

# SRCC GBO 2024

## Verbal Ability

### Instructions [1 - 5]

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.

1. Which of the following statement is TRUE?

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

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

- A Grit

- B** Tribulation
- C** Bummer
- D** Affliction

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

- A** Lack of access to nature can have negative effects on mental and physical health, including depression, anxiety, and various diseases.
- B** Research suggests that being in the presence of indoor plants can improve mental and physical health, including cognitive performance and stress reduction.
- C** Caring for houseplants can bring emotional benefits such as pride, social connection, satisfaction, fascination, and mental resilience.
- D** 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.

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

- A** reactive
- B** rational
- C** noncerebral
- D** nonanalytical

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

- A** 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.
- B** Indoor plants or houseplants have no impact on mental health and only serve aesthetic purposes.
- 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.

6. 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.

- A** to; for

- B for ; in
- C for ; into
- D by ; in

7. Select the most appropriate ANTONYM of the underlined word.

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

- A Vorse
- B Diminish
- C Amplify
- D Escalate

8. 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.

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

9. 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.

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

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

The crowd was \_\_\_\_\_ by his passionate speech.

- A carried off
- B carried on
- C carried away

D carried out

11. Select the most appropriate meaning of the underlined idiom.

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

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

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

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

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

13. Match the given words with their meanings.

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

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

14. 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**.

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

15. 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.

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

16. 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.

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

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

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

18. 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.

- A struggle , protect, uncover
- B struggle, question, command
- C continue, provide, uncover

D continue, consume, command

**19. 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

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

**20. 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 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.

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

**21. 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.

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

**22. 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.

- A benign, came from auction

- B prolific, were moved to, auction
- C differential had prevailed in, auction
- D detrimental, found their way to create

**23. 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.

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

**24. 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.

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

**25. 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.

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

**26. 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 om 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.

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

**27. Select the most appropriate option to fill in the blank.**

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

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

**28. Match the given words with their meanings.**

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

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

**29. 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.

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



**30. 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.

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

**31. 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.

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

**32. Select the most appropriate meaning of the underlined idiom.**

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

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

**33. 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.

A CA

B AC

C CB

D BC

**34. 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.

A ingrained, depicting, incapable, sacrosanct

B renowned, defaming, running, controversial

C ensued, demeaning, fleeing, sacrosanct

D renewed, deeming, ineligible, controversial

**35. Select the most appropriate meaning of the underlined idiom.**

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

A Go to bed

B Apply for vacation

C Go for a run

D Start a new project

**36. 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

A ACDB

- B CBDA
- C CDAB
- D DBAC

**37. 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 percent in the 2010s.

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

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

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

**39. Select the most appropriate meaning of the given idiom.**

Bite the bullet

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

**40. 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.**

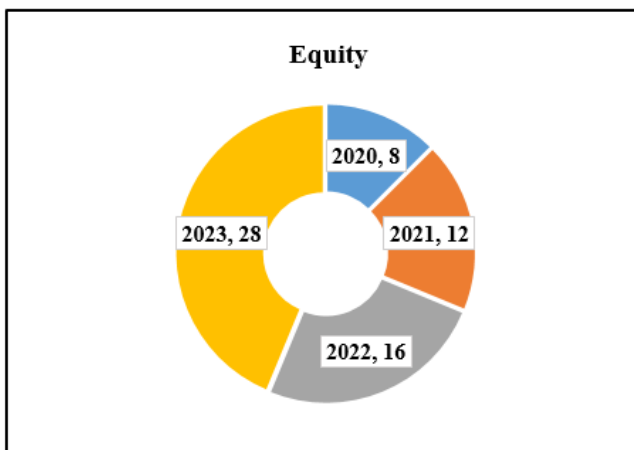
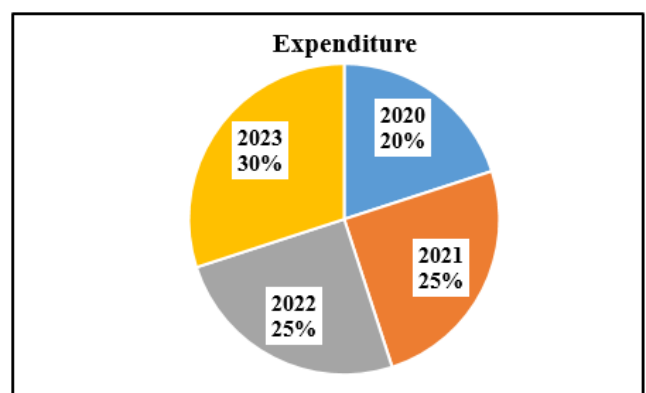
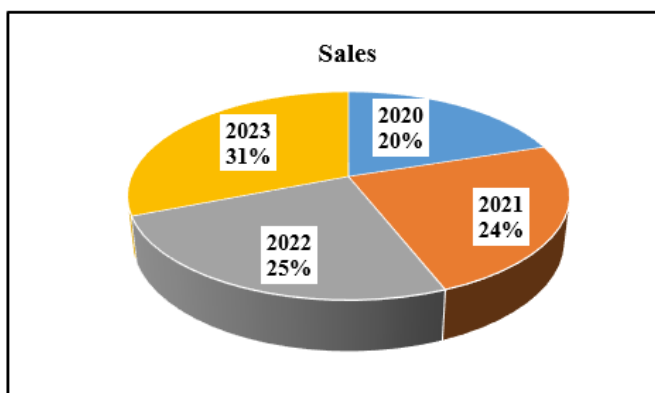
1. An esparto grass (*Lygeum spartum*) is found in the steppes of La Mancha and the southeast; the esparto products of Spain, however, come from an associated alfa grass (*Stipa tenacissima*).
2. Brown forest soils are restricted to humid Galicia and Cantabria
3. The mountains of the northern Meseta 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).

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

## Data Interpretation

### Instructions [41 - 44 ]

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.

**41.** The year with the highest simple annual growth rate in sales is:

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

42. The average annual profit for the given period is:

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

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

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

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

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

#### Instructions [45 - 48 ]

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 ₹3,750 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.

45. The total number of legs of all the cattle is:

- A 540

- B** 560
- C** 520
- D** 580

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

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

**47.** The number of goats the youngest son received was:

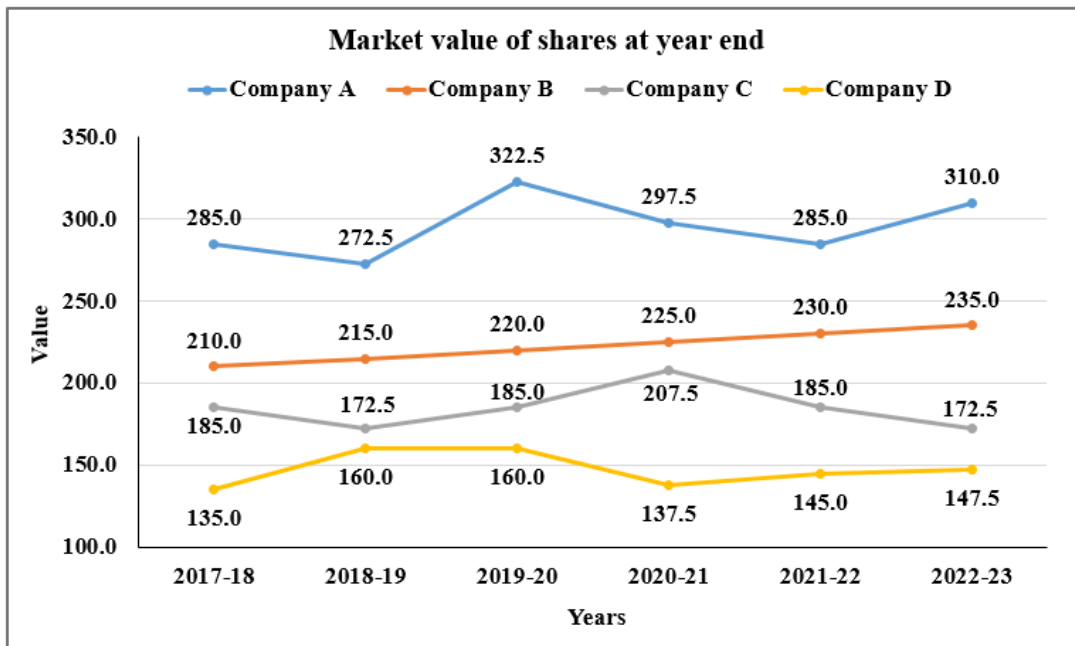
- A** 15
- B** 12
- C** 18
- D** 10

**48.** The number of sheep the eldest son received was:

- A** 35
- B** 30
- C** 20
- D** 25

**Instructions [49 - 52 ]**

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.

- 49.** 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:
- A 10
  - B 60
  - C 35
  - D 45
- 50.** The year in which the most substantial percentage increase in market value for any share is recorded is:
- A 2019-20
  - B 2018-19
  - C 2021-22
  - D 2020-21
- 51.** Which company's share exhibits the most significant percentage increase in market value during any year throughout the entire period?
- A company A
  - B company C
  - C company D
  - D company B
- 52.** The year in which the greatest absolute change in market value for any share occurs is:

- A 2021-22
- B 2020-21
- C 2019-20
- D 2022-13

**Instructions [53 - 56 ]**

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.

**53.** 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?

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

**54.** Find the total number of students enrolled in class Y of both institutions.

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

**55.** 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?

- A 112
- B 136
- C 148



D 124

56. 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)?

A 177

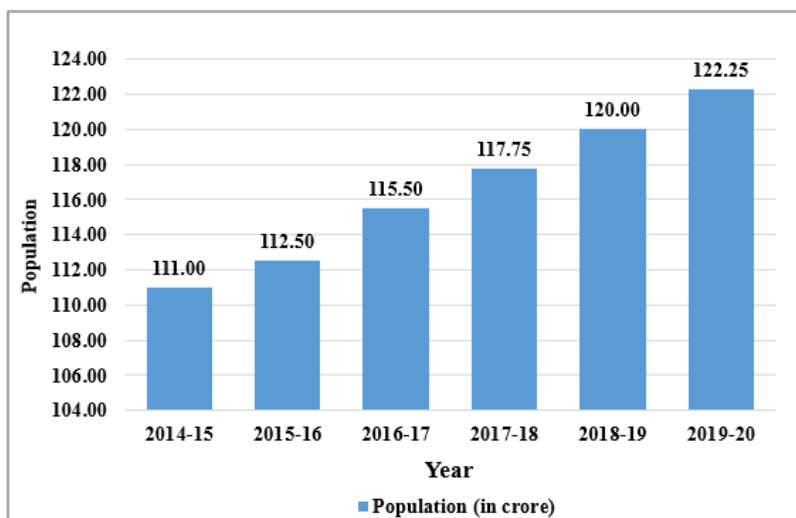
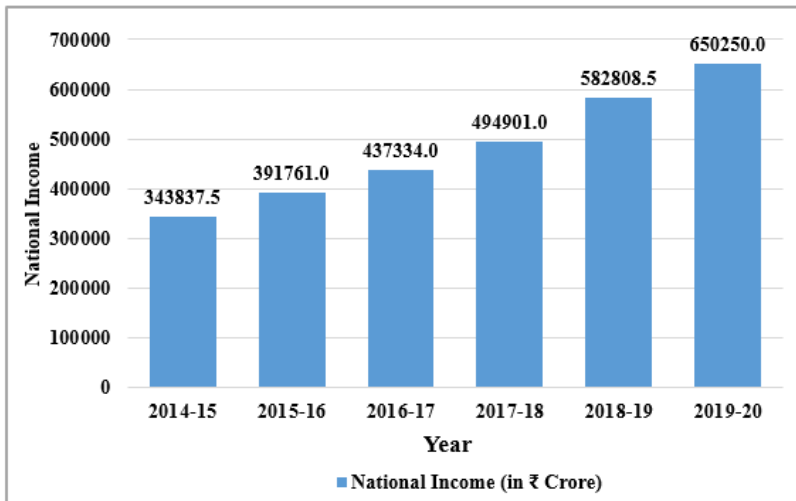
B 182

C 187

D 172

### Instructions [57 - 60]

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.

57. In which year is the increase in per capital income compared to the previous year the lowest?

A 2015-16

**B** 2019-20

**C** 2017-18

**D** 2016-17

**58.** In which year is the difference between the percentage increase in per capital income and the percentage increase in population compared to the previous year the highest?

**A** 2017-18

**B** 2015-16

**C** 2016-17

**D** 2018-19

**59.** In which year is the per capital income the highest?

**A** 2014-15

**B** 2019-20

**C** 2015-16

**D** 2017-18

**60.** Which of the following years witnessed the highest increase in per capital income compared to the previous year?

**A** 2016-17

**B** 2017-18

**C** 2015-16

**D** 2018-19

**Instructions [61 - 64 ]**

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

	2020	2021	2022	2023
<b>Graphing</b>	62.3	11.3	3.3	0.8
<b>Bolster</b>	0.0	142.5	120.0	112.5
<b>Brace</b>	0.0	105.0	67.5	90
<b>Slabs</b>	0.0	22.5	18.0	24
<b>Other material</b>	0.0	37.5	27.0	31.5
<b>Labour</b>	3.2	37.5	30.0	27
<b>Management</b>	11.3	22.5	22.5	21.0
<b>Exigencies</b>	1.5	22.5	6.3	7.5

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

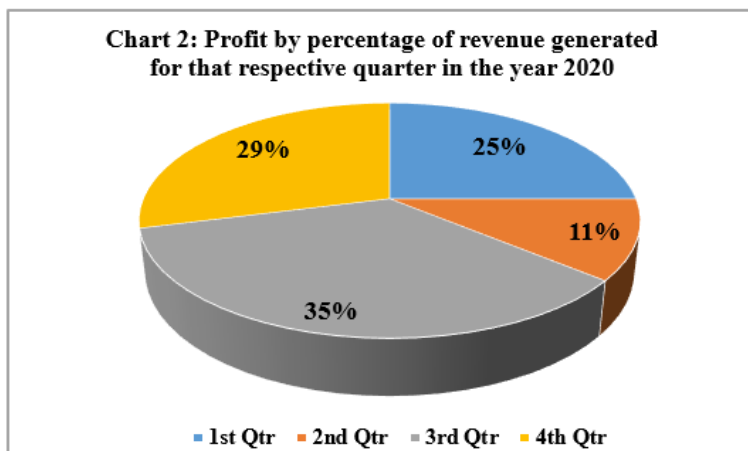
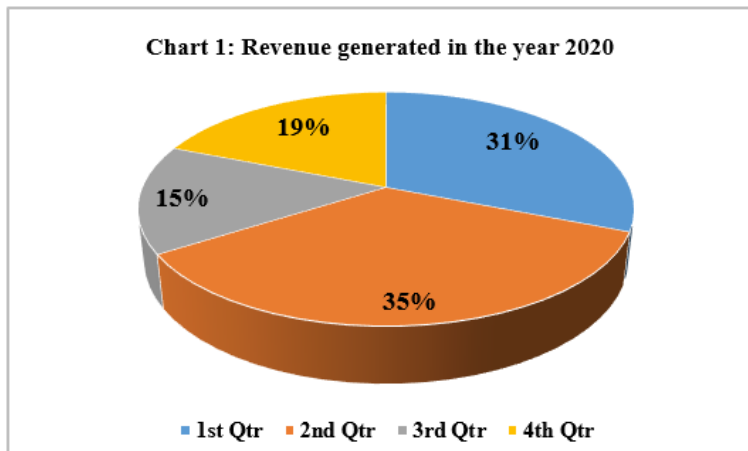
- 61.** After preparing the estimate, the provision for contingencies is deemed inadequate and is therefore doubled. By how much percentage does the total estimate increase?
- A 3.07%
- B 3.47%
- C 2.87%
- D 3.27%
- 62.** To ensure that the total expenditure remains within ₹1,050 lakh, an equal reduction in management expenditure is proposed for all years. What will be the percentage reduction for the year 2021?
- A 42.78%
- B 52.78%
- C 37.78%
- D 47.78%
- 63.** If the cost of materials increases by 5% each year from 202 onwards, by how much with the estimated cost (in lakh ₹) rise.
- A 21.53
- B 22.53
- C 23.53
- D 24.53
- 64.** 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?
- A 0.74

- B 0.68
- C 0.72
- D 0.70

**Instructions [65 - 68 ]**

**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.



**65.** In which of the following quarters is the profit the maximum?

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

**66.** What is the average of profit (in million rupees generated in the 1<sup>st</sup> and 4<sup>th</sup> quarters?

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

67. What is the profit (in rupees) of the company in the 2<sup>nd</sup> quarter of the year 2020?

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

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

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

#### Instructions [69 - 72]

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
Summit	75	85	75	80	95	75
Sandhya	85	110	120	130	130	95

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

- A 49 : 73
- B 53 : 78
- C 47 : 63

**D** 39 : 88

**70.** 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)?

**A** 73.1%

**B** 62.4%

**C** 78.8%

**D** 65.9%

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

**A** 523.25

**B** 493.75

**C** 463.25

**D** 553.75

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

**A** 130

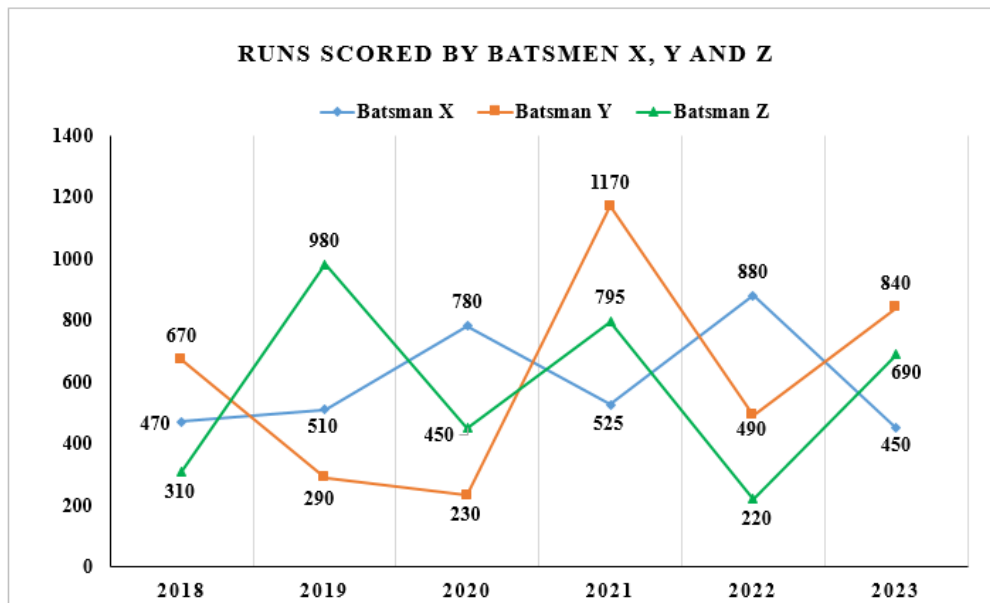
**B** 150

**C** 120

**D** 140

**Instructions [73 - 76 ]**

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

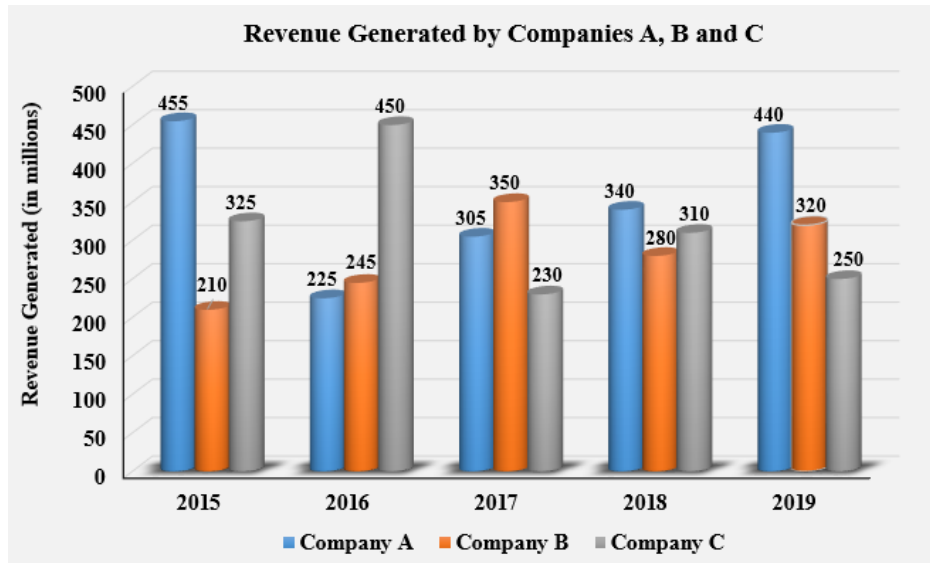


73. What is the ratio of the total runs scored by batsman X and Z in the given six years?
- A 723 : 689
- B 619 : 515
- C 547 : 643
- D 397 : 523
74. In which of the following years were the lowest total runs scored by the given three batsmen?
- A 2018
- B 2020
- C 2023
- D 2019
75. What is the difference between the total runs scored by batsman X in the year 2020 to 2023 and batsman Z in 2018
- A 12
- B 80
- C 150
- D 100
76. In 2021, what was the average of total runs scored by the given three batsmen?
- A 950

- B 720
- C 830
- D 880

**Instructions [77 - 80 ]**

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



77. What is the average revenue generated by companies A, B and C in year 2015?
- A 330
  - B 280
  - C 380
  - D 450
78. What is the ratio of total revenue generated by company A to company B in given 5 years?
- A 257 : 223
  - B 179 : 229
  - C 323 : 249
  - D 353 : 281
79. 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?
- A 65.22%
  - B 69.44%
  - C 79.66%



D 74.88%

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

A 350

B 280

C 390

D 410

## Quantitative Ability

81. 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?

A 50

B 64

C 57

D 70

82. 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.

A n is an even natural number

B  $n^2 - 10^2$  is an odd natural number

C  $n^2 - n$  is an odd natural number

D  $n^2 - 8^2$  is an odd natural number

83. 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.  $f(a) = 0 \Rightarrow g\left(\frac{1}{a}\right) = 0$

II.  $f(a) = 0 \Rightarrow g(1 + a) = 0$

III.  $f(a) = 0 \Rightarrow f\left(\frac{1}{a}\right) = 0$

A All of I, II and III

- B Only II and III
- C Only I and III
- D Only I and II

84. 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 .

- A  $x > y$  if  $\frac{1}{6}$  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  $\frac{1}{4}$  part of the mixture is replaced with water.

85. What is the value of  $\log_{10} 50 + \left( \frac{\log_{0.5} 5}{1 + \log_2 5} \right)$ ?

- A 0
- B 2
- C 3
- D 1

86. 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.

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

87. 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:

- A ₹8,604
- B ₹7,604
- C ₹5,708

D ₹2,002

88. 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'?

A 20

B 25

C 18

D 16

89. 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?

A 1320

B 1100

C 1160

D 1135

90. 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:  $i = \sqrt{-1}$ )

A -65

B 0

C -65i

D 65i

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

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

A  $-\frac{\sqrt{7}}{3}$

B  $\frac{7}{6}$

C 3

D  $\frac{1}{3}$

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

- A 12
- B 10
- C 11
- D 13

93. 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.  $(0.203)_5 = (0.406)_{10}$

- A I and IV
- B II and IV
- C II and III
- D I and III

94. 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  $225 \text{ cm}^2$ ?

- A 18
- B 20
- C 25
- D 15

95. 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.

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

96. Kamla can complete a piece of work in 24 days. Nirmala can complete this work in 18 days. Kamla started the work alone and worked for X days. After this Nirmala alone completed the remaining work in Y days, in this way the work is completed in 20 days. If X and Y are both positive integers, then select the correct option.

- A  $\left(\frac{4x}{y}\right) + 1$  is an even integer.

- B  $2X + Y = 22$
- C  $X - Y$  is an odd integer.
- D  $x^2 + 1$  is a multiple of 13

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

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

98. 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 3<sup>rd</sup> terms?

- A  $\frac{89}{5}$
- B  $\frac{8}{25}$
- C  $\frac{441}{25}$
- D  $\frac{429}{25}$

99. 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  $10,00,000 \text{ m}^2$ ?

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

100. 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?

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

D  $20x - 25y + 41 = 0$

101. 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:

A 41, 49

B 36, 44

C 32, 40

D 38, 46

102. For real numbers  $\alpha$  and  $\beta$ , 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?

A If  $p(74) = 0$ , then  $q(73) = 0$

B If  $p(-88) = 0$ , then  $q(-91) = 0$

C If  $q(-97) = 0$  then  $p(-98) = 0$

D If  $q(34) = 0$ , then  $p(35) = 0$

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

A  $6\sqrt{3}$

B  $4\sqrt{3}$

C  $7\sqrt{3}$

D  $5\sqrt{3}$

104. 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:

A 4.54%

B 8.75%

C 4.52%

D 4.37%

105. Which term of the following series is 17.25?

- 0.25, 0.25, 0.75, ...

A  $36^{th}$

B  $31^{st}$

C  $32^{nd}$

D  $34^{th}$

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

A  $16 \times 1156 \times 11449$

B  $16 \times 1089 \times 11449$

C  $1089 \times 9 \times 11449$

D  $9 \times 121 \times 10404$

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

A 16 square units

B  $\sqrt{8}$  square units

C 4 square units

D 8 square units

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

A  $\frac{4105}{52}$

B  $\frac{5041}{52}$

C  $\frac{5103}{52}$

D  $\frac{3051}{52}$

109. 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  $k = 1, 2, 3, 4$ ?

A  $g_1, g_2, g_3, g_4$

B  $g_2, g_4, g_1, g_3$

C  $g_3, g_4, g_2, g_1$

D  $g_4, g_1, g_3, g_2$

110. 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?

**A**  $y > z > x$

**B**  $x < y < z$

**C**  $x < z > y$

**D**  $z > x > y$

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

**A**  $7^{94} + 1$

**B**  $7^{141} + 1$

**C**  $7^{188} + 1$

**D**  $7^{11} + 1$

**112.** 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?

**A** 80%

**B** 50%

**C** 40%

**D** 60%

**113.** 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?

**A** 6

**B** 2

**C** 9

**D** 18

**114.** 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  $cm^2$ )?

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

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



115. If we draw the graph of  $f(x) = \log_{10}(x + 1)$  on the domain of definition, which quadrants does it pass through?
- A Second and fourth  
B First and second  
C First and fourth  
D First and third
116. 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?
- A 0.2525  
B 0.2125  
C 0.2925  
D 0.3125
117. The longest chord of the circumcircle of the triangle made by x-axis, y-axis and  $4x + 3y = 24$  is:
- A 2.5 units  
B 10 units  
C 5 units  
D 8 units
118. 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.  $\frac{a^2 + b^2 + c^2}{abc} \leq \frac{1}{a} + \frac{1}{b} + \frac{1}{c}$
- A Both I and II  
B Only I  
C Only II  
D Neither I nor II
119. 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?

- A 3 h
- B 5 h 30 min
- C 5 h
- D 4 h 15 min

**120.** 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?

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

## Reasoning and Logical Ability

**121.** Four statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

1. Some sheds are caves.
2. All sheds are nests.
3. Only a few nests are stables.
4. Some sheds are dens.

**Conclusions:**

- I. Some caves are nests.
- II. No shed is stable.

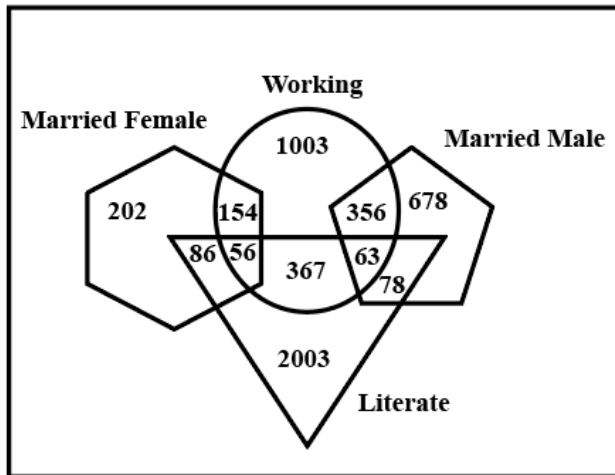
- A Only conclusion I follows
- B Either conclusion I or II follows
- C Neither conclusion I nor II follows
- D Only conclusion II follows

**122.** In a certain code language, 'SUN RISES IN THE EAST' is written as '6T 5E 4N 7S 5N' and 'HOUSE OF MOHAN IS TOWARDS WEST' is written as '6T 9S 4S 7N 4F 7E'. How will 'RAM GOES TO SCHOOL' be written in that language?

- A 8L 4O 6S 5M

- B 6T 5M 4F 8E
- C 6L 2O 4S 3M
- D 5M 6S 4O 8L

123. Study the following figure and answer the question given below.



Which of the following statements is true?

- I. There are 2354 unmarried literate persons.
- II. There are 1513 not literate working persons.

- A Only statement II
- B Only statement I
- C Both statements I and II
- D Neither statement I nor II

124. Identify the letter-cluster that does not belong to the following series.

BYO, DZQ, HBU, NEZ

- A DZQ
- B HBU
- C BYO
- D NEZ

125. Study the given number series and answer the question that follows.

278926534292897242592976479273

How many 2s are preceded by 9 and followed by an even number?

- A Six
- B Five

C Four

D Two

126. An accurate clock shows 9 a.m. Through how many degrees will the hour hand rotate when the clock shows 7 p.m.?

A  $210^\circ$

B  $300^\circ$

C  $120^\circ$

D  $180^\circ$

127. A + B means A is father of B.

A - B means A is daughter of B.

A \* B means A is son of B.

A/B means A is mother of B.

A & B means A is sister of B.

A # B means A is brother of B.

Which of the following relations shows that N and M are husband and wife, respectively?

A  $N + T \& W \# X - M$

B  $N + T \& W - X - M$

C  $N + T \& W \# X \& M$

D  $N * T \& W \# X - M$

128. In a class, there are 43 students. Kunal's rank is  $17^{th}$  in the class, who is ahead of Pinki by 6 ranks, Pinki being 7 ranks ahead of Balwan. If ranking system is from top to bottom, then what is Balwan's rank?

A 28

B 29

C 23

D 30

129. Select the number from the given options that can replace the question mark (?) in the following series.

2, 5, 10, ?, 26

A 15

B 19

C 17

D 16

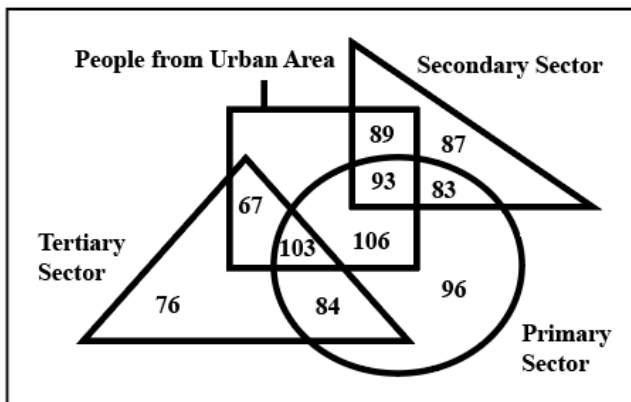
- 130.** How many 5s are there in the following number sequence immediately preceded by an odd number, but NOT immediately followed by an odd number?  
256435295653 16495624215549672 14755496425
- A Two  
B Five  
C Three  
D Four
- 131.** Select the option that is related to the third term in the same way as the second term is related to the first term.  
FHJK : UQSP :: ACDL : ?
- A OWXZ  
B OZWX  
C ZXWO  
D ZWXO
- 132.** Select the option that is related to the third number in the same way as the second number is related to the first number.  
99 : 120 :: 143 : ?
- A 168  
B 361  
C 289  
D 189
- 133.** Refer to the given letter, number and symbol series and answer the question that follows.  
(Left) H O L Ω Y & 4 Z 2 \* 3 M & 7 S W # 8 2 pH \* L (Right)  
If all the numbers are dropped from the series, then which of the following will be seventh from the right?
- A S  
B W  
C M  
D &

- 134.** Six teachers, Mukta, Indu, Poonam, Promila, Pinki, and Pihu, each teaching a different subject among Hindi, Computer Science, Sanskrit, Chemistry, English and Fine Arts (not necessarily in the same order), are seated around a table facing the centre. Pinki is opposite to the Sanskrit teacher. Poonam sits to the right of the Hindi teacher and is opposite to the person who is the Chemistry teacher. Pihu is opposite to the Computer Science teacher. Mukta is between the English teacher and the Computer Science teacher and is not the Chemistry teacher. Promila is opposite to the English teacher, who is to the immediate left of Pihu.

Who is the Fine Arts teacher?

- A Pinki
- B Pihu
- C Poonam
- D Indu

- 135.** Study the following figure and answer the question given below.



Which of the following statements is true?

- I. People engaged in tertiary sector from urban area is more than non-urban area.
- II. People engaged in primary sector from urban area is more than non-urban area.

- A Only statement II
- B Only statement I
- C Neither statement I nor II
- D Both statements I and II

- 136.** Select the term that will come next in the following series.

PRG, VLJ, BFM

- A HZQ
- B HAP
- C HAQ
- D HZP

**137. Select the option that is related to the third term in the same way as the second term is related to the first term.**

JXG : ZNW :: TRC : ?

- A SUH
- B JHS
- C JSH
- D SHU

**138. What was the day of the week on 30 Sep 2010?**

- A Monday
- B Sunday
- C Friday
- D Thursday

**139. Four letter-cluster pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.**

- A GIHJ : FLGK
- B ZYAX : YZZY
- C EHFG : DIEH
- D PVQU : OWPV

**140. Select the number from the given options that can replace the question mark (?) in the following series.**

4, 11, 26, ?, 120, 247

- A 84
- B 57
- C 42
- D 48

**141. Read the given statements and select the most appropriate option. The statements may have a cause-and-effect relationship or may have independent causes or be the effects of independent causes.**

- I. India has been losing its own traditional culture for 25 years.
- II. India is a multicultural country.

- A Statement II is the cause and statement I is its effect.
- B Both statements I and II are effects of independent causes .
- C Statement I is the cause and statement II is its effect.
- D Both statements I and II are effects of some common cause.

**142.** Introducing a man, Somu said, "He is the son of the only daughter of the father of my daughter-in-law."  
How is Somu related to that man?

- A Paternal Grandfather
- B Son's Son
- C Son-in-law
- D Father-in-law

**143.** Four letter-cluster pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- A SHAR : UJCT
- B BEYO : DGBQ
- C MIGH : OKIJ
- D PHOB : RJQD

**144.** In a certain code language, 'EGKMZBLNDF' is coded as 'FLAME38' and 'QSHJFHGISU' is coded as 'RIGHT124'.

How will 'DFEGFHGIHJ' be coded in that language?

- A EFGHI35
- B EGHIF70
- C EFIGH36
- D EIHFG24

**145.** Select the number from the given options that can replace the question mark (?) in the following series.  
4, 12, ?, 60, 124, 252

- A 36
- B 28
- C 24
- D 32



**146.** In a certain code language, 'ACQUITIED' is written as 'grvwrzxf' and 'WAMPIRE' is written as 'rivkdm'. How will 'TABLE' be written in that language?

- A OVYZG
- B OYVGZ
- C VOGYZ
- D VOYGZ

**147.** A man walks 10 m south. Then turning to his right, he walks 12 m. Then turning to his left, he walks 8 m. Again, he turns to his left and walks 5 m. How far is he from his initial position?

- A 363 m
- B 383 m
- C 353 m
- D 373 m

**148.** Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying, etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

80 : 99

- A 25 : 122
- B 79 : 90
- C 110 : 169
- D 120 : 143

**149.** Select the term that will come next in the following series.  
JWM, MYR, PAW, SCB

- A VHF
- B UDF
- C VFH
- D VEG

- 150.** The mark of Kiran is greater than or equal to the marks of Hina. Hina and Tina got equal marks. The mark of Tina is greater than Urvi, but Urvi's marks are less than or equal to the marks of Ira. Based on the above information, which of the following statements is/are definitely true?
- I. Urvi got less marks than that of Kiran.  
 II. Ira's marks are less than or equal to the marks of Tina.
- A** Neither statement I nor II  
**B** Both statements I and II  
**C** Only statement I  
**D** Only statement II
- 151.** Refer to the given letter, number and symbol string and answer the question that follows.
- (Left) \* 5 U £ ± 2 W @ 3 K 9 ÷ # 6 M & 4 A α 5 G δ 7 B % R Ø (Right)
- If the sequence of the middle nine elements in the given string is reversed, then which of the following will be seventh to the right of the twenty-first element from the right end?
- A** M  
**B** 6  
**C** #  
**D** 9
- 152.** Select the option that is related to the third number in the same way as the second number is related to the first number.
- 08 : 62 :: 15 : ?
- A** 223  
**B** 115  
**C** 88  
**D** 126
- 153.** Four statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
- Statements:**
1. Some hill is land.
  2. All land is plateau.
  3. Only a few land is peak.
  4. Some peak is valley.
- Conclusions:**
- I. Some peak is hill.
  - II. No hill is peak.

- A Only conclusion I follows
- B Only conclusion II follows
- C Either conclusion I or II follows
- D Neither conclusion I nor II follows

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

**Statement:**

Should all members of parliament be highly qualified in India?

**Arguments:**

- I. A highly qualified person is honest.
- II. They will understand the real problems of people.
- III. No, the number of highly qualified people is very low in India. Therefore, this statement is against Indian democracy.

- A I and II follow
- B Only II follows
- C Only I follows
- D Only III follows

**155. Read the given statement followed by two courses of action numbered I and II. You have to assume everything in the statement to be true and based on the information given in the statement, decide which of the suggested courses of action logically follow(s) from the statement.**

**Statement:**

The price of onions is on the rise in India due to the lower production of onions.

**Courses of Action:**

- I. The government should give a minimum support price for onions to motivate farmers to crop them.
- II. The government should mandate onion cropping for all farmers.

- A Both I and II follow
- B Neither I nor II follows
- C Only I follows
- D Only II follows

**156. Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R).**

(A) Enrolment of girls in higher education is rising in India.

(R) The government is giving various scholarships to girls in higher education.

- A (A) is false, but (R) is true.
- B Both (A) and (R) are true and (R) is the correct explanation of (A).

**C** (A) is true, but (R) is false.

**D** Both (A) and (R) are true and (R) is not the correct explanation of (A).

**Instructions [157 - 158]**

Read the given paragraph carefully and answer the questions that follow.

Seven friends Zora, Yaana, Veena, Umang, Tina, Aavya and Christy are sitting around a circular table facing outside from the centre (not necessarily in the same order). Tina is second to the left of Aavya. Zora is seating to the right of Umang. Christy is seated second to the left of Tina. Tina is seating between Veena and Yaana. Aavya is seating to the immediate right of Veena.

**157.** Who is sitting to the fourth right of Yaana?

**A** Umang

**B** Veena

**C** Aavya

**D** Tina

**158.** Who is sitting to the fourth left of Zora?

**A** Veena

**B** Tina

**C** Yaana

**D** Christy

**Instructions [159 - 160]**

Read the given paragraph carefully and answer the questions that follow.

A seven-floor building numbered from 1 to 7 (top to ground floor), has seven offices with different office bearers named Puneet, Raksha, Mohit, Yella, Gagan, Omi and Bhanu (not necessarily in same order). Each floor has only one office as follows.

- Yella's office is just below Raksha's office.
- There is exactly one office between Gagan's office and Omi's office.
- Puneet's office is just above Raksha's office.
- Neither Puneet nor Bhanu is in the topmost office.
- Omi is in the office on the lowest floor.

**159.** Select the odd one from the following.

**A** Bhanu

**B** Mohit

**C** Yella

**D** Puneet

**160.** On which floor is Bhanu's office?

**A** 6

**B** 4

**C** 2

**D** 5

# Answers

## Verbal Ability

<b>1.B</b>	<b>2.A</b>	<b>3.D</b>	<b>4.B</b>	<b>5.A</b>	<b>6.B</b>	<b>7.B</b>	<b>8.C</b>
<b>9.A</b>	<b>10.C</b>	<b>11.A</b>	<b>12.C</b>	<b>13.D</b>	<b>14.C</b>	<b>15.D</b>	<b>16.C</b>
<b>17.D</b>	<b>18.C</b>	<b>19.A</b>	<b>20.A</b>	<b>21.C</b>	<b>22.D</b>	<b>23.A</b>	<b>24.D</b>
<b>25.D</b>	<b>26.B</b>	<b>27.B</b>	<b>28.A</b>	<b>29.A</b>	<b>30.B</b>	<b>31.D</b>	<b>32.A</b>
<b>33.B</b>	<b>34.D</b>	<b>35.A</b>	<b>36.C</b>	<b>37.B</b>	<b>38.B</b>	<b>39.A</b>	<b>40.D</b>

## Data Interpretation

<b>41.D</b>	<b>42.D</b>	<b>43.A</b>	<b>44.A</b>	<b>45.B</b>	<b>46.B</b>	<b>47.D</b>	<b>48.D</b>
<b>49.B</b>	<b>50.B</b>	<b>51.C</b>	<b>52.C</b>	<b>53.B</b>	<b>54.C</b>	<b>55.D</b>	<b>56.A</b>
<b>57.D</b>	<b>58.D</b>	<b>59.B</b>	<b>60.D</b>	<b>61.B</b>	<b>62.A</b>	<b>63.D</b>	<b>64.B</b>
<b>65.B</b>	<b>66.A</b>	<b>67.B</b>	<b>68.B</b>	<b>69.C</b>	<b>70.C</b>	<b>71.D</b>	<b>72.D</b>
<b>73.A</b>	<b>74.A</b>	<b>75.D</b>	<b>76.C</b>	<b>77.A</b>	<b>78.D</b>	<b>79.C</b>	<b>80.C</b>

## Quantitative Ability

<b>81.A</b>	<b>82.D</b>	<b>83.C</b>	<b>84.A</b>	<b>85.D</b>	<b>86.B</b>	<b>87.A</b>	<b>88.A</b>
<b>89.C</b>	<b>90.B</b>	<b>91.A</b>	<b>92.A</b>	<b>93.D</b>	<b>94.A</b>	<b>95.A</b>	<b>96.D</b>
<b>97.C</b>	<b>98.A</b>	<b>99.B</b>	<b>100.D</b>	<b>101.B</b>	<b>102.C</b>	<b>103.A</b>	<b>104.C</b>
<b>105.A</b>	<b>106.B</b>	<b>107.D</b>	<b>108.C</b>	<b>109.B</b>	<b>110.B</b>	<b>111.B</b>	<b>112.A</b>
<b>113.B</b>	<b>114.C</b>	<b>115.D</b>	<b>116.D</b>	<b>117.B</b>	<b>118.D</b>	<b>119.C</b>	<b>120.D</b>

## Reasoning and Logical Ability

<b>121.A</b>	<b>122.A</b>	<b>123.A</b>	<b>124.D</b>	<b>125.D</b>	<b>126.B</b>	<b>127.A</b>	<b>128.D</b>
<b>129.C</b>	<b>130.B</b>	<b>131.D</b>	<b>132.A</b>	<b>133.A</b>	<b>134.D</b>	<b>135.D</b>	<b>136.D</b>
<b>137.B</b>	<b>138.D</b>	<b>139.A</b>	<b>140.B</b>	<b>141.A</b>	<b>142.A</b>	<b>143.B</b>	<b>144.A</b>
<b>145.B</b>	<b>146.B</b>	<b>147.D</b>	<b>148.D</b>	<b>149.D</b>	<b>150.C</b>	<b>151.B</b>	<b>152.A</b>
<b>153.C</b>	<b>154.B</b>	<b>155.C</b>	<b>156.B</b>	<b>157.A</b>	<b>158.B</b>	<b>159.B</b>	<b>160.A</b>