point is:

- Ans
- A. 2021
 - B. 2020
 - C. 2023
 - D. 2022

Question Type : MCQ

Comprehension:

Given here is information on total sales amounting to ₹400 million, total expenditure of ₹360 million and equity for the four consecutive years from 2020 to 2023. Profit is the positive difference between sales and expenditure.



Based on the given information, answer the questions that follow.

SubQuestion No : 34

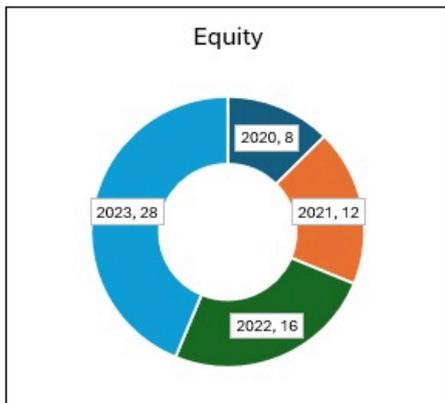
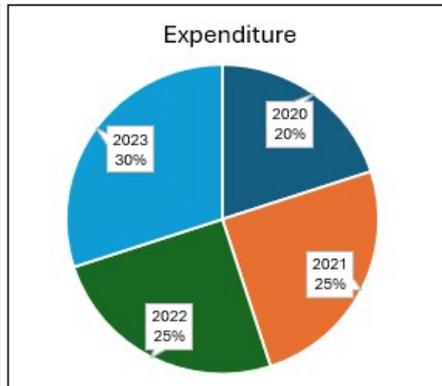
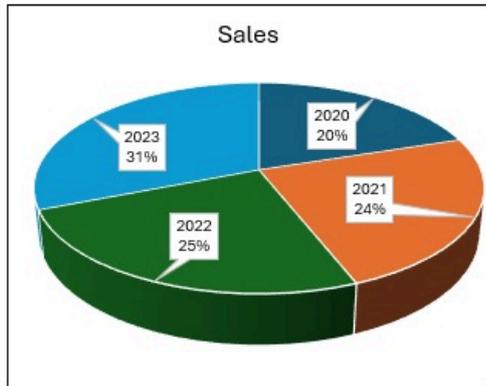
Q.34 The year with the highest simple annual growth rate in sales is:

- Ans
- A. 2021
 - B. 2022
 - C. 2023
 - D. 2020

Question Type : **MCQ**

Comprehension:

Given here is information on total sales amounting to ₹400 million, total expenditure of ₹360 million and equity for the four consecutive years from 2020 to 2023. Profit is the positive difference between sales and expenditure.



Based on the given information, answer the questions that follow.

SubQuestion No : 35

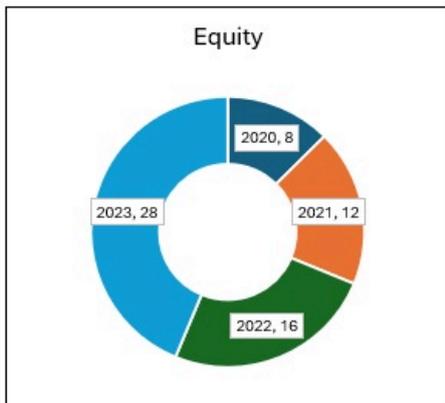
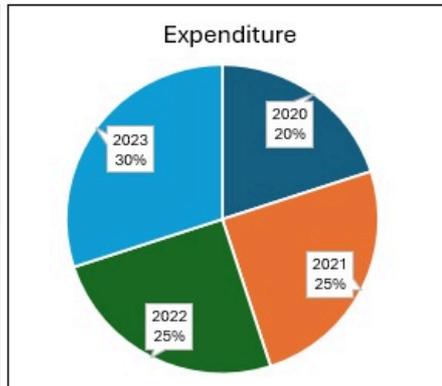
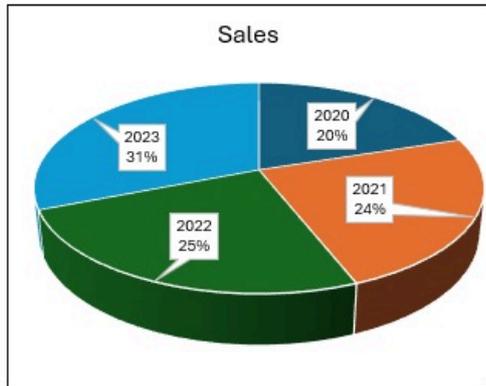
Q.35 The year in which the profit per rupee of equity reaches its peak is:

- Ans
- A. 2022
 - B. 2023
 - C. 2021
 - D. 2020

Question Type : MCQ

Comprehension:

Given here is information on total sales amounting to ₹400 million, total expenditure of ₹360 million and equity for the four consecutive years from 2020 to 2023. Profit is the positive difference between sales and expenditure.



Based on the given information, answer the questions that follow.

SubQuestion No : 36

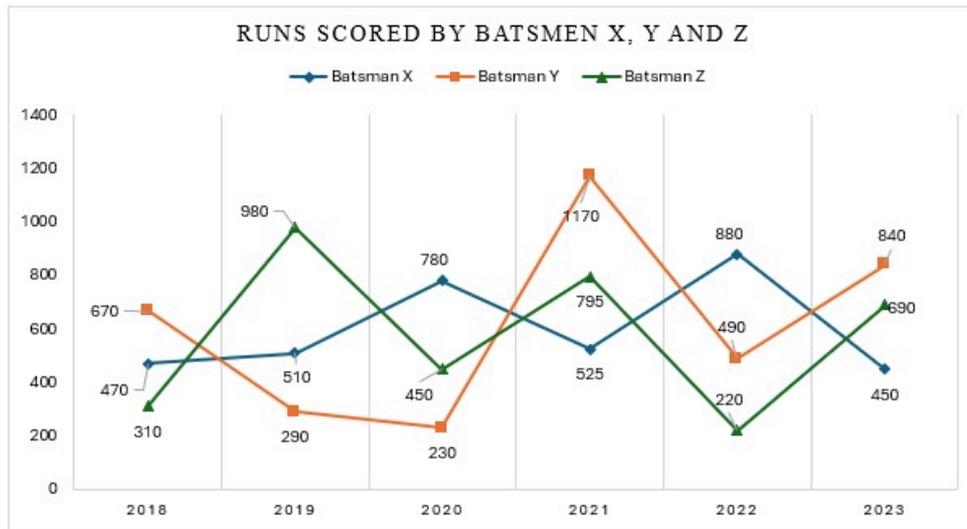
Q.36 The average annual profit for the given period is:

- Ans
- A. ₹14 million
 - B. ₹10 million
 - C. ₹12 million
 - D. ₹8 million

Question Type : MCQ

Comprehension:

The following graph shows the runs scored by three batsmen X, Y and Z in the given years.



SubQuestion No : 37

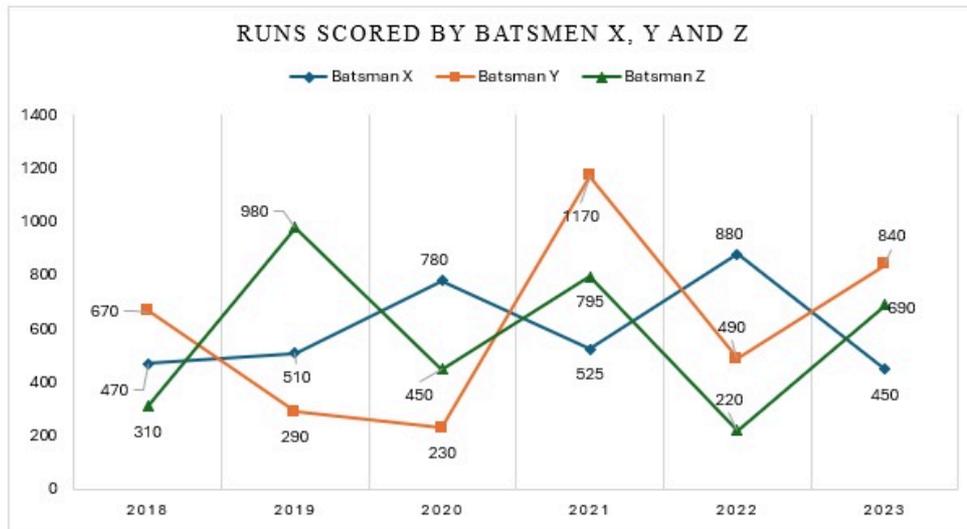
Q.37 In which of the following years were the lowest total runs scored by the given three batsmen?

- Ans
- A. 2023
 - B. 2020
 - C. 2018
 - D. 2019

Question Type : MCQ

Comprehension:

The following graph shows the runs scored by three batsmen X, Y and Z in the given years.



SubQuestion No : 38

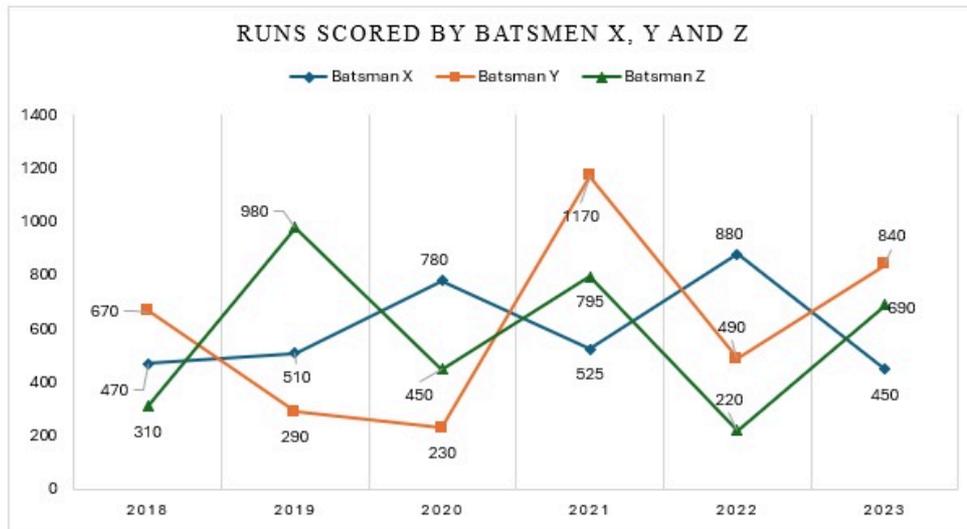
Q.38 What is the difference between the total runs scored by batsman X in the year 2020 to 2023 and batsman Z in 2018 to 2021?

- Ans
- A. 120
 - B. 100
 - C. 80
 - D. 150

Question Type : MCQ

Comprehension:

The following graph shows the runs scored by three batsmen X, Y and Z in the given years.



SubQuestion No : 39

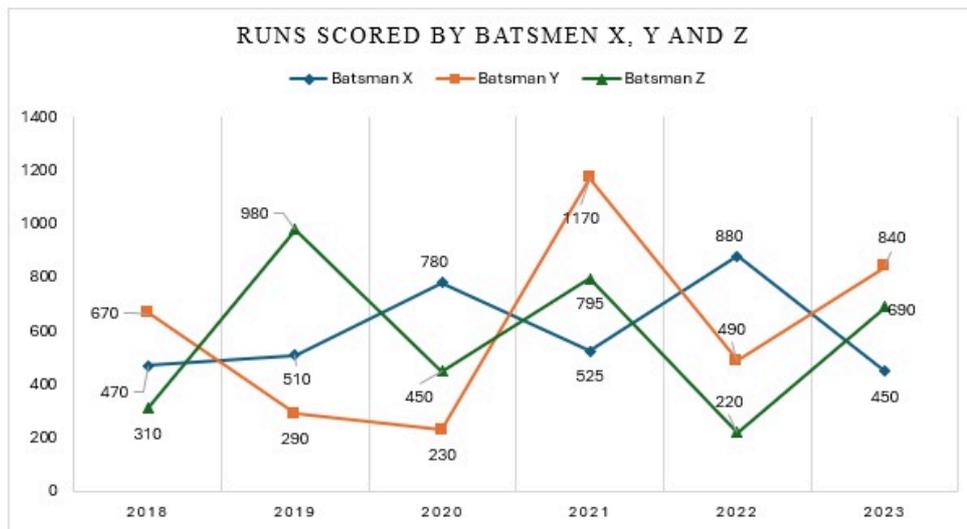
Q.39 What is the ratio of the total runs scored by batsman X and Z, in the given six years?

- Ans
- A. 547 : 643
 - B. 723 : 689
 - C. 397 : 523
 - D. 619 : 515

Question Type : MCQ

Comprehension:

The following graph shows the runs scored by three batsmen X, Y and Z in the given years.



SubQuestion No : 40

Q.40 In 2021, what was the average of total runs scored by the given three batsmen?

- Ans
- A. 830
 - B. 950
 - C. 720
 - D. 880

Question Type : MCQ

Section : Quantitative Ability

Q.1 What is the domain of definition of $f(x) = \frac{\sqrt{(15-x)(\log_{10} x - 1)}}{x - 24 \log_4 2}$ is:

- Ans
- A. a union of more than three open intervals
 - B. a union of two open intervals
 - C. a union of three open intervals
 - D. an open interval

Question Type : MCQ

Q.2 If in a GP, the sum of the first 18 terms is equal to the sum of first 22 terms and the sum of the first 19 terms is 65, then what will be the sum of first 4 terms? (Note: $i = \sqrt{-1}$)

- Ans
- A. $-65i$
 - B. $65i$
 - C. 0
 - D. -65

Question Type : MCQ

Q.3 A chord whose length is equal to the radius of a circle is drawn to divide the circle into two parts. If the radius of the circle is 42 cm, then what is the area of the smaller part (in cm^2)?

Ans

A. $21^2 \left(\frac{\pi}{3} - \frac{\sqrt{3}}{2} \right)$

B. $42^2 \left(\frac{\pi}{2} - \frac{\sqrt{3}}{4} \right)$

C. $21^2 \left(\frac{\pi}{6} - \frac{\sqrt{3}}{4} \right)$

D. $42^2 \left(\frac{\pi}{6} - \frac{\sqrt{3}}{4} \right)$

Question Type : **MCQ**

Q.4 Cars A and B start at the same time, from S and T towards T and S, respectively. After passing each other at point Y, they take 6 hours 40 minutes and 3 hours 45 minutes to reach T and S, respectively. If the speed of car A is 60 km/h, then how much time did Car A take to reach point Y?

Ans

A. 4 h 15 min

B. 5 h

C. 3 h

D. 5 h 30 min

Question Type : **MCQ**

Q.5 PQRS is a quadrilateral with side $PS = 7$ cm and $QR = 11$ cm. $\angle SPQ$ and $\angle QRS$ are both right angles. If E and F are points on PQ and RS, respectively, and QE is twice SF; $SF = n$ cm and n is an integer, then what is the value of n such that the area of the quadrilateral EQFS is 225 cm^2 ?

Ans

A. 25

B. 15

C. 18

D. 20

Question Type : **MCQ**

Q.6 Let $A = \{2, 4, 6, 8, 10, 12\}$, $B = \{3, 6, 9, 12\}$. How many subsets of B are not subsets of A?

Ans

A. 12

B. 11

C. 10

D. 13

Question Type : **MCQ**

Q.7 Which of the following inequalities is true for any positive real numbers a, b and c ?

I. $ab(a + b) + bc(b + c) + ca(c + a) \leq 6abc$

II. $\frac{a^2+b^2+c^2}{abc} \leq \frac{1}{a} + \frac{1}{b} + \frac{1}{c}$

- Ans**
- A. Only I
 - B. Only II
 - C. Neither I nor II
 - D. Both I and II

Question Type : MCQ

Q.8 Following are given conversion of numbers from one base system to another base system. which conversion is correct?

I. $(4523)_6 = (1059)_{10}$

II. $(4523)_6 = (1069)_{10}$

III. $(0.203)_5 = (0.424)_{10}$

IV. $(0.203)_5 = (0.406)_{10}$

- Ans**
- A. I and III
 - B. II and III
 - C. I and IV
 - D. II and IV

Question Type : MCQ

Q.9 For real numbers α and β , let $p(x) = x^2 - (\alpha + \beta)x + \alpha\beta$ and $q(x) = x^2 - (\alpha + \beta + 2)x + (\alpha + 1)(\beta + 1)$.

Which of the following statements is true?

- Ans**
- A. If $p(-88) = 0$, then $q(-91) = 0$
 - B. If $q(34) = 0$, then $p(35) = 0$
 - C. If $q(-97) = 0$, then $p(-98) = 0$
 - D. If $p(74) = 0$, then $q(73) = 0$

Question Type : MCQ

Q.10 The population of a town increased from 1,50,000 to 2,24,500 in 11 years. The average percentage increase of population per year is:

- Ans**
- A. 8.75%
 - B. 4.54%
 - C. 4.37%
 - D. 4.52%

Question Type : MCQ

Q.11 A group of men and women go to a restaurant. There are more men than women. If each person pays the bill according to what they ate, the average amount a man pays is Rs.1300 and the average amount a woman pays is Rs.1000. If, instead, the bill is shared equally among all the people, which of the following is a possible amount that each person pays?

- Ans
- A. 1320
 - B. 1135
 - C. 1160
 - D. 1100

Question Type : MCQ

Q.12 The longest chord of the circumcircle of the triangle made by x -axis, y -axis and $4x + 3y = 24$ is:

- Ans
- A. 5 units
 - B. 10 units
 - C. 2.5 units
 - D. 8 units

Question Type : MCQ

Q.13 Assume that $f: (-2, -1) \rightarrow (1, 2)$ is an onto function and for $i = 1, 2, 3, 4$, define

$g_1(x) = f(x) - 2, g_2(x) = f(-x), g_3(x) = -f(-x)$ and $g_4(x) = f(-x - 2)$. What is the correct arrangement of g_1, g_2, g_3, g_4 such that the graph of the k^{th} function lies in the k^{th} quadrant for $k = 1, 2, 3, 4$?

- Ans
- A. g_4, g_1, g_3, g_2
 - B. g_3, g_4, g_2, g_1
 - C. g_1, g_2, g_3, g_4
 - D. g_2, g_4, g_1, g_3

Question Type : MCQ

Q.14 If x and y are positive real numbers satisfying $x + y = 52$, then the minimum possible value of $91 \left(1 + \frac{1}{x}\right) \left(1 + \frac{1}{y}\right)$ is:

- Ans
- A. $\frac{5103}{52}$
 - B. $\frac{5041}{52}$
 - C. $\frac{3051}{52}$
 - D. $\frac{4105}{52}$

Question Type : MCQ

Q.15 If x and y are two positive integers, and m is the HCF of x and y such that $mxy = 1080$ and $3 < m < 12$, then how many possible ordered pairs of x and y exist?

- Ans A. 9
 B. 2
 C. 6
 D. 18

Question Type : MCQ

Q.16 The opposite sides of a regular hexagon are 18 cm apart. What is the length of each side of it ?

- Ans A. $7\sqrt{3}$
 B. $6\sqrt{3}$
 C. $5\sqrt{3}$
 D. $4\sqrt{3}$

Question Type : MCQ

Q.17 Which term of the following series is 17.25?

$-0.25, 0.25, 0.75, \dots$

- Ans A. 34th
 B. 36th
 C. 31st
 D. 32nd

Question Type : MCQ

Q.18 If A, B and C enter a partnership with shares in the ratio of $\frac{4}{3} : \frac{7}{2} : \frac{6}{5}$ after 4 months, A increases his share by 108.75%. If the total profit in the end of one year is ₹17,208 then B's share in the profit is:

- Ans A. ₹7,604
 B. ₹8,604
 C. ₹2,002
 D. ₹5,708

Question Type : MCQ

Q.19 The cost price of 25 articles is the same as the selling price of 'm' articles. If the profit is 25%, then what is the value of 'm'?

- Ans A. 18
 B. 16
 C. 25
 D. 20

Question Type : MCQ

Q.20 Kamal invested ₹5,500 at compound interest at the rate of R% per annum for 3 years. If the interest received by Kamal after 3 years is equal to 33.1% of the amount invested, then find the value of R.

- Ans
- A. 11.3
 - B. 7.2
 - C. 10
 - D. 15

Question Type : MCQ

Q.21 Four girls and three boys have to sit in a row of seven chairs. If the chairs at the ends are to be occupied by girls and at least two of the three boys are supposed to sit adjacent to each other, then in how many different ways can they occupy these chairs?

- Ans
- A. 432
 - B. 324
 - C. 423
 - D. 342

Question Type : MCQ

Q.22 There are three ropes of lengths 4 m 50 cm, 9 m 90 cm and 16 m 20 cm, respectively. Each rope can be used to exactly measure the side of a square ground. What is the maximum possible value of each side, in m, if area of the square ground is less than $10,00,000 \text{ m}^2$?

- Ans
- A. 891
 - B. 781
 - C. 791
 - D. 871

Question Type : MCQ

Q.23 In a club, a member is either an Indian or a non-Indian who is either a man or a woman. One-third of them are women, two-thirds of them are Indian and three-eighths of the non-Indians are women. What is the probability that a man picked at random is a non-Indian?

- Ans
- A. 0.2925
 - B. 0.2525
 - C. 0.2125
 - D. 0.3125

Question Type : MCQ

Q.24 A number $1 + 7^{47}$ is divisible by x . Which of the following is also divisible by x ?

- Ans
- A. $7^{188} + 1$
 - B. $7^{11} + 1$
 - C. $7^{141} + 1$
 - D. $7^{94} + 1$

Question Type : MCQ

Q.25 The sum of the first 24 terms of an AP is $\frac{12504}{25}$ and the sum of the next 24 terms is $\frac{17112}{25}$. What is the 3rd term?

Ans

A. $\frac{8}{25}$

B. $\frac{429}{25}$

C. $\frac{89}{5}$

D. $\frac{441}{25}$

Question Type : MCQ

Q.26 If $x = 7$, then what is the value of

$$\frac{x^{\frac{1}{2}} + x^{-\frac{1}{2}}}{1-x} + \frac{1-x^{-\frac{1}{2}}}{1-\sqrt{x}} = ?$$

Ans

A. $\frac{7}{6}$

B. $\frac{1}{3}$

C. $-\frac{\sqrt{7}}{3}$

D. 3

Question Type : MCQ

Q.27 The least perfect square that is divisible by each of 321, 48 and 66 is:

Ans

A. $16 \times 1089 \times 11449$

B. $1089 \times 9 \times 11449$

C. $9 \times 121 \times 10404$

D. $16 \times 1156 \times 11449$

Question Type : MCQ

Q.28 In a farmhouse, there are only horses and sheep. If 50% of the horses were sheep, then there would have been 50% more sheep than the number of horses. What percentage of all the animals are horses?

Ans

A. 60%

B. 40%

C. 50%

D. 80%

Question Type : MCQ

Q.29 Which of the following statements is/are true?

- I. $4^{10} + 6^{10}$ is divisible by 52.
- II. $7^{15} + 64^5$ is divisible by 11.
- III. $2^{20} - 49^{10}$ is divisible by 9.
- IV. $3^{15} - 8^5$ is divisible by 5

- Ans
- A. Only I and II
 - B. I, II, III and IV
 - C. Only I
 - D. Only I, II and III

Question Type : MCQ

Q.30 If $\frac{x^3}{z^2} < \frac{x^3+y^3+z^3}{x^2+y^2+z^2} < \frac{z^3}{x^3}$; x, y, z are positive real numbers, then which of the following options always ensure the given inequality to be true?

- Ans
- A. $y > z > x$
 - B. $z > x > y$
 - C. $x < z > y$
 - D. $x < y < z$

Question Type : MCQ

Q.31 If we draw the graph of $f(x) = \log_{10}(x + 1)$ on the domain of definition, which quadrants does it pass through?

- Ans
- A. First and third
 - B. First and fourth
 - C. First and second
 - D. Second and fourth

Question Type : MCQ

Q.32 Sony has a certain quantity of mixture in her bottle containing water and milk in the ratio 3 : 5, respectively. She takes out some quantity of that mixture and replaces it with an equal quantity of water. If the ratio of water to the milk in the new mixture is $x : y$, then select the **INCORRECT** statement from the following options.

- Ans
- A. $x > y$ if $\frac{1}{4}$ part of the mixture is replaced with water.
 - B. $x = y$ if $\frac{1}{5}$ part of the mixture is replaced with water.
 - C. $x < y$ if $\frac{1}{7}$ part of the mixture is replaced with water.
 - D. $x > y$ if $\frac{1}{6}$ part of the mixture is replaced with water.

Question Type : MCQ

Q.33 Denote the origin by O, (2, 1) by P and (-1, 2) by Q. If R and S are marked on the XY-plane such that OR = 30 units, OS = 40 units, P lies on OR and Q on OS, then what is the distance between R and S, in the given unit?

- Ans A. 50
 B. 70
 C. 57
 D. 64

Question Type : MCQ

Q.34 The area enclosed by $|x| + |y| = 2$ is:

- Ans A. 8 square units
 B. 4 square units
 C. 16 square units
 D. $\sqrt{8}$ square units

Question Type : MCQ

Q.35 Two friends, Rama and Jaya, appeared an examination. Rama secured 8 marks more than Jaya and her marks was 55% of the sum of their marks. The marks obtained by them are:

- Ans A. 38, 46
 B. 36, 44
 C. 41, 49
 D. 32, 40

Question Type : MCQ

Q.36 For $p, q, r \neq 0$, let $f(x) = x^3 - px^2 + qx - r$, $g(x) = x^3 - \frac{q}{r}x^2 + \frac{p}{r}x - \frac{1}{r}$. Which of the following statements is/are true?

- I. $f(\alpha) = 0 \Rightarrow g\left(\frac{1}{\alpha}\right) = 0$.
II. $f(\alpha) = 0 \Rightarrow g(1 + \alpha) = 0$.
III. $g(\alpha) = 0 \Rightarrow f\left(\frac{1}{\alpha}\right) = 0$.

- Ans A. Only I and III
 B. Only II and III
 C. Only I and II
 D. All of I, II and III

Question Type : MCQ

Q.37 Suppose $M = (1, 1), N = (-1, 3), S = (2, 7), T = (0, -4)$. If A and B, respectively, divide MN and ST in the ratio 2 : 3, what is the equation of line AB?

- Ans A. $25x - 20y - 41 = 0$
 B. $20x - 25y + 41 = 0$
 C. $25x - 20x + 41 = 0$
 D. $20x - 25y - 41 = 0$

Question Type : MCQ

Q.38 The ratio of an interior angle to its corresponding exterior angle of a regular polygon is $9 : 2$. If number of sides in the polygon is n , then select the **CORRECT** option.

- Ans
- A. $n^2 - 10^3$ is an odd natural number
 - B. n is an even natural number
 - C. $n^2 - 8^2$ is an odd natural number
 - D.

Question Type : MCQ

Q.39

- Ans
- A. 0
 - B. 1
 - C. 3
 - D.

Question Type : MCQ

Q.40

- Ans
- A.
 - B.
 - C.
 - D.

Question Type : MCQ

Section : Logical Ability

Q.1

- Ans
- A.
 - B.
 - C.
 - D.

Question Type : MCQ

Q.2

- Ans
- A.
 - B.
 - C.
 - D.

Question Type : MCQ

Q.3

Ans A.

B.

C.

D.

Question Type : **MCQ**

Q.4

Ans A.

B.

C.

D.

Question Type : **MCQ**

Q.5

Ans A.

B.

C.

D.

Question Type : **MCQ**

Q.6

Ans A.

B.

C.

D.

Question Type : **MCQ**

Q.7

Ans A.

B.

C.

D.

Question Type : **MCQ**

Q.8

Ans A.

B.

C.

D.

Question Type : **MCQ**

Q.9

Ans A.

B.

C.

D.

Question Type : MCQ

Q.10

Ans A.

B.

C.

D.

Question Type : MCQ

Q.11

Ans A.

B.

C.

D.

Question Type : MCQ

Q.12

Ans A.

B.

C.

D.

Question Type : MCQ

Q.13

Ans A.

B.

C.

D.

Question Type : MCQ

Q.14

Ans A.

B.

C.

D.

Question Type : MCQ

Q.15

- Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.16

- Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.17

- Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.18

- Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.19

- Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.20

- Ans A.
 B.
 C.
 D.

Question Type : **MCQ**

Q.21

- Ans A.
 B.
 C.
 D.

Question Type : **MCQ**

Q.22

- Ans A.
 B.
 C.
 D.

Question Type : **MCQ**

Q.23

Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.24

Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.25

Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.26

Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.27

Ans A.

B.

C.

D.

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Question Type : MCQ

Q.28

Ans A.

B.

C.

D.

Question Type : MCQ

Q.29

Ans A.

B.

C.

D.

Question Type : MCQ

Q.30

Ans A.

B.

C.

D.

Question Type : MCQ

Q.31

Ans A.

B.

C.

D.

Question Type : MCQ

Q.32

Ans A.

B.

C.

D.

Question Type : MCQ

Q.33

- Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.34

- Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.35

- Ans A.
 B.
 C.
 D.

Question Type : MCQ

Q.36

- Ans A.
 B.
 C.
 D.

Question Type : MCQ

Comprehension:

SubQuestion No : 37

Q.37

- Ans A.
 B.
 C.
 D.

Question Type : MCQ

Comprehension:

SubQuestion No : 38

Q.38

Ans A.

B.

C.

D.

Question Type : **MCQ**

Comprehension:

SubQuestion No : 39

Q.39

Ans A.

B.

C.

D.

Question Type : **MCQ**

Comprehension:

SubQuestion No : 40

Q.40

Ans  A.

 B.

 C.

 D.

Question Type : **MCQ**