

MAT 2023 Memory Based Question Paper PDF

SECTION-A : English Language

DIRECTIONS (Qs. 1-5): : Read the following passage carefully and answer the questions that follow.

Switching between tasks-commonly referred to as context switching-might feel productive, but it's actually quite the opposite. Whether it's answering an email in the middle of writing a report or checking a notification while editing a document, these constant shifts come with a hidden cost. Each time we move from one activity to another, our brain requires time to reorient itself. This transition period isn't instant; studies suggest it takes over 25 minutes on average to regain full focus after an interruption. Yet, we tend to switch tasks roughly every 75 seconds, making it difficult to get meaningful work done.

The mental toll of this habit doesn't just affect individuals; it has global consequences. Researchers estimate that the productivity loss caused by context switching costs the world economy more than \$450 billion a year. The problem lies in how our minds operate-task switching drains cognitive energy, slows us down, and leads to more mistakes.

To counteract this, the article promotes a shift toward nonotasking-the practice of focusing on one task at a time. Unlike multitasking, which divides our attention and creates what the author calls a "transaction cost," monotasking allows us to work with deeper concentration. But to truly break the cycle, we must also train ourselves to reduce distractions. The way we instantly react to every ping or notification is a result of conditioned behaviour, much like Pavlov's dogs salivating at the sound of a bell. By becoming aware of these triggers and taking steps to limit them-such as turning off notifications or planning tasks in advance-we can reclaim our attention.

Ultimately, structuring our days more intentionally and resisting the urge to constantly shift focus may be the key to regaining both our productivity and peace of mind.

1. What can be inferred about the author's opinion on task interruptions?
 - (a) They provide helpful breaks in a busy schedule
 - (b) They are manageable with strong multitasking skills
 - (c) They severely hinder one's ability to work effectively
 - (d) They help improve adaptability in fast-paced environments
2. In the passage, the phrase "transaction cost" refers to:
 - (a) A fee charged for business transactions
 - (b) Time lost during financial exchanges
 - (c) Mental fatigue and time lost when switching tasks
 - (d) Hidden charges for switching apps or tools
3. Why does the author mention Pavlov's dogs?
 - (a) To illustrate how easily humans can be trained to ignore distractions
 - (b) To show that people, like animals, can develop conditioned responses

- (c) To support the idea that multitasking is an instinctive behaviour
- (d) To explain the science behind focused task management

Which theme is central to the passage?

- (a) The rise of artificial intelligence in workplace productivity
 - (b) The dangers of relying on digital tools for daily work
 - (c) The benefits of planned, focused work over scattered multitasking
 - (d) The need to completely eliminate technology to focus
5. According to the passage, how does scheduling tasks in advance help reduce context switching?
 - (a) It ensures all tasks are completed faster
 - (b) It creates a sense of urgency to multitask
 - (c) It encourages users to check notifications less frequently
 - (d) It brings structure that discourages frequent task changes

DIRECTIONS (Qs. 6-10): : Read the following passage carefully and answer the questions that follow.

If you often feel groggy after taking a nap, it may be a sign that you're not napping properly. Afternoon tiredness is a natural part of our daily rhythm, yet many of us deal with it by turning to caffeine rather than rest. Instead of masking this fatigue, it's healthier to respond to the body's need for sleep. Although napping has become more accepted in recent years, it is still seen by many as a lazy habit rather than a productive one. However, when done thoughtfully-by choosing the right time and duration-naps can be a powerful way to refresh the mind and improve performance.

Humans are biologically wired to feel sleepy twice a day: during the early morning hours and again in the early afternoon. Even if you skip lunch, your body will likely still feel sluggish between 1:00 and 3:00 p.m. This biological need for rest is something many cultures recognize, such as the traditional siesta in Mediterranean regions.

The key to effective napping lies in the timing and length. Short naps of about 10-20 minutes can leave you feeling alert and refreshed without entering deep sleep. On the other hand, a full 90-minute nap allows you to complete a full sleep cycle and wake up without the heavy grogginess known as sleep inertia. Some people also benefit from caffeine naps-drinking coffee before a short nap so the effects of caffeine kick in as they wake up.

To make napping truly effective, it's important to create a quiet, cool environment and stick to a regular routine. Most importantly, avoid naps that last between 45-60 minutes, as they often leave you feeling more tired than before. When done correctly, napping can help restore energy and improve afternoon productivity.

6. What can be inferred about the traditional attitude toward napping in modern work cultures?
 - (a) Napping is widely embraced as a productive tool.
 - (b) Napping is increasingly seen as outdated and unhelpful.
 - (c) Napping is still misunderstood despite its potential benefits.
 - (d) Most people are unaware of the biological need for naps.
7. What does the phrase "masking this fatigue" most likely mean in the context of the passage?
 - (a) Hiding tiredness with temporary solutions
 - (b) Completely removing sleepiness
 - (c) Making fatigue look appealing
 - (d) Shifting fatigue to a different time
8. Why does the author refer to the siesta tradition in Mediterranean countries?
 - (a) To promote international napping habits
 - (b) To mock non-Western sleep routines
 - (c) To validate the biological basis of midday rest
 - (d) To show how naps disrupt cultural productivity
9. If a person frequently wakes up from naps feeling worse than before, what might the passage suggest they reconsider?
 - (a) Their use of caffeine after the nap
 - (b) The timing and length of their nap
 - (c) The temperature of the room they sleep in
 - (d) The number of meals they eat in a day
10. In the context of the passage, what does "sleep inertia" most likely refer to?
 - (a) The sluggish feeling after waking from deep sleep
 - (b) The energy boost experienced after a nap
 - (c) The inability to fall asleep
 - (d) The natural body rhythm that triggers naps
11. The passage suggests that our sense of time being "wasted" most likely stems from _____.
 - (a) Negative attention in the moment
 - (b) Too many obligations
 - (c) A lack of time management
 - (d) The rapid passage of time
12. In the context of the passage, what does the word 'currency' most closely imply?
 - (a) Exchange
 - (b) Resource
 - (c) Limitation
 - (d) Value
13. What central idea does the author challenge about conventional views on time?
 - (a) That time is short
 - (b) That time is linear
 - (c) That time can be controlled or spent
 - (d) That time should be scheduled
14. Which of the following best captures the author's view of the mind's role in shaping time?
 - (a) The mind distorts time through distraction.
 - (b) The mind controls how much time we need.
 - (c) The mind can erase the effect of time.
 - (d) The mind determines how we feel about time.
15. According to the passage, why someone describes a workday as "horrible"?
 - (a) Because the work was tiring
 - (b) Because the time passed too slowly
 - (c) Because of how they felt and focused during that time
 - (d) Because they didn't finish their tasks

DIRECTIONS (Qs. 11-15): Read the following passage carefully and answer the questions that follow.

Time is often seen as something we manage, lose, or even waste, depending on the moment. In just one day, a person might describe time in several conflicting ways - as scarce, abundant, or squandered - showing how complex and subjective our relationship with it really is. A while ago, I reflected on the idea that time is the only true currency we possess - a belief I continue to hold. But there's more to it. Time continues, regardless of what we do or think. Contrary to how we talk about it, we don't really control time - we can't hoard it, slow it down, or genuinely waste it. What shapes our sense of time is where our attention lies. Every experience filters through our thoughts, so our concept of time is built around what we focus on in any given moment. This is why we may say we had a "great time" on vacation - not because of time itself, but because of how we felt. Similarly, we call a workday "terrible" not because the time was inherently bad, but because of what we focused on during it. We can't always direct our focus - responsibilities often dictate where our attention must go. But during brief moments of pause, like waiting in a queue, we can choose what to dwell on.

By choosing thoughts that are uplifting or joyful, we shape our experience of that moment differently. Once we shift from seeing time as something to spend or waste, and instead see it as what we mentally engage within the present, time becomes less of a burden and more of a reflection of our attention.

DIRECTIONS (Qs. 16-18): Arrange these five sentences in the proper order to form a meaningful paragraph.

16. K. Financial decisions are rarely about spreadsheets and more often about emotions, habits, and biases.
 - L. For instance, people tend to overvalue immediate rewards over long-term benefits, leading to poor saving habits.
 - M. This emotional framework explains why two people with the same income can have vastly different financial outcomes.
 - N. Understanding the psychology behind money is essential for building lasting wealth.
 - O. Behavioural economists have identified dozens of cognitive biases that affect how we spend, save, and invest.
- (a) N K O L M (b) K L O M N
(c) K O L M N (d) N O K L M
17. P. Ironically, the more connected we are virtually, the more isolated we seem in real life.
 - Q. While social media was designed to bridge gaps, it often deepens emotional distance.
 - R. It is not uncommon to see people scrolling endlessly, ignoring those physically present.
 - S. The digital age has created an illusion of companionship without the demands of friendship.
- (a) Q R S P
(b) S Q P R
(c) S Q R P
(d) Q S P R

18. P. The most effective leaders aren't those who command from above, but those who listen and adapt.
 Q. This shift challenges the outdated idea that authority comes from hierarchy alone.
 R. Modern leadership increasingly values empathy, flexibility, and collaboration.
 S. It recognizes that trust and influence are earned, not imposed.
 T. As workplaces evolve, the definition of leadership is undergoing a transformation.
- (a) TRPSQ (b) RTPQS
 (c) TRQPS (d) TPSQR

DIRECTIONS (Qs. 19-21): In the question given below, out of the four alternatives, choose the one which is similar in meaning to the given word.

19. Groggy
 (a) Alert (b) Lethargic
 (c) Serene (d) Optimistic
20. Compromise
 (a) Concession (b) Disparity
 (c) Ultimatum (d) Opposition
21. Conducive
 (a) Compatible (b) Favourable
 (c) Predictable (d) Dispensable

DIRECTIONS (Qs. 22-24): In the question given below, out of the four alternatives, choose the one which is opposite in meaning to the given word.

22. Adverse
 (a) Benign (b) Pernicious
 (c) Ominous (d) Hostile
23. Essential
 (a) Integral (b) Fundamental
 (c) Peripheral (d) Principal
24. Commend
 (a) Celebrate (b) Endorse
 (c) Uphold (d) Disparage

DIRECTIONS (Qs. 25-27): In the given options, choose the option that can substitute the phrases given below.

25. A subtle difference in meaning, tone or expression
 (a) Nuance (b) Understatement
 (c) Allusion (d) Intonation
26. A temporary suspension of activity, especially during conflict, without a final settlement
 (a) Amnesty (b) Tussle
 (c) Armistice (d) Hostilities
27. A person who has a deep appreciation for beauty, especially in art or nature.
 (a) Realist (b) Aesthete
 (c) Sceptic (d) Visionary

DIRECTIONS (Qs. 28-30): In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase.

28. Call the shots
 (a) To make authoritative decisions
 (b) To criticize others publicly
 (c) To report facts without bias
 (d) To avoid taking responsibility

29. Toe the line
 (a) To challenge norms
 (b) To express a neutral opinion
 (c) To conform to expected standards
 (d) To blur the line between fact and fiction
30. To make the jump
 (a) To lose focus
 (b) To transition drastically
 (c) To follow someone's advice blindly
 (d) To succeed unexpectedly

DIRECTIONS (Qs 31-33) In each of the following sentences, there are two blank spaces. Below each sentence, there are five options with a pair of words each. Fill up the sentence with the pair of words that make the sentence grammatically and contextually correct.

31. The nuanced view of procrastination reveals a mindset that values mental _____ over rigid control, and reframes delay as a form of strategic _____.
 (a) discipline, neglect (b) clarity, rebellion
 (c) flexibility, pacing (d) passivity, denial
32. By treating procrastination not as failure but as a redirection of focus, the author makes a case for reframing moments of delay as _____ rather than _____.
 (a) excuses, risks (b) opportunities, flaws
 (c) setbacks, escapes (d) luxuries, habits
33. The author's candid admission of procrastination, rather than undermining his credibility, actually lends his argument a sense of _____ and encourages a more _____ view of productivity.
 (a) detachment, sceptical
 (b) irony, critical
 (c) rigidity, structured
 (d) authenticity, forgiving

DIRECTIONS (Qs. 34-36): In the following questions, a sentence/ part of the sentence is underlined. Below are given alternatives which may improve the underlined part. Choose the correct alternative.

34. Only after the results were independently verified, the institution agreed to fund the next phase of the experiment.
 (a) Only after the results had been independently verified
 (b) Even after the results were independently verified
 (c) Although the results were independently verified
 (d) Unless the results had been independently verified
35. The report is impressive, not because of its volume, but because it providing a novel insight into the issue.
 (a) but because it provides a novel insight
 (b) but because of it providing a novel insight
 (c) but because it has provided a novel insight
 (d) but because it provided a novel insight
36. Listening to your gut is one of the smartest strategies you can employ to help you find your purpose in life.
 (a) is a smart way to find your purpose
 (b) is a key method for discovering your life's purpose
 (c) is among the best strategies to find your calling
 (d) is a helpful tool in uncovering your purpose

DIRECTIONS (Qs. 37-40): Each sentence given below is divided into three parts labelled as (a), (b) and (c). One of these three parts may contain an error. If the error is in the part labelled as (a), then that is your answer. If you think that there are no errors, then mark (d) as your answer.

37. (a) Dedication is the act of being fully devoted to something,
(b) whether this is something intangible, such as a task, goal, or desired outcome,
(c) or something that you can feel yourself physically being a part of.
(d) No error
38. (a) Scheduling priorities demands not only clarity of intent,
(b) but also an unwavering willingness
(c) to forgo short-term pleasures in lieu of long-term gains.
(d) No error
39. (a) The notion that multitasking enhances efficiency
(b) has long been popular, despite
(c) there being mounting evidence to the contrary
(d) No error
40. (a) Using free moments to read
(b) has a more meaningful effect on your output
(c) than spending the same time to scroll social media
(d) No error

SECTION-B : Intelligence & Critical Reasoning

DIRECTIONS (Qs. 41-44): Study the following information carefully and answer the given question.

In a certain Apiary, some birds are kept in cages. There are 5 cages E1, E2, E3, E4 and E5. There are 5 species of birds: Eagle, Falcon, Crane, Owl, and Parrot. There are 2 Birds of each species. Two birds of the same species cannot be put into the same cage. The cages are looked after by attendants Surya, Prakash, Tilak, Rakesh, and Vinod.

Eagle and Owl cannot be housed together. Falcon cannot be housed with either a Crane or an Owl. Vinod can attend to Falcons, Crane, Owl, and Parrot. Prakash attends to cage housing both an Eagle and a Falcon. Surya attends to cage housing Eagle with Crane, or Parrot. Cages E1, E2, and E3 are assigned to Surya, Prakash, and Vinod but not necessarily in same order. E1 and E5 cages are at either end and house birds of the same species. E3 and E4 cage house the same pair of birds.

41. Tilak looks after of which birds?
(a) Eagle & Parrot (b) Eagle & Falcon
(c) Crane & Owl (d) Crane and Parrot
42. Who looks after for both Eagle & Falcon?
(a) Surya (b) Vinod
(c) Tilak (d) Prakash
43. Eagle & Parrot is enclosed in which enclosure?
(a) E1 (b) E2
(c) E3 (d) E4
44. Find Odd one out
(a) Rakesh & Prakash
(b) Vinod & Surya
(c) Surya and Rakesh
(d) Tilak and Rakesh

DIRECTIONS (Qs. 45-47): Study the information below to answer the questions that follow.

- Ava, Liam, and Naoh are children of Mr. and Mrs. Smith.
 - Emma, James, and Olivia are children of Mrs. and Mr. Johnson.
 - Olivia and Liam are a married couple and have two children named Sophia and Lucas.
 - Isabella and Ethan are children of Mr. and Mrs. Williams.
 - Isabella is married to Noah and has three children named Mia, Benjamin, and Charlotte.
45. How is Sophia related to Benjamin?
(a) Sister (b) Cousin
(c) Aunt (d) Niece
 46. What Mr. William is related with Charlotte?
(a) Father (b) Son
(c) Grand Father (d) Uncle
 47. How Olivia is related with Isabella?
(a) Sister-in-law (b) Mother-in-law
(c) Cousin (d) Daughter-in-law

DIRECTIONS (Qs. 48-51): Solve the following question and mark the most appropriate option.

- (i) Bengalis and Tamils are politicians, poets and warriors.
 - (ii) Tamils and Pubjabis are politicians, warriors and mathematicians.
 - (iii) Pubjabis and Gujaratis are politicians, businessmen and mathematicians.
 - (iv) Gujaratis and Kashmiris are businessmen, poets and mathmaticians.
 - (v) Bengalis and Kashmiris are businessmen, poets and warriors.
48. Which two groups are both politicians and poets?
(a) Bengalis and Tamils
(b) Tamils and Punjabis
(c) Gujaratis and Kashmiris
(d) Bengalis and Kashmiris
 49. Who are the businessmen and mathematicians?
(a) Gujaratis and Tamils
(b) Punjabis and Gujaratis
(c) Tamils and Punjabis
(d) Bengalis and Kashmiris
 50. Which two groups are both politicians and warriors?
(a) Bengalis and Tamils
(b) Tamils and Kashmiri
(c) Gujaratis and Kashmiris
(d) Bengalis and Kashmiris
 51. Who are the poets and warriors?
(a) Bengalis and Kashmiris
(b) Tamils and Punjabis
(c) Gujaratis and Kashmiris
(d) Bengalis and Tamils

DIRECTIONS (Qs. 52-55): Answer the question based on the information

A sports week was organized in an institute from 7th to 14th of a month, 7th being a Wednesday. During this period, various sports were organized like cricket, badminton, table-tennis, kabaddi, hockey and football and they were played, one game

being played on each day. The following conditions had to be complied with.

Hockey was not played on the closing day i.e. on 14th. Table-tennis was played on the previous day of the cricket game. Football was not played either on Wednesday or Saturday. No game was played on Thursday and Sunday. Kabaddi was played on Monday. There was a gap of 2 days between cricket and football.

52. The sports week started with which game?
 - (a) Table-tennis (b) Hockey
 - (c) Cricket (d) Badminton
53. How many days gap is there between the game of hockey and football?
 - (a) Three (b) Five
 - (c) Four (d) Two
54. Which pair of games was played on Wednesdays?
 - (a) Cricket and Tennis
 - (b) Hockey and Badminton
 - (c) Football and Cricket
 - (d) Hockey and Cricket
55. Which game were played between two no game day
 - (a) Hockey - Kabaddi (b) Football - Cricket
 - (c) Badminton - Hockey (d) Table Tennis-Cricket

DIRECTIONS (Qs. 56-60): Each question below contains two statements labeled Assertion (A) and Reason (R). Read both the statement carefully and answer accordingly.

- (a) Both A and R are true, and R is the correct explanation of A.
 - (b) Both A and R are true, but R is NOT the correct explanation of A.
 - (c) A is true, but R is false.
 - (d) A is false, but R is true.
56. **Assertion (A):** Plants produce oxygen during photosynthesis.
Reason (R): During photosynthesis, plants convert carbon dioxide and water into glucose and oxygen using sunlight.
 57. **Assertion (A):** Crocodiles have gills.
Reason (R): Gills allow extraction of oxygen from water.
 58. **Assertion :** Diamond is the hardest material
Reason (R): Diamond is used in making jewellery because of its shine due to total internal reflection.
 59. **Assertion (A):** Mount Abu is cooler than Jodhpur.
Reason (R): Mount Abu is situated at a higher elevation compared to Jodhpur.
 60. **Assertion (A):** A football match consists of two halves, each lasting 45 minutes.
Reason (R): The duration of a football match is non standardized that can be changed during the match.
 61. **Statement:** The librarian finds some cases in which the pages from certain books issued from the library are torn.
Courses of Action:
 - I. The librarian should keep a record of books issued to each student, and if the pages are found torn, strict measures should be taken against the child who had been issued that book.

- II. Some funds should be collected from the children collectively to renovate the library.
 - (a) If only course of action I follows
 - (b) If neither course of action I nor II follows
 - (c) If only course of action II follows
 - (d) If both courses of action I and II follow
62. **Statement:** The availability of imported smartphones has increased in the indigenous market, leading to a decrease in the demand for indigenous smartphones.

Courses of Action:

- I. The government should impose least import duties on foreign smartphones.
 - II. Retailers should stop selling imported smartphones to encourage the demand for indigenous smartphones.
 - (a) If only course of action I follows
 - (b) If neither course of action I nor II follows
 - (c) If only course of action II follows
 - (d) If both courses of action I and II follow
63. **Statement:** A significant number of errors were discovered in the Accounts Department of a manufacturing company.

Courses of Action:

- I. An experienced team of auditors should be appointed to thoroughly review the accounts.
 - II. A formal inquiry should be initiated to identify and take action against the employees responsible for the discrepancies.
 - (a) If only course of action I follows
 - (b) If neither course of action I nor II follows
 - (c) If only course of action II follows
 - (d) If both courses of action I and II follow
64. **Statement:** Due to increasing pollution, the government has announced that it will ban the use of all single-use plastic products from next month.

Courses of Action:

- I. The government should introduce an awareness campaign to encourage people to use eco-friendly products.
 - II. The government should provide subsidies to companies that manufacture eco-friendly products.
 - (a) If only course of action I follows
 - (b) If neither course of action I nor II follows
 - (c) If only course of action II follows
 - (d) If both courses of action I and II follow
65. **Statement:** The number of people using public transportation in the city has decreased drastically since the introduction of lower parking fees for private vehicles in the downtown area.

Courses of Action:

- I. The city should increase the parking fees to encourage the use of public transportation.
- II. Public transportation fares should be reduced to make them more attractive to people.
- (a) If only course of action I follows
- (b) If neither course of action I nor II follows
- (c) If only course of action II follows
- (d) If both courses of action I and II follow

66. **Statement:** The government is considering implementing a uniform tax rate across all income brackets.

Arguments:

I. This will simplify the tax system and reduce administrative costs.

II. Higher-income individuals will bear a disproportionate tax burden under a uniform tax rate.

- (a) If only Argument I is strong
(b) If only Argument II is strong
(c) If both Argument I and II are strong
(d) If neither Argument I nor II is strong

67. **Statement :** Should international travelers arriving from countries with high rates of an infectious disease outbreak be subjected to mandatory health screening at the airport?

Arguments:

I. No, this will create unnecessary panic and inconvenience among travelers, especially if they are not sick.

II. Yes, identifying infected individuals early can help prevent the disease from entering and spreading within the country.

- (a) If only Argument II is strong
(b) If only Argument I is strong
(c) If either Argument I or II is strong
(d) If neither Argument I nor II is strong

68. **Statement:** Should cryptocurrency trading platforms be regulated by a central authority?

Arguments:

I. Yes, regulation would ensure transparency and protect investors from fraud and market manipulation.

II. No, central regulation would defeat the purpose of decentralization, which is the core principle of cryptocurrency.

- (a) If only Argument II is strong
(b) If only Argument I is strong
(c) If both Argument I and II is strong
(d) If neither Argument I nor II is strong

69. **Statement:** Should the government hand over the management of all public transportation services to private operators?

Arguments:

I. Yes, private operators are more efficient and can provide better services to the public.

II. No, public transportation is a basic service and should remain under government control to ensure affordability.

- (a) If only Argument II is strong
(b) If only Argument I is strong
(c) If both Argument I and II are strong
(d) If neither Argument I nor II is strong

70. **Statement:** Should government schools be allowed to terminate underperforming teachers based on student performance and feedback?

Arguments:

I. Yes, this will improve accountability and enhance the overall quality of education in public schools.

II. No, student performance can be influenced by many factors beyond a teacher's control, making such assessments unfair.

- (a) If only Argument II is strong
(b) If only Argument I is strong
(c) If both Argument I or II is strong
(d) If neither Argument I nor II is strong

DIRECTION (Q. 71): Study the following information carefully and answer the question given below.

Eight persons Bala, Chintu, Devraj, Ekta, Faruk, Gagan, Hardev and Isha were born in different years viz. 1967, 1976, 1982, 1994, 1999, 2005, 2010 and 2013.

Note: The age of all the persons is calculated based on the year 2024.

Isha was born 11 years before Faruk. Devraj is born before Faruk. The number of persons born before Gagan is same as the number of persons born after Hardev. The age of Hardev is 11 years less than that of Bala. The difference between the age of Ekta and Bala is a prime number.

71. Who among the following person was born in the year 2010?

- (a) Faruk
(b) The one who was born immediately before Gagan
(c) Isha
(d) The one who was born immediately before Chintu

72. Introducing to Suresh, Garima said, "He is the son of the daughter of the father of my uncle." How is the Suresh related to the Garima?

- (a) Brother (b) Nephew
(c) Uncle (d) Son-in-law

73. In a certain code language, "MONTHLY" is written as "NLKQEIB". What will be the code for "ANNUAL" in the same language?

- (a) AKMRXO (b) ZKKXOR
(c) ZKKRXO (d) ZMMORX

74. The letters A, P, R, X, S, and Z are arranged in rows. S is seated second to the right of P. A and P are at the ends. R is seated to the immediate left of A. Z is the neighbour of both S and R. Who is seated to the immediate right of P?

- (a) A (b) X (c) S (d) Z

75. Manik walked 20 m towards north. Then he turned right and walks 30 m. Then he turns right and walks 35 m. Then he turns left and walks 15 m. Finally he turns left and walks 15 m. In which direction and how many metres is he from the starting position?

- (a) 15 m West (b) 30 m East
(c) 30 m West (d) 45 m East

76. In a certain code 'BUDGET' is written as 'DUBTEG'. How is 'ONLINE' written in that code?

- (a) OLENIN (b) NOILEN
(c) LNOENI (d) LNEONI

77. When 15 people each shake hands with every other person exactly once, the total number of handshakes is:

- (a) 110 (b) 105 (c) 100 (d) 225

DIRECTION (Q. 78): Read the following information carefully and answer these question:

Kartik, Layra, Mayra, Neelu, Jiya, Pranav and Heena are sitting in a circle facing at the centre and playing cards. Jiya is neighbour of Kartik and Neelu. Heena is not between Pranav and Mayra, Pranav is to the immediate right of Kartik. Layra is second to the left of Heena.

78. Which of the following pair of persons sitting adjacent to each other?
 (a) Layra - Kartik (b) Mayra - Pranav
 (c) Neelu - Mayra (d) Heena - Neelu
79. The following questions are based on the information given below:
- A cuboid shaped wooden block has 6 cm length, 4 cm breadth and 1 cm height.
 - Two faces measuring 4 cm $\times$ 1 cm are coloured in black.
 - Two faces measuring 6 cm $\times$ 1 cm are coloured in red.
 - Two faces measuring 6 cm $\times$ 4 cm are coloured in green.
 - The block is divided into 6 equal cubes of side 1 cm (from 6 cm side), 4 equal cubes of side 1 cm (from 4 cm side).
- How many cubes having red, green and black colours on at least one side of the cube will be formed?
 (a) 16 (b) 12 (c) 10 (d) 4
80. ELFA, GLHA, ILJA, _____, MLNA
 (a) OLPA (b) KLMA (c) LLMA (d) KLLA

SECTION-C : Mathematical Skills

81. There is a leak in the bottom of a cistern. Before the leak, it could be filled in 2.5 hours. It now takes $\frac{1}{4}$ hour longer. If the cistern is full, in how much time would the leakage empty the full cistern?
 (a) 52 hours (b) 23 hours
 (c) 35 hours (d) 27.5 hours
82. Two filling pipes T and H can fill a tank in 30 and 20 hours respectively. Pipe H alone is kept open for half the time and both pipes are kept open for the remaining time. In how many hours, will the tank be completely full?
 (a) 15 hours (b) 25 hours
 (c) 40 hours (d) 28 hours
83. The average age of a woman and her daughter is 44 years. The ratio of their ages is 3 : 1 respectively. What is the daughter's age?
 (a) 22 years (b) 48 years
 (c) 52 years (d) 32 years
84. One year ago, a mother was 5 times older than her son. After 6 years, her age becomes more than double her son's age by 5 years. The present ratio of their age will be
 (a) 13 : 12 (b) 3 : 1
 (c) 11 : 3 (d) 21 : 5
85. If a polynomial $f(x) = 5x^3 + 7x^2 - 4x + 9$ is divided by $(X - 4)$, find the remainder using the Remainder Theorem.
 (a) 370 (b) 325 (c) 475 (d) 425
86. A well has to be dug out that is to be 27.5 m deep and of diameter 7 m. Find the cost of plastering the inner curved surface at ₹ 3.5 per sq. metre
 (a) ₹ 1465.5 (b) ₹ 2117.5
 (c) ₹ 2450.5 (d) ₹ 2349.5
87. Two cans have the same height equal to 21 cm. One can is cylindrical, the diameter of whose base is 8 cm. The other can has a square base of side 8 cm. What is the difference in their capacities approximately?
 (a) 350 cm^3 (b) 289 cm^3 (c) 450 cm^3 (d) 300 cm^3
88. The sum of money is to be divided amongst A, B and C in the respective ratio of 3:4:5 and another sum of money is to be divided between E and F equally. If F got ₹ 1,050/- less than A, how much amount did B receive?
 (a) ₹ 750/- (b) ₹ 2,000/-
 (c) ₹ 1,500/- (d) Cannot be determined
89. Three friends A, B and C divide ₹ 3,810 amongst them in such a way that if ₹ 20, ₹ 40 and ₹ 30 are removed from the sums that A, B and C received respectively, then the share of the sums that they got will be in the ratio of 14 : 21 : 27. How much did C receive?
 (a) ₹ 1650 (b) ₹ 710 (c) ₹ 825 (d) ₹ 1575
90. Two cards are drawn from a pack full of cards, in succession, with replacement. What is the probability that both are of different colours?
 (a) $\frac{1}{2}$ (b) $\frac{5}{52}$ (c) $\frac{2}{13}$ (d) $\frac{1}{13}$
91. There are 5 different red dyes, 4 different black dyes and 3 different brown dyes. How many combinations of dyes can be chosen taking at least one red and one black dye?
 (a) 2546 (b) 3720 (c) 1253 (d) 2373
92. Amar is thrice as good a workman as Vikram, and is therefore able to finish a piece of work in 80 days less than Vikram. Find the time in which they can do it working together.
 (a) 16 days (b) 15 days (c) 7 days (d) 30 days
93. Eight women and 12 boys complete a certain piece of work in 9 days. If each woman takes twice the time taken by a boy to finish the work, in how many days will 12 boys finish the same work?
 (a) 15 (b) 21 (c) 9 (d) 12
94. P can do a work in 14 days and Q in 21 days. They begin together but three days before completion P leaves. In how many days work is completed ?
 (a) 10 days (b) $7\frac{1}{5}$ days
 (c) $5\frac{1}{5}$ days (d) $10\frac{1}{2}$ days
95. When the price of rice was increased by 32%, a family reduced its consumption in such a way that the expenditure on rice was only 10% more than before. If 30 kg per month were consumed before, find the new monthly consumption.
 (a) 42 kg (b) 35 kg (c) 25 kg (d) 16 kg
96. A man's income is increased by ₹ 1,600 and at the same time, the rate of tax to be paid is reduced from 12% to 10%. He now pays the same amount of tax as before. What is his increased income, if 20% of his income is exempted from tax in both cases?
 (a) ₹ 6,300 (b) ₹ 9,600 (c) ₹ 4,500 (d) ₹ 6,500
97. A motor boat can travel at 10 km/h in still water. It traveled 91 km downstream in river and then returned, taking altogether 20 hours. Find the rate of flow of river.
 (a) 3 km/hour (b) 5 km/hour
 (c) 6 km/hour (d) 7 km/hour
98. Thrice the speed of a boat downstream is equal to twice the speed upstream. The ratio of its speed in still water to the speed of current is
 (a) 1 : 5 (b) 1 : 3 (c) 5 : 1 (d) 2 : 3

99. A car starts with a speed of 25 km/h and increases its speed by 10 km/h after every hour. Another car has a constant speed of 60 km/h. In how much time, both the cars cover equal distance?
(a) 4 hours (b) 5 hours (c) 6 hours (d) 8 hours
100. The angle of elevation of an aeroplane from a point on the ground is 45° . After 15 seconds flight, the elevation changes to 30° . If the aeroplane is flying at a height of 3000 m, what is the speed of the plane in km per hour (approximately)?
(a) 208.3 (b) 306.7 (c) 402.6 (d) 527.0
101. The angles of depression and elevation of the top of a wall 24 m high from top and bottom of a tree are 60° and 30° respectively. The distance of the tree from the base of the wall and the height of the tree is _____.
(a) 56.21 m and 106 m (b) 41.56 m and 96 m
(c) 32.42 m and 66 m (d) 36.52 m and 135 m
102. A person observes the angle of elevation of a building as 30° . The person proceeds towards the building with a speed of $25(\sqrt{3} - 1)$ m/hour. After 2 hours, he observes the angle of elevation as 45° . The height of the building (in m) is
(a) 100 (b) $50(\sqrt{3} + 1)$
(c) 50 (d) $50(\sqrt{3} - 1)$
103. Two trains move from station A and station B towards each other at the speed of 45 km/hr and 55 km/hr. At the meeting point, the driver of the second train felt that the train has covered 120 km more. What is the distance between A and B?
(a) 1200 km (b) 1320 km
(c) 1100 km (d) 960 km
104. A train covers 220 km distance in 5 hours. Another train covers the same distance in 1 hour less. What is the difference in the distances covered by these trains in one hour?
(a) 45 km (b) 9 km
(c) 40 km (d) None of these
105. A plane left 30 minutes later than the scheduled time and in order to reach the destination 1500 km away in time, it had to increase the speed by 250 km/h from the usual speed. Find its usual speed.
(a) 720 km/h (b) 740 km/h
(c) 730 km/h (d) 750 km/h
106. 50 g of an alloy of gold and silver contains 70% gold (by weight). The quantity of gold, that is to be mixed up with this alloy, so that it may contain 85% gold, is
(a) 200 g (b) 50 g (c) 150 g (d) 10 g
107. Two alloys contain zinc and copper in the ratio of 3 : 1 and 5 : 1. In what ratio the two alloys should be added together to get as new alloy having zinc and copper in the ratio of 4 : 1?
(a) 7 : 5 (b) 5 : 7
(c) 3 : 5 (d) None of the above
108. The value of

$$\frac{1.073 \times 1.073 - 0.927 \times 0.927}{1.073 - 0.927} + \frac{(3^4)^4 \times 9^6}{(27)^7 \times (3)^9}$$
 is
(a) 2 (b) $\frac{1}{9}$ (c) $2\frac{1}{9}$ (d) $3\frac{1}{9}$

109. The value of

$$1\frac{1}{7} - \frac{2}{3} + \frac{\frac{2}{5}}{1 - \frac{1}{25}}$$

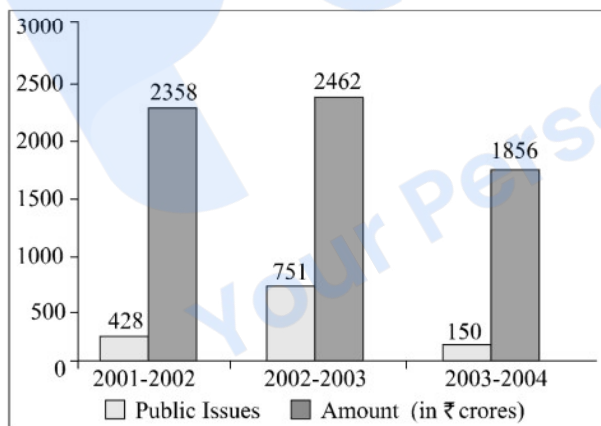
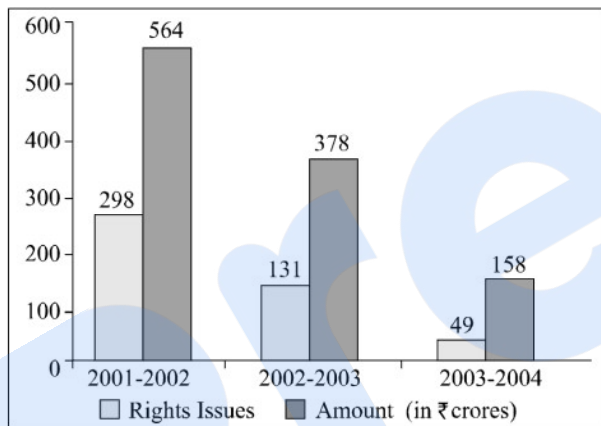
$$1 - \frac{1}{7} \left[\frac{1}{3} - \frac{\frac{2}{5}}{1 - \frac{2}{5}} \right]$$

- (a) 1 (b) $\frac{24}{25}$ (c) $1\frac{1}{24}$ (d) $\frac{75}{88}$
110. A person invested some amount at the rate of 20 % simple interest and a certain amount at the rate of 25 % simple interest. He received yearly interest of Rs. 130. But if he had interchanged the amounts invested, he would have received Rs. 4 more as interest. How much did he invest at 20 % simple interest?
(a) ₹ $733\frac{1}{3}$ (b) ₹ $333\frac{1}{3}$
(c) ₹ $500\frac{1}{3}$ (d) ₹ $335\frac{1}{3}$
111. The population of a colony was 3600 three years back. It is 4800 right now. What will be the population three years down the line, if the rate of growth of population has been constant over the years and has been compounding annually?
(a) 6,000 (b) 6,400 (c) 7,200 (d) 9,600
112. A money lender lent out ₹ 25,000 in two parts, one at 8 % and the other at 9 %. If the total annual income on the amount is ₹ 2,187.50, the money lent at 8 % is
(a) ₹ 12,500 (b) ₹ 6,250
(c) ₹ 10,000 (d) ₹ 18,750
113. The average age of all the student of a class is 18 years. The average age of boys of the class is 20 years and that of the girls is 15 years. If the number of girls in the class is 20, then find the number of boys in the class.
(a) 15 (b) 45 (c) 30 (d) 50
114. A batsman has a certain average of runs for 12 innings. In the 13th inning he scores 96 runs thereby increasing his average by 5 runs. What is his average after the 13th inning?
(a) 31 (b) 48 (c) 36 (d) 72
115. A, B and C started a business with capital in the ratio 5:6:8 respectively. After one year C withdrew 50% of his capital and A increased his capital by 60% of his investment. After two years in what ratio should the earned profit be distributed among A, B and C respectively?
(a) 4 : 3 : 2 (b) 2 : 3 : 3
(c) 13 : 12 : 12 (d) Cannot be determined
116. What is the smallest number which when increased by 7 is divisible by 12, 16, 18, and 21?
(a) 504 (b) 301 (c) 3017 (d) 1513
117. Two numbers are in the ratio 6:7. If their HCF is 4, find their LCM.
(a) 168 (b) 160 (c) 80 (d) 100

118. If $(x+y+z)=12$ and $(x^2+y^2+z^2)=50$, find the value of $(x^3+y^3+z^3-3xyz)$
(a) 36 (b) 24 (c) 48 (d) 42
119. How many litres of water flows out of a pipe of cross section 15 cm^2 in 1 min, if the speed of water in the pipe is 30 cm/sec?
(a) 20 litres (b) 15 litres
(c) 27 litres (d) 18 litres
120. The cost of 13 kg of sugar is ₹ 208/-. The cost of 17 kg. of rice is ₹ 510/- and the cost of 21 kg. of wheat is ₹ 357/-. What is the total cost of 21 kg of sugar, 26 kg of rice and 19 kg of wheat?
(a) ₹ 1,451/- (b) ₹ 1,439/-
(c) ₹ 1,500/- (d) ₹ 1,435/-

SECTION-D : Data Analysis & Sufficiency

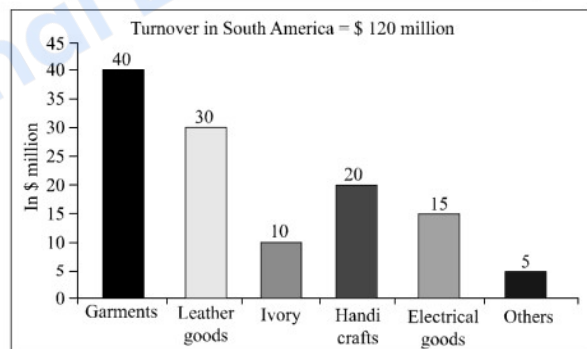
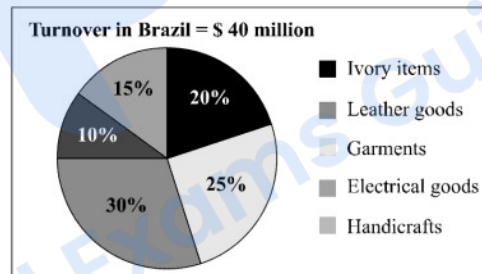
DIRECTIONS (Qs. 121-125): Attempt the question based on the bar charts, which give the details of Rights and Public Issues Floated and Amount Raised by Indian Companies.



121. When was the proportion of rights issues to the total number of issues the minimum?
(a) 2002-03
(b) 2001-02
(c) 2003-04
(d) Data insufficient

122. If in 2001-02, the corporate saving is $2\frac{1}{4}\%$ of the total amount raised and in 2003-04, the saving is $2\frac{1}{2}\%$ of the total amount raised, the increase in the saving amount was approximately ₹ _____ crore.
(a) 65.121 (b) 45.025 (c) 35.70 (d) 55.125
123. The percentage change in total amount in both issues raised during 2002-03 over 2001-02 was
(a) -2.4% (b) -0.28% (c) -2.8% (d) -3.2%
124. If a persons invested ₹ 200 crore in 2002-03 to obtain X number of rights issues and invested the same amount to obtain Y number of public issues during the same year, then the value of $(X - Y)$ was nearly
(a) 6 (b) -4 (c) -8 (d) 8
125. The average amount raised per issue during the given period was nearly ₹ _____ crores.
(a) 4.30 (b) 5.80 (c) 3.20 (d) 10.40

QUESTIONS (Qs. 126-130): The pie chart shows percentage turnover of each item in South America by a company M/s Fox. The bar graph gives the turnover in \$ millions in South America of various items by M/s Fox. Rest of America refers to those countries which are in America other than Brazil.

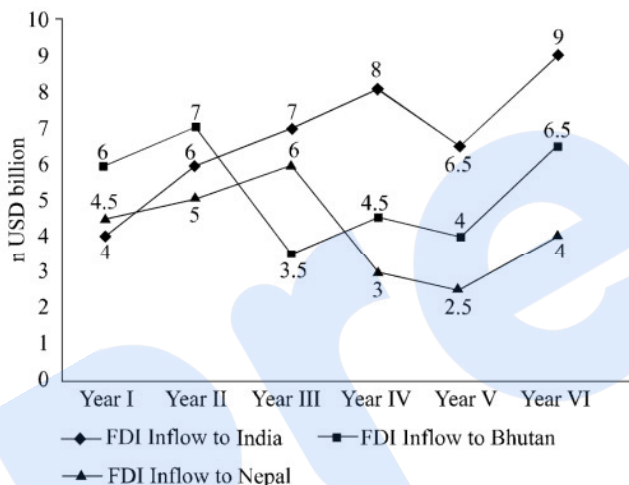


126. What is the percentage of Rest of America turnover for Leather goods?
(a) 25% (b) 29%
(c) 67% (d) None of these
127. What is the ratio of turnover from Rest of America for Ivory and Garments to the turnover from Brazil for Electrical and leather
(a) 2 : 14 (b) 14 : 1
(c) 15 : 7 (d) 7 : 15

128. Turnover from Brazil for Electrical goods and Handicrafts together is how many times the turnover from Rest of America for.
- (a) 63 (b) 36 (c) 50 (d) 46
129. The turnover from Ivory and Garments together from Brazil is what percent of the turnover from the Rest of America for Electrical and Leather goods together?
- (a) 48% (b) 60% (c) 56% (d) 65%
130. If the turnover from Rest of America for Electrical goods increases by 20%, then what is the ratio of turnover from Brazil for Handicrafts item to that from Rest of America for Electrical goods?
- (a) 1 : 18 (b) 18 : 1 (c) 5 : 11 (d) 11 : 5

DIRECTIONS (Qs. 131-135): Analyse the graph/s given below and answer the question that follows.

The graph shows the FDI inflows to India, Nepal and Bhutan in US dollars.

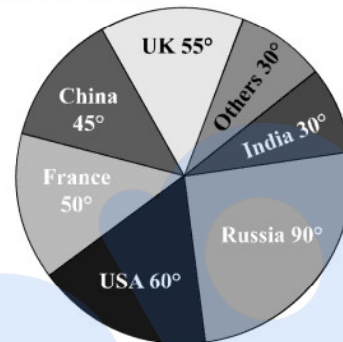


131. Average annual percentage growth rate in the FDI inflow to India is what percentage greater than average annual percentage growth rate in the FDI inflow to Nepal during the Year I to Year III?
- (a) 150% (b) 200% (c) 75% (d) 125%
132. What is the percentage rate of decline in the FDI inflow to Nepal during the Year III to Year V?
- (a) 140% (b) 58% (c) 56% (d) 62%
133. FDI inflow to India is how many times the FDI inflow to Nepal and Bhutan together for the given period?
- (a) 0.92 (b) 0.80 (c) 0.72 (d) 0.62
134. The difference between highest FDI inflow and lowest FDI inflow to India is what percent of total FDI inflow to Nepal for the given period of Year I to Year IV?
- (a) 20% (b) 30% (c) 15% (d) 10%
135. Of the total FDI inflow to India in Year IV, $\frac{1}{4}$ is from Bangladesh and $\frac{1}{2}$ of the remainder is from Myanmar, then what is the ratio of FDI from Bangladesh to that from Myanmar?
- (a) 3 : 1 (b) 3 : 2
(c) 1 : 3 (d) 2 : 3

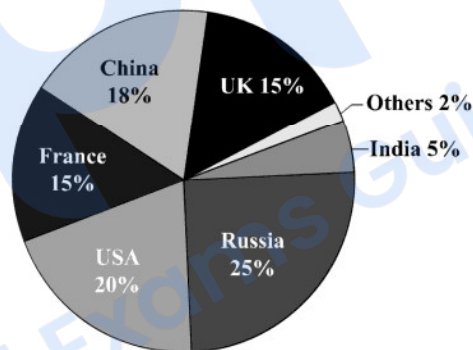
DIRECTIONS (Qs. 136-140): Go through the pie chart/s given below and answer the question that follows.

The distribution of construction of Solar Power Plant (S.P.P.) in the world in 2024 and the cost incurred in building and maintaining these Solar Power Plant (S.P.P.) in 2024 was tabulated countrywise and drawn in the pie chart.

**Distribution of Solar Power Plant
S.P.P construction in the world in 2024**



**Cost of constructing & Maintaining (S.P.P)
in the world in 2024**



Total cost incurred in constructing and maintaining (S.P.P) in world in 2024 = \$3500 million

136. The ratio of the difference in number of solar power plant constructed by India and Russia & the difference in the number of Solar Power Plant constructed by France and China is.
- (a) 6 : 5 (b) 12 : 1
(c) 14 : 3 (d) None of these
137. Due to by 30%, Russia by 35% UK by 25% and, if USA reduces the construction of Solar Power Plant by 30%, Russia by 35% UK by 25% and others by 40%, then what will be the total number of Solar Power Plant construction in the world?
- (a) 92000 (b) 78000
(c) 84000 (d) Data Insufficient
138. What is ratio of average expenditure in maintaining and constructing of one (S.P.P) by USA and China.
- (a) 15 : 2 (b) 35 : 1 (c) 25 : 7 (d) 5 : 6
139. If each (S.P.P) constructing in the country for "Others" category is 10000 units, which is $\frac{1}{4}$ of the cost of each S.P.P constructed in Russia and USA, then the weight of total S.P.P constructed in Russia and USA shall be _____ units in 2024
- (a) 1.2 (b) 3.0
(c) 2 (d) Data Insufficient

140. If the cost of building and maintaining of (S.P.P) of USA increases by 15% in 2025 and that of UK by 10% in the same period, how much amount will USA have to spend more than UK in building and maintaining Solar Power Plant. (Assume that distribution shall remain same as in 2024).
- (a) \$ 150 million (b) \$ 200 million
(c) \$ 227.50 million (d) None of these

DIRECTIONS (Qs. 141-145): Study the table/s given below and answer the question that follows.

Table X gives the readership of books in hundred from 2001 to 2004 and Table Y indicates the number of books published during this period.

Table X

Category	2001		2002		2003		2004	
	E	H	E	H	E	H	E	H
General	1000	1200	1500	1600	2000	1800	2500	2000
Sports	400	200	600	400	1000	700	1200	800
Film	600	800	900	1200	1000	1500	1200	1800
Business	300	100	400	150	600	250	800	500

Table Y

Category	2001		2002		2003		2004	
	E	H	E	H	E	H	E	H
General	12	10	15	14	17	15	29	16
Sports	3	2	5	3	7	4	8	6
Film	3	4	5	6	5	7	6	8
Business	4	2	5	3	6	4	7	8

E = English, H = Hindi

No Books was discontinued during the above period.

141. What is the approximate average readership per book in 2003?
- (a) 14600 (b) 13615
(c) 13000 (d) 14100
142. Between 2001 and 2003, the number of books added is
- (a) 22 (b) 25
(c) 26 (d) 28
143. What is the ratio of added Hindi books to added English books between 2001 and 2002?
- (a) 3 : 2 (b) 2 : 3
(c) 1 : 1 (d) 6 : 1
144. In 2002, as against 2001, readership per books declined for which category?
- (a) Sports (b) General
(c) Business (d) Film
145. Considering only the English Sports books, what is the ratio between readership in 2001 and the readership during 2001-2004?
- (a) 1/8 (b) 4/53
(c) 2/9 (d) 2/15

DIRECTIONS (Qs. 146-150): The question consist of two quantities, one in Column A and the other in Column B. Mark answer as

146. Nineteen years from now Thomas will be three times as old as Tim is now. Tom is three years younger than Thomas.
Quantity A: Tom's age now.
Quantity B: Tim's age now.
- (a) If the quantity in column A is greater than the quantity in column B.
(b) If the quantity in column B is greater than the quantity in column A.
(c) If the quantities in column A and in column B are equal.
(d) If the comparison cannot be made from the given information.
147. Last week Mohit received ₹ 10 in commission for selling 100 copies of a magazine. Last week Manish sold 100 copies of this magazine. He received his salary of ₹ 5 per week plus a commission of 2 paise for each of the first 22 copies sold, 3 paise for each next 25 copies and 4 paise for each copy sold thereafter.
Quantity A: Mohit's commission in the last week.
Quantity B: Manish's total income for last week.
- (a) If the quantity in column A is greater than the quantity in column B.
(b) If the quantity in column B is greater than the quantity in column A.
(c) If the quantities in column A and in column B are equal.
(d) If the comparison cannot be made from the given information.
148. Amit has sold a book at a profit of 20% which cost him ₹ 56.25. Rita has sold a book at a loss of 5% which cost her ₹ 80.40.
Quantity A: The selling price of book which Amit sold.
Quantity B: The selling price of book which Rita sold.
- (a) If the quantity in column A is greater than the quantity in column B.
(b) If the quantity in column B is greater than the quantity in column A.
(c) If the quantities in column A and in column B are equal.
(d) If the comparison cannot be made from the given information.
149. If 5 people are transferred from Z to Y, further 5 more people are transferred from Y to X, then 5 are transferred from X to Y and finally, 5 more are transferred from Y to Z.
Quantity A: The maximum possible average of class Y.
Quantity B: The maximum possible average of class X.
- (a) If the quantity in column A is greater than the quantity in column B.
(b) If the quantity in column B is greater than the quantity in column A.
(c) If the quantities in column A and in column B are equal.
(d) If the comparison cannot be made from the given information.

150. Quantity A: Area of square with side 1.8 m
Quantity B: Area of a circle with diameter 2 cm.
- If the quantity in column A is greater than the quantity in column B.
 - If the quantity in column B is greater than the quantity in column A.
 - If the quantities in column A and in column B are equal.
 - If the comparison cannot be made from the given information.

DIRECTIONS (Qs. 151-155): The question below is followed by two statements marked I and II. You have to decide whether the data provided in statement are sufficient to answer the question and mark your answer accordingly.

151. By what percentage did the median household income in country Y decrease from 2004 to 2014?

Statement I: In 2004 the median household income in country Y was $\frac{2}{3}$ of the median household income in country X.

Statement II: In 2014 the median household income in country Y was $\frac{1}{2}$ of the median household income in country X.

- If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
 - If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
 - If the data in both statement I and II together are required to answer the question.
 - If the data in both statements I and II together are not sufficient to answer the question.
152. Monu makes four deposits in his bank account. What was his total deposit?

Statement I: The largest deposit was ₹ 2,500 and smallest was ₹ 270.

Statement II: The average deposit was ₹ 1,250.

- If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
 - If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
 - If the data in both statements I and II together are required to answer the question.
 - If the data in both statements I and II together are not sufficient to answer the question.
153. What is the percentage profit on selling of 12 dozens of eggs?

Statement I: Eggs were bought at ₹ 60 per dozen and sold in a lot of 4 numbers for ₹ 24.

Statement II: The mark-up on eggs is 20%.

- If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

- If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- If the data in both statement I and II together are required to answer the question.
- If the data in both statements I and II together are not sufficient to answer the question.

154. How many friends heard my story?

Statement I: I told the story to 7 friends, each of whom repeated it to five friends who did not tell this story to anybody else.

Statement II: Only 3 friends heard the story twice.

- If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
 - If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
 - If the data in both statements I and II together are required to answer the question.
 - If the data in both statement I and II together are not sufficient to answer the question.
155. If x is a positive integer, are x and 1 the only positive divisors of x ?

Statement I: x is less than 14.

Statement II: If x is doubled, the result is 27.

- If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- If the data in both statement I and II together are required to answer the question.
- If the data in both statements I and II together are not sufficient to answer the question.

DIRECTIONS (Qs. 156-160): Read the information below and answer the questions that follows. There are three Colleges A, B and C. The total number of maths students in college C is 40% more than the number of science students in College A. The number of maths students in College A is 200 more than the number of maths students in College C. The number of science students in College C is equal to the average number of science and maths students in College A. The sum of the number of science students in College C and maths student in College B is equal to the number maths students in College A. The total number of science students in all the three Colleges is 950. The total number of maths students in College B is 150.

156. What is the ratio of total number of science students in College C to the total number of maths students in College B?

(a) 12 : 5 (b) 7 : 2 (c) 9 : 4 (d) 8 : 3

157. The total number of science students in College B is how much percent more than the total number of science students in College A?

(a) 15% (b) 30% (c) 20% (d) 40%

158. Find the average number of maths students in all the three Colleges.
(a) 350 (b) 300 (c) 400 (d) 250
159. Find the total number of Science and Maths students in College C?
(a) 650 (b) 600 (c) 700 (d) 750
160. What is the difference between science students in College C and College A?
(a) 100 (b) 50 (c) 120 (d) 150

SECTION-E : Indian & Global Environment

161. Which institution launched an information database including a repository of information pertaining to municipal bonds?
(a) IRDAI (b) NABARD
(c) RBI (d) SEBI
162. Which ministry has recently (in Dec '22) launched the Stay Safe Online campaign & G-20 Digital Innovation Alliance (DIA) program in New Delhi, Delhi?
(a) Ministry of Electronics and Information Technology
(b) Ministry of Education
(c) Ministry of Science and Technology
(d) Ministry of Home Affairs
163. In January 2023, "World's First Palm-Leaf Manuscript Museum" was inaugurated in which state of India?
(a) Maharashtra (b) Kerala
(c) Tamil Nadu (d) Karnataka
164. Which company in January 2023 has signed an MoU with the Indian Space Research Organisation (ISRO) to empower Space technology startups in India?
(a) Microsoft India (b) Infosys Limited
(c) Larsen and Turbo (d) Reliance limited
165. Who authored the book, "Revolutionaries- The Other Story of How India Won Its Freedom" that was released by Union Minister of Home Affairs, Amit Shah in January 2023?
(a) Rakesh Sharma (b) Bibek Debroy
(c) Sanjeev Sanyal (d) Amit Agrawal
166. Who was declared as the next president of Bangladesh by the election commission of Bangladesh in February 2023?
(a) Zillur Rahman
(b) Mohammad Shahabuddin Chuppu
(c) Anisul Huq
(d) AK Abdul Momen
167. Which Indian movie has won 5 awards in the 6th Annual Hollywood Critics Association (HCA) Film Awards 2023?
(a) Pushpa
(b) The Kashmir Files
(c) RRR
(d) Laal Singh Chaddha
168. Which cricket team won the 8th edition of ICC Women's T20I World Cup 2023 by defeating South Africa women's team & claimed their 6th overall & 3rd consecutive ICC Women's T20I World Cup title?
(a) Australia (b) England
(c) India (d) West Indies
169. Which of the following statements is/are CORRECT with respect to the amendment made by the Reserve Bank of India (RBI) on the bank locker rules w.e.f. January 1, 2023?
I. Banks should ensure that any unfair terms or conditions are not incorporated in their locker agreements.
II. All the existing locker depositors are required to sign a renewal agreement before the specified date.
(a) Only I (b) Only II
(c) Both I and II (d) Neither I nor II
170. What was the theme of International Day of Happiness 2023 (Observed on 20th March, 2023)?
(a) Happiness Forever
(b) All that surrounds is happiness
(c) Be Mindful, Be Grateful, Be Kind
(d) Harmony and happiness
171. Which of the following statements is correct regarding the India's first underwater metro train?
I. Kolkata Metro Rail Corporation Limited (KMRCL) successfully conducted the trial run of India's 1st underwater metro train under the river bed of Hooghly through a tunnel of 32 meters below water level.
II. This Metro is expected to cover the 520-metre stretch under the river Hooghly in a span of 45 seconds.
(a) Only I (b) Only II
(c) Both I and II (d) Neither I nor II
172. According to 'Artificial Intelligence Index Report 2023', the 6th edition of the annual Artificial Intelligence (AI) index report published by Stanford University's Human-Centred Artificial Intelligence (HAI), which country is ranked 5th with most AI investments?
(a) India (b) Pakistan
(c) Russia (d) France
173. Who authored the book, "The World: A Family History"?
(a) Simon Sebag Montefiore
(b) Rao Inderjit Singh
(c) Lucy Worsley
(d) Harish Mehta
174. On 4th April 2023, _____ became the 31st member of the North Atlantic Treaty Organization (NATO).
(a) Finland (b) Italy
(c) Iceland (d) Syria
175. What is the maximum limit of instant transactions made using UPI LITE wallet?
(a) Rs. 100 (b) Rs. 200
(c) Rs. 500 (d) Rs. 2000

176. The world's first 200-meter-long Bamboo Crash Barrier, named "Bahu Balli," has been installed in which state of India?
 (a) Odisha (b) Maharashtra
 (c) West Bengal (d) Tamil Nadu
177. Which state passed the 'Protection of Drinking Water Catchment Areas Bill, 2023'?
 (a) Assam (b) Uttar Pradesh
 (c) Arunachal Pradesh (d) Odisha
178. Which of the following statements is correct regarding the PM SHRI scheme?
 I. It is a new centrally sponsored scheme that aims at developing more than 14500 schools across the country.
 II. The PM SHRI schools will aim at delivering quality teaching for the cognitive development of students and creating and nurturing holistic and well-rounded individuals equipped with key 21st century skills.
 III. This scheme was approved on March 7, 2023.
 (a) I and II (b) II and III
 (c) Only I (d) I, II and III
179. Which Insurance company rebranded itself as Zuno General Insurance Limited in February 2023?
 (a) Max Life Insurance Co. Ltd.
 (b) Reliance General Insurance
 (c) ICICI Lombard General Insurance
 (d) Edelweiss General Insurance
180. Which state/UT has initiated a programme called "alternate agriculture system for sustainability project" to boost organic food production in February 2023?
 (a) Jammu and Kashmir (b) Bihar
 (c) Assam (d) Odisha
181. What is the name of the book that has won the 2022 JCB Prize for Literature?
 (a) Valli (b) The Paradise of Food
 (c) The Far Field (d) Tomb of Sand
182. In November 2022, ISRO conducted its _____ consecutively successful launch of the Rohini "RH-200" sounding rocket from Thiruvananthapuram, Kerala.
 (a) 65th (b) 30th (c) 200th (d) 100th
183. Which State/Union territory Celebrated Losar Festival along with another State/Union territory to Mark their New Year in December 2022?
 (a) Nagaland and Arunachal Pradesh
 (b) Ladakh and Jammu & Kashmir
 (c) Mizoram and Assam
 (d) Bihar and Jharkhand
184. Nirmala Sitharaman announced the 'Dekho Apna Desh' scheme. In this new plan, the finance minister said that a total of _____ destinations in the country will be selected to be developed as a whole package in tourism with a challenging mode.
 (a) 50
 (b) 30
 (c) 25
 (d) 65
185. The centuries-old monastic dances specially the dance of deities Palden Lhamo and Gonpo or Mahakala were introduced for the first time in Palpung Zangdok Palri Monastery. This monastery is situated in which state/UT of India?
 (a) Assam (b) Ladakh
 (c) Arunachal Pradesh (d) West Bengal
186. Which bank was honoured with the 'Innovation in Consumer Tech' award for its India's 1st visual-voice-vernacular banking app at the 13th Aegis Graham Bell Awards (AGBA)?
 (a) Suryoday Small Finance Bank
 (b) Ujjivan Small Finance Bank
 (c) Utkarsh Small Finance Bank
 (d) Fincare Small Finance Bank
187. Which country abolished the Prevention of Terrorism Act (PTA) and introduced an AntiTerrorism Act in March 2023?
 (a) Sri Lanka (b) Afghanistan
 (c) Saudi Arabia (d) Turkey
188. According to the EY (Ernst & Young) report, India's economy will reach USD 26 trillion by _____.
 (a) 2025 (b) 2040 (c) 2050 (d) 2047
189. In which city, Prime Minister Narendra Modi inaugurated the program 'Commemoration of 50 years of Project Tiger' in April 2023?
 (a) Guwahati, Assam
 (b) Ujjain, Madhya Pradesh
 (c) Mysuru, Karnataka
 (d) Palakkad, Kerala
190. Padma Shri Awardee 'Prabhaben Sobhaghchand Shah', who passed away in January 2023, received Padma Shri award 2022 in which field?
 (a) Literature and Education
 (b) Social Worker
 (c) Art
 (d) Public Affairs
191. Who has been re-appointed as the Deputy Governor of the Reserve Bank of India (RBI) for one year in January 2023?
 (a) Michael Debabrata Patra
 (b) Urjit R. Patel
 (c) Raghuram Rajan
 (d) Subir Gokarn
192. Which of the following statements is correct regarding the instruments of monetary policy of the RBI?
 I. The MSF rate is placed at 25 basis points above the policy repo rate.
 II. Open market operations include outright purchase/sale of government securities by the Reserve Bank for injection/absorption of durable liquidity in the banking system.
 (a) Only I
 (b) Only II
 (c) Both I and II
 (d) Neither I nor II

193. Which among the following about the Indo-Gangetic-Brahmaputra Plain is NOT correct?
- It is the largest alluvial tract of the world.
 - The western boarder is marked by Sulaiman and Kirthar ranges.
 - This place is highly suited for the cultivation of sugarcane.
- (a) I and II (b) II and III
(c) Only I (d) Only II
194. On April 14, 2023, the Union Minister Parshottam Rupala, Ministry for Fisheries, Animal Husbandry and Dairying (MoFAHD), launched projects, 'Animal Pandemic Preparedness Initiative' (APPI) and _____-funded 'Animal Health System Support for One Health' (AHSSOH).
- (a) World Bank (b) IMF
(c) New Development Bank (d) UNDP
195. Which of the following statements is correct regarding the Indian revolt of 1857?
- In India it is often called the First War of Independence.
 - The mutiny broke out in the Bengal army because it was only in the military sphere that Indians were organized.
- (a) Only I (b) Only II
(c) Both I and II (d) Neither I nor II
196. Who among the following won the 71st Miss Universe 2022 title?
- (a) Nadia Ferreira
(b) Amanda Dudamel
(c) Celeste Cortesi
(d) R'Bonney Gabriel
197. Which Mutual Fund (MF) has rebranded itself as Bandhan Mutual Fund?
- (a) IDFC Mutual Fund
(b) SBI Mutual Fund
(c) LIC Mutual Fund
(d) TATA Mutual Fund
198. When was World Rotaract Day 2023 observed across the globe?
- (a) 11th March 2023 (b) 13th March 2023
(c) 14th March 2023 (d) 9th March 2023
199. Who among the following was not one of the seven members of the Drafting Committee of the Constituent Assembly?
- (a) B.R. Ambedkar (b) Dr. K M Munshi
(c) N. Gopalaswami (d) G V. Mavlankar
200. Which state became the 7th state to achieve 100% household tap water supply in rural areas under the 'Jal Jeevan Mission' (JJM)?
- (a) Bihar (b) Madhya Pradesh
(c) Gujarat (d) Haryana