

# CET 2019 ex



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2019



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CET Rank 1

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2013



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2012



Sujit Kumar  
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## 8 Marathon Workshops

| Number    | Area             | Questions | Time    |
|-----------|------------------|-----------|---------|
| Section 1 | Verbal Reasoning | 15        | 10      |
|           | LR Arrangement   | 30        | 25 - 30 |
|           | LR Traditional   | 30        | 25      |
| Section 2 | DI DS            | 25        | 20      |
|           | Quant            | 25        | 20      |
| Section 3 | Verbal           | 50        | 15      |
| Section 4 | Visual Reasoning | 25        | 15      |
|           | Grand Total      | 200       | 150     |

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### Mock Strategy Log

| Areas that shocked me | Areas I need to improve     |
|-----------------------|-----------------------------|
| 1                     | 1                           |
| 2                     | 2                           |
| 3                     | 3                           |
| Silly mistakes I made | Mock Taking strategy failed |
| 1                     | 1                           |
| 2                     | 2                           |
| 3                     | 3                           |

Hi guys,

Since 2017, 125 marks out of 200 marks paper has changed. Completely revamping the paper which reduced cutoffs from 165 (2016) to 125 last year (2017) for JBIMS. Given below are all new type

questions expected in CET so please go through them. Cetking mocks books shortcut eClasses are improved as per new paper pattern. If are non Cetking student you can join us on <http://cetking.com/shop/> or call 09594938931 to join.

Logic 30/30 marks new paper pattern

Apart from Input Output everything was be different last year and IO was difficult to solve.

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15 marks New type questions Puzzles/Arrangement

Day based and Floor based were new type puzzles rest only complexity increased.

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Critical Verbal Reasoning 13/15 marks new  
 Critical Reasoning <http://cetking.com/verbalreasoning/>  
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Rav Singh  
 Cetking

## I Verbal

The phrases given in bold are correct. Which of the phrases (a), (b), (c) and (d) given below should replace the phrase NOT given in bold to make the sentence grammatically meaningful and correct. If the sentence is correct as it is and there is no correction required (e) as the answer.

1. As part of the Goods and Services Tax (GST) reforms, a new levy called the GST Compensation Cess have been introduced to make good apprehended losses to States in the first five years of GST implementation.

- (a) Cess had been introduced (b) Cess has been introduced  
 (c) for making good apprehending (d) apprehend losses to States in the (e) No correction required

2. A legal personality is usually defined as a subject vested with rights and duties. However, within the parameters of law, it have never been confined to human beings and has even included idols and companies.

- (a) The legal personality is (b) However, within  
 (c) it has never been confined (d) confined to human beings  
 (e) No correction required

3. The right to appear in front of the court and plead is different from the rights to integration and equal protection under the law.

- (a) before the court (b) pleaded are different  
 (c) to integration and equal (d) in front of court  
 (e) No correction required

Directions for the next two questions

Which of the phrases (a), (b), (c) and (d) given below should replace the phrase given in bold in the following sentences to make the sentence grammatically meaningful and correct. If the sentence is correct as it is and there is no correction required (e) as the answer.

4. The biggest challenge India **faces have that** the groups perceived to be disadvantage consist of **very larger segment** of Indian society, while public policies are highly limited in scope.

- (A) faces is that the (B) faces are that the  
 (C) a very large segment (D) a very larger segment  
 (a) A and D are correct (b) B and D are correct  
 (c) A and B are correct (d) A and C are correct  
 (e) No correction required

5. In India, by contrast, the civil and contract related remedies available to consumers suffer from delays and poor recoveries. For this reason, the IBC, which offers a time-bound resolution, may be considered as a mechanism to provide some relief to consumers.

However, the pros and cons of the possible designs for doing so need to be considered.

- (a) available for consumer suffering from delays and poor recoveries. For this reason, the IBC, which offer a time-bound resolution, might be  
 (b) availability to consumers suffer from delayed and poor recovery. For this reason, the IBC, that is offering time-bound resolution, could be  
 (c) available to consumers suffering from delayed and poor recoveries. For this reason, the IBC, which offering a time-bounded resolution, shall be  
 (d) available at consumers suffered from delays and poor recovery. Due to this reason, the IBC, which offered a time-bound resolution, can be  
 (e) No correction required

In each question below, two sentences are given. These sentences are to be combined into a single sentence without changing their meaning. Three probable starters of the combined sentence are given which are denoted by A, B and C. Anyone or more or none of them may be correct. find out the correct starter(s) and accordingly select your answer from among the given five answer choices.

6. He had accumulated wealth disproportionate to his known sources of income. This was revealed when the income tax officials raided his house.

- A. On revealing the accumulated wealth, the income tax officials raided .....  
 B. His accumulated wealth which was disproportionate to his known sources of income was revealed to him by the income C. On raiding his house, the income tax officials accumulated .....  
 (1) None (2) Only A (3) Only B (4) Only C (5) All the three

7. He is very rich and has all the luxuries at his disposal. lie not contented.

- A. Despite being very rich.....  
 B. He is not contented because he is .....  
 C. Although he has all .....  
 (1) Only A (2) Only B (3) Only C (4) Both A and B (5) Both A and C

8. Both these boys had worked very hard besides getting good education. These aspects raised them to 100th percentile in the most prestigious admission test.

- A. Their good education and hard work .....  
 B. Because both these boys had .....  
 C. Their 100th percentile was .....  
 (1) All the three (2) Both A and B (3) Both B and C (4) Both A and C (5) None of these

In the question given below few sentences are given which are grammatically correct and meaningful. Connect them by the word given above the statements in the best possible way without changing the intended meaning. Choose the answers accordingly from the options to form a correct and coherent sentence(s).

9. Along with

- A) In the long-run, our biggest challenge is global climate change. As rivers dry up and chronic drought becomes the norm, the country needs policies in place to ensure the equitable distribution of water. Conservation policies will have to be put in place and the use of water prioritised.  
 B) Water is inefficiently diverted for agricultural use, where allocation is done on the basis of the size

of landholdings rather than need.

C) water, steps to check our burgeoning population will also be needed. In the political realm, the Indus Waters Treaty may need to be renegotiated and updated to better reflect the reality of climate change.

D) Even within the same communities, women are often dependent on men for access to safe drinking water

(A) Only C-D (B) Both D-C & A-B (C) Only D-A (D) Only A-C (E) No connection possible

10. In the following question four words are given of which two words are most nearly the same or opposite in meaning. Find the two words which are most nearly the same opposite in meaning:

- A. Compliment B. extract C. flak D. disclose  
 A. B and C B. A and B C. A and C  
 D. C and D E. None of the combination is correct

11. In these questions, out of the five alternatives, choose the one which best expresses the meaning of the given word or choose the word opposite or similar in meaning to the given word and mark. Obstruct

(A) obligation (B) clear (C) eyes (D) instruct (E) Structure

In the following sentences, there is a blank space, followed by some choices of words given in options. You have to determine which of these words fits well in all making them meaningful and grammatically correct. Word can be modified according to the tense of the sentence keeping the meaning of root word intact. If none of these words fit well, mark your answer as none of these.

12. A. There are many \_\_\_\_\_ built into the system to prevent fraud.  
 B. There are steps you can take to \_\_\_\_\_ against identity theft.  
 C. the charity called for tougher \_\_\_\_\_ to protect Britain's remaining natural forests  
 (a) home (b) protect (c) rights (d) safeguards (e) loops

13. A. High fever, nausea, and \_\_\_\_\_ sweating are some of the symptoms.  
 B. She was reprimanded for her \_\_\_\_\_ tardiness.  
 C. \_\_\_\_\_ alcohol consumption is a major public health problem in the United States.  
 (a) advance (b) display (c) equally (d) excessive (e) platform

The following statements have two blanks which are to be filled with the options given below. Each blank can be filled with more than one option. Find the combination/s which can most suitably complete the sentence without altering the meaning of the statement.

14. It has been promised that to control dust emissions from the construction activities, regular water sprinkling will be conducted. Water should be sprinkled by handheld sprays or with the help of automatic sprinkler \_\_\_\_\_. Furthermore, the dust emission should also be reduced through wet suppression. And if surplus water is not \_\_\_\_\_ to suppress dust at certain locations, the contractor should install barriers to protect the sensitive receptors and passing traffic.  
 (I) foundation (II) systems (III) retain (IV) available  
 (a) I-IV (b) II-IV (c) I-III (d) IV-III (e) No combination fits

15. Ever since demonetisation was introduced, the government has been making a strong push for the adoption of digital payment systems. With the government now trying to make Aadhaar the basis

for \_\_\_\_\_ a unified financial infrastructure, those without access to banking systems or Aadhaar will soon find themselves \_\_\_\_\_ from the economy.

(I) defining (II) over (III) achieving (IV) excluded  
 (a) I-III (b) II-I (c) IV-I (d) III-IV (e) No combination fits

16. Match the vocab words with their meaning

|   |           |   |            |
|---|-----------|---|------------|
| P | Collapse  | A | guess      |
| Q | Anecdote  | B | Determined |
| R | Speculate | C | story      |
| S | Tenacious | D | Fall       |

1) P-B 2) R-C 3) S-C 4) Q-D 5) S-B

17. Match the vocab words with their meaning

|   |           |   |              |
|---|-----------|---|--------------|
| P | Conceive  | A | determine    |
| Q | Accent    | B | Imagine      |
| R | Ascertain | C | Significance |
| S | Rigorous  | D | inflexible   |

1) P-C and S-D 2) R-A and Q-C 3) S-C and R-A 4) Q-C and P-D 5) S-B

18. Match the vocab words with their meaning

|   |            |   |            |
|---|------------|---|------------|
| P | Rival      | A | capacious  |
| Q | Bid        | B | Competitor |
| R | Commodious | C | fascinate  |
| S | Magnetize  | D | offer      |

1) P-B and S-C 2) R-A and Q-B 3) S-A 4) Q-C and P-D 5) S-B

19. Match the vocab words with their meaning

|   |            |   |         |
|---|------------|---|---------|
| P | Nadir      | A | bottom  |
| Q | Sparse     | B | skimpy  |
| R | Exhausted  | C | Fatigue |
| S | Felicitate | D | rejoice |

1) P-D and S-C 2) R-C and Q-D 3) S-D  
 4) Q-A and P-D 5) S-B

20. Match the vocab words with their meaning

|   |         |   |            |
|---|---------|---|------------|
| P | Shabby  | A | understood |
| Q | Tacit   | B | headlong   |
| R | Hasty   | C | petty      |
| S | Elegant | D | graceful   |

1) P-C and S-D 2) R-B and Q-D 3) S-C 4) Q-A and P-D 5) S-A

In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

The hope that private cryptocurrencies would become mainstream money suffered a setback last week. In his Budget speech, Finance Minister Arun Jaitley for the first time explicitly said that cryptocurrencies such as bitcoin are not legal forms of money in India and that the government would take steps to eliminate \_\_\_\_1 there \_\_\_\_ use. Mr. Jaitley is not the only politician worldwide to consider cryptocurrencies a \_\_\_\_2 preceding \_\_\_\_ to the status quo. Under the guise of protecting investors, governments in China and South Korea recently took steps to suppress the use of cryptocurrencies, thus adding to the extreme volatility of their price moves. Why are governments so keen to destroy private cryptocurrencies?

The reason is that these currencies \_\_\_\_3 determine \_\_\_\_ a significant threat to the massive economic power that national currencies, such as the rupee and dollar, provide their governments. Today every country's government has a legal monopoly over the \_\_\_\_4 reprinting \_\_\_\_ of the currency that its people use. This means that no entity other than the government \_\_\_\_5 is \_\_\_\_ create and sell currencies. The very point of legal tender laws is to ban anything other than the currency issued by the government from being used as a barrier of exchange.

21. What will come in blank 1.

(a)therefore (b)their (c)its (d)having to (e) given is correct

22. What will come in blank 2.

(a)danger (b)stagnant (c)call (d)remark (e) given is correct

23. What will come in blank 3.

(a)outsource (b)protect (c)pose (d)gave (e)given is correct

24. What will come in blank 4.

(a)maintenance (b)distributed (c)printing (d)issuance (e)given is correct

25. What will come in blank 5.

(a)might (b)may (c)need to be (d)will have (e) given is correct

## II Reading

Directions: Given below is a set of statements viz, (I), (II), (III), (IV) & (V). Read them to answer the questions that follow without changing the tone of the paragraph.

(I)There were other buildings in that area prior to Akbar's construction of a royal city named FatehpurSikri on the Vindhya hills.

(II) The word Fateh is of Arabic origin in Persian, meaning "victorious".

(III)The Mughal association with it began with the Battle of Khanwa between Babur and RanaSanga in 1527.

(IV) The victory in the battle consolidated the new Mughal dynasty in India.

(V)Babur's grandson Akbar \_\_\_\_ the construction of a royal city, which then served as the capital of the Mughal empire from 1571, on an isolated elevated, rocky ridge.

26. Which among the following sentences can REPLACE Statement (II) so that when all the given statements are combined sequentially they form a coherent paragraph?

(a)The name Sikri came from the SikarwarRajputs who controlled it briefly at the end of the 12th century.

(b)Given that the kitchens were nearby and it was cordoned off from the female quarters and lay outside the Haram Sara, this sounds feasible.

(c)My first visit to FatehpurSikri was as a teenager and the beauty and haunting loneliness of the majestic red buildings made me fall in love with them.

(d)The Archaeological Survey of India identifies this as DaftarKhana (record room), but Rezavi gives references from various contemporary sources such as Muntakhab-ut-Tawarikh (Badayuni), Akbarnama (AbulFazl) and Tabaqat-i-Akbari (Nizamuddin Ahmed) to prove that this is the IbadatKhana (house of worship) where Akbar met with scholars and priests of every religion.

(e)None of the above.

27. Which of the following sentences can be added between statement III and IV so that all statements form a coherent paragraph?

(a) After his victory, Babur constructed a garden there, which he named Bagh-e-Fath (victory garden)

(b) Building with beautiful red sandstone columns with delicate carvings running on three sides to form porticos around a small hall.

(c) The Archaeological Survey of India identifies this as DaftarKhana (record room), but Rezavi gives references from various contemporary sources such as Muntakhab-ut-Tawarikh (Badayuni), Akbarnama (AbulFazl) and Tabaqat-i-Akbari (Nizamuddin Ahmed) to prove that this is the IbadatKhana (house of worship).

(d) Where Akbar met with scholars and priests of every religion. The descriptions of the building with aiwans (porticos) given by these chroniclers, along with location, seem to indicate that this was where Akbar held philosophical debates on religion.

(e) None of these can be added.

28. Directions: Rearrange the following sentences to form a meaningful paragraph and then answer the questions that follow.

(A)The nature of threats is such that they continue to evolve all the time.

(B) Both the 2001 terror attack in New York and the November 2008 attack in Mumbai were one of a kind with few parallels at the time.

(C) Anticipating an attack of this nature remains in the area of an "intelligence gap" rather than an "intelligence failure".

(D) The real problem is that when dealing with terrorism and terror networks, no two situations in the actual world are identical.

(E) Most experts explain an intelligence gap as one denoting an absence of intelligence output while an intelligence failure is one where, based on available evidence, no warning was issued.

(F) Even while the IS has gained a great deal of prominence due to its brand of violence, other terror networks have continued to be no less active.

If the sentence (D), "The real problem is that when dealing with terrorism and terror networks, no two situations in the actual world are identical." is the first sentence of the paragraph, then which of the following sentences does not fit into the paragraph formed after rearranging other sentences?

(a) A (b) E (c) C (d) B (e) F

29. In Sentence V which of the following word will fill the bank.

(a) arranged (b) helped (c) implemented (d) ordered (e) destroyed

Rearrange the following five sentences in the proper sequence to form a meaningful paragraph from the options.

30. Which of the following Rearranged sentences form a meaningful paragraph.

(a) Duryodhana specially hated Bhima. Duryodhana was a wicked prince, he did not like that Pandavas should be loved and respected by the people of Hastinapur. Among the Pandavas, Bhima was extraordinarily strong and powerful. One day Bhima made Duryodhana fall from a tree from which Duryodhana was stealing fruits. This enraged Duryodhana so much that he began think of removing Bhima from his way.

(b) Among the Pandavas, Bhima was extraordinarily strong and powerful. Duryodhana specially hated Bhima. One day Bhima made Duryodhana fall from a tree from which Duryodhana was stealing fruits. Duryodhana was a wicked prince, he did not like that Pandavas should be loved and respected by the people of Hastinapur. This

enraged Duryodhana so much that he began think of removing Bhima from his way.

(c) Duryodhana was a wicked prince, he did not like that Pandavas should be loved and respected by the people of Hastinapur. This enraged Duryodhana so much that he began think of removing Bhima from his way. Among the Pandavas, Bhima was extraordinarily strong and powerful. Duryodhana specially hated Bhima. One day Bhima made Duryodhana fall from a tree from which Duryodhana was stealing fruits.

(d) One day Bhima made Duryodhana fall from a tree from which Duryodhana was stealing fruits. This enraged Duryodhana so much that he began think of removing Bhima from his way. Duryodhana was a wicked prince, he did not like that Pandavas should be loved and respected by the people of Hastinapur. Among the Pandavas, Bhima was extraordinarily strong and powerful. Duryodhana specially hated Bhima.

(e) Duryodhana was a wicked prince, he did not like that Pandavas should be loved and respected by the people of Hastinapur. Among the Pandavas, Bhima was extraordinarily strong and powerful. Duryodhana specially hated Bhima. One day Bhima made Duryodhana fall from a tree from which Duryodhana was stealing fruits. This enraged Duryodhana so much that he began think of removing Bhima from his way.

Direction: From the options given below, select the option which states the correct combination of incorrect/correct sentences.

31. I. It is impossible to believe that the government does not know how to handle the situation with sincerity and effective.  
 II. But it is also true that they are unable to decide the best among the two options available in front of them.  
 III. It seems that the perpetrators of the crime are smarter than brave.  
 IV. However, the police are of the opinion that they will be able to nab the criminals very soon.  
 A Both I and IV are correct    B Both I and II are correct  
 C Both II and III are correct    D All I, II and III are incorrect  
 E All I, II, III and IV are correct

32. I. The International Monetary Fund have decided that it will dole out subsidies to the developing countries in the present financial year.  
 II. The President of IMF announced it during the press interaction with the central bank governors last month.  
 III. The reason is to create the framework for the Trade Facilitation Agreement of the World Trade Organization to come into existence  
 IV. The main contention regarding that agreement was that the developing countries and the developed countries were not on the same page regarding the subsidies  
 A I and IV are incorrect    B II and III are incorrect  
 C Only I is incorrect    D Both II and IV are incorrect  
 E All I, II, III and IV are incorrect

33. I. The Central Bank will not decide the future course of action unless they are sure about the trend of inflation in the coming months.  
 II. The Monetary Policy Committee of the bank will only give a call regarding this after the inflation framework is published by the Government.  
 III. It is expected that there will be a rate cut in the next monetary policy review to control the inflation in the medium term.  
 IV. However, the negative effects of rate cut will also have to be taken into account in a country with mass unemployment.  
 A I and III are incorrect    B II and III are incorrect  
 C II and IV are correct    D I, II and III are correct  
 E None of the above

34. I. The Foreign Portfolio Investors are pumping in more and more funds in India due to the sluggish outlook of the developed countries.  
 II. The developed countries have reached a point of saturation in terms of domestic demand and exports are not that promising.  
 III. It is a proven fact now that domestic demand is the key factor for sustainable growth for any country.  
 IV. That is why emerging markets with more population are coming up as popular destinations for investment inflows by the investors from around the world.  
 A Both I and IV are incorrect    B II and III are incorrect  
 C I and III are incorrect    D II and IV are incorrect  
 E I, II, III and IV are correct

35. I. It was alleged that the Police were prevented from to do their duties.  
 II. The public were so angry with the incident that they did not allow the Police entering the crime scene.  
 III. It is because of a series of such incidents taking place in the same area in the last couple of months and the failure of the Police to arrest the miscreants.  
 IV. The media is also giving constant pressure on the police to crack the case immediately.  
 A I and IV are correct    B II and III are correct  
 C II and IV are correct    D I, II, III and IV are incorrect  
 E I and II are incorrect

Paragraph I: Direct plans of mutual funds have become a big hit due to low charges, but an uber low cost instrument remains largely undiscovered by investors. The fund management charges of NPS Tier II plans are barely 1% of the cost of the average direct plan. A direct mutual fund charges 0.75-1.5% - or Rs.750-1500 per year – for managing an investment of one lakh, compared with Rs.1500-2500 charged by a regular mutual fund. But NPS tier II plans charge only 0.01% - or Rs10 per year – for managing an investment of 1 lakh.

Paragraph II: The ultra-low costs mean higher returns for investors. NPS Tier II plans have outperformed mutual fund of the same vintage by 70-200 basis points across different time frames. The corporate bond funds have delivered average compounded returns of 10.91% in the past 5 years compared to 8.89% churned out by long term income funds. The difference in the fund management charges of mutual funds and NPS is the margin of outperformance between the two products. Despite the obvious advantage of higher returns, very few investors have put money in NPS Tier II plans. The total AUM of the NPS is a tiny fraction of the estimated RS. 5,00,000 crore invested in direct mutual funds. Why have investors ignored this low cost haven that offers higher returns? Much of this has to do with the ease of investment. Till last year, investing in NPS was an uphill task. The NPS also did not have a favorable tax treatment. Since Tier II accounts can be opened only if you have a Tier I account, very few cared to enter this space. The other problem is ambiguity over taxation. There is no clarity on tax treatment of Tier II NPS returns and it is very subjective.

Paragraph III: However, while NPS Tier II plans can replace debt funds in your portfolio, they may not be able to match the returns generated by actively managing diversified equity funds. NPS has the lowest fund management charges, but there are also ancillary charges. There will be 0.25% entry load on the invested amount, subject to a maximum of Rs.25. if you invest online, there are gateway charges. Any other transaction like a switch, withdrawal or a request for a statement will cost you. It is suitable only for higher value transactions where the impact will be minimal.



Paragraph IV: Meanwhile NPS funds continue to churn out double digit returns for investors. The bond rally that began in Feb last year has seen long term bond yields decline by almost 175 basis points. With their portfolios lined with long term bonds, the government bond funds of the NPS have shot up, while equity funds have benefitted from the stock market rally. Central and state government employees covered by the NPS have earned up to 11.46% in the past three years. Meanwhile in NPS Tier I, ICICI Prudential Pension Fund remains the best long term performer, Kotak Pension Fund and UTI retirement solutions have emerged on top in the near term. If we look at one year returns, the bond rally has rewarded ultra-safe investors who stayed away from equities. A balanced approach or a conservative allocation that takes some exposure to stocks can yield better results.

36. Q-Select the best possible Synonym of the word churn as per the Passage?

A- Shock, B- Moved, C- Encouraged, D- Generated, E- Mixed

37. Q- What are the reasons for an NPS being an uphill task?

A- Compulsory Tier 1 account B, Subjective return Treatment C, Tax ambiguity.

A- A and B, B- B and C, C- A and C, D- All, E- None.

38. Q- Which is the best near term fund according to the passage?

A- ICICI, B- Kotak, C- Sun Life, D- All, E-None.

39. Q - Select the synonym for the word Haven as per the passage.

A- Rest, B- Safely, C- Demand, D- Sanctuary, E- None of the Above.

40. Q - What would be a suitable title for the passage?

A- NPS tier 1 vs Tier 2, B- NPS Return, C- Charges of NPS, D- Facts about NPS, E- None of the above.

41. Q- Synonym of the word Uphill as per the passage.

A- Upward, B- Towards, C- Hectic, D- Tiring, E- Difficult.

42. Q- What will be the effects of withdrawing money from diversified funds and investing it all in NPS?

A- Transactions will be difficult, B- Less charge, C- More returns, D- Conservative approach.

A- A,B, B- B,C, C- Only B, D- Only C, E- None.

Paragraph I: The Supreme Court's ban on holding Jallikattu, a bull-taming sport, is causing grievous disappointment and anger to some very vocal sections of people of Tamil Nadu who were preparing to organise the sport considered by them as an indispensable part of Pongal festival. In fact, there are reports of some having defied the ban in a few villages, with authorities looking the other way.

Paragraph II: Interestingly, a rare unity is being witnessed today among principal political parties in the State – the AIADMK, DMK, BJP, PMK, DMDK, Nam Tamilar and many other small parties – in favour of reviving this rural sport in danger of extinction. There is a demand that the government issue an Ordinance to bypass the Court stay, which is a big blow to the Union Ministry of Environment and Forests (MoEF), which had lifted the ban on this sport imposed by the Supreme Court in 2014. The recent stay was granted on a petition led by the Animal Welfare Board of India (AWBI), the Federation of Indian Animal Protection Organisations (FIAPO), People for Ethical Treatment of Animals (PETA), and Compassion Unlimited Plus Action (CUPA) against the notification of the Ministry removing bulls from the list of performing animals under the Prevention of Cruelty to

Animals (PCA) Act. It was but reiteration of the stand taken by the Supreme Court in 2014 to affirm the supremacy of the Constitutional principle enshrined in Article 51A (g) and (h), and to protect the rights and welfare of animals.

Paragraph III: Jallikattu is an age-old traditional bull-taming sport event common in villages in Tamil Nadu, especially in the southern districts. Its history is traced with pride to medieval kingdoms and even to ancient period to emphasize its antiquity and its status as a cultural heritage. From olden days, it is a game played between men and bulls to bring the latter under control. The combat displays courage and strength of men and the game itself is dubbed as "game of valour of Tamilians". The spirit of the game has been sustained over centuries and stories of women opting to marry the winners are heard. Even in some recent films in which top stars have acted, scenes of Jallikattu have been included to highlight the heroism of the hero. The sport has almost become an industry in which bull owners have a high stake. Special and rare breeds of bulls are raised and trained to make the sport more and more exciting. Prizes given to the winners have also increased manifold and are in the form of cash and kind and include gold coins, modern gadgets, and household articles. Following the Supreme Court's ban order on Jallikattu, a Division bench of the Kerala High Court declared that this would be applicable to certain games like Kannupootu, Kaalapootu, and Maramadi played in the State with animal participants. But, the truth remains that the more vigorous the combat meaning the more violent the bulls, the greater is the excitement in the game.

Paragraph IV: Rights activists have reason to condemn this game as one not exhibiting 'valour' in the proper sense of the term, but a crude combat between an animal and men resembling the cruel games played in the ancient Roman empire. Other opponents include the Communist parties and a section of the Congress. Strict regulations and vigilance imposed in 2007 over Jallikattu events and enacted as a law in 2009 are said to have eliminated ill treatment of animals. But, this argument is rejected by anti-Jallikattu groups. The game, by its very structure and conduct, brings out the "animal spirit" not only in players and bull owners, but also in the spectators watching and encouraging the combatants. To stick to Jallikattu as if it is a primary aspect of Tamil culture and traditions is a kind of superstition. In a way, it is degrading the refinement of Tamil cultural traditions. It is high time that the Indian society should learn to break the back of the beast. They must grasp the ban on Jallikattu as a step towards humanizing sports – a cause worth pursuing.

43. Q- What is the main idea of the passage?

A- Jallikattu, a game of valour. B- PETA condemns Jallikattu

C- Bulls and Men :- An ancient tradition.

D- Opposition supports banning Jallikattu, E- Banning of Jallikattu and consequent reactions.

44. Q- Select the synonym of the word Grievous as per the passage.

A- Terrible, B- Acceptable, C- Fortunate, D- Lucky, E- Delightful.

45. Q- What do the political parties want the government to pass, to bypass the stay on Jallikattu?

A- Law, B- Ordinance, C- By law, D- Bill, E- Notification.

46. Q- Why is the alliance between principal political parties over revoking the ban on Jallikattu is being called 'a rare unity'.

A- There are only few people in the alliance.

B- As the political parties agreeing to each other.

C- Since principle political parties never have alliances through marriages.

D- as any unity in todays world is an unconventional concept.  
 E- Since most principle political parties generally never agree on anything and an exception is being seen in this case making it a unique occurrence.

47. Q- Antonym of the word refinement as per the passage.  
 A- cultural , B- Sophistication, C- Pollution, D- Crudeness, E- Dirty.

48. Q- Which animals are used in the game of Jallikatu?  
 A- Bulls, B- Cows, C- Hens, D- Elephants, E - Goats.

49. Q- From the given options choose the correct meaning of the idiom " Break the back of the Beast" as used in the given passage.  
 A- To overwork an animal. B- To fail at a great task. C- To overcome a major difficulty. D- To pursue ones dream. E- To torture an animal by breaking its back.

50. Q-Find the meaning of the word vigilance used in the passage above?  
 A- Culture, B- Sophisticated, C- Alertness, D- Crudeness, E- Strict.

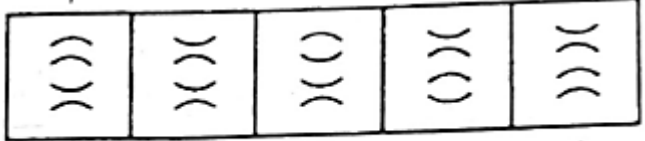
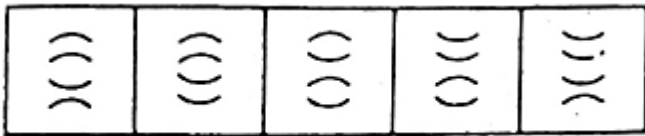
### III Visual

25 questions 15 – 20 minutes

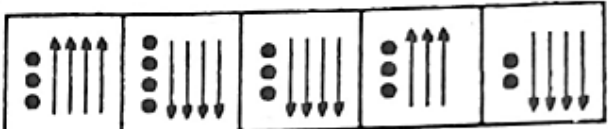
Find the odd man out of the following questions.

Fill in the blanks

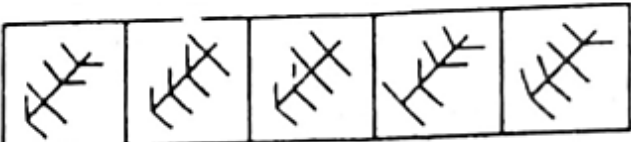
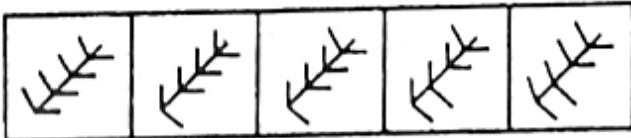
Find the next time in the series below:



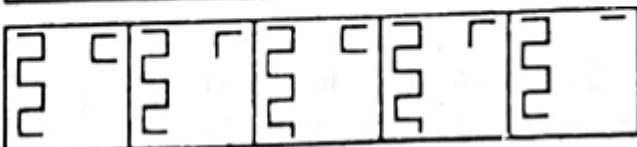
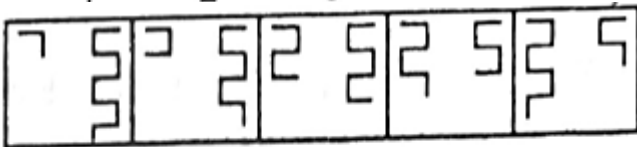
1 2 3 4 5



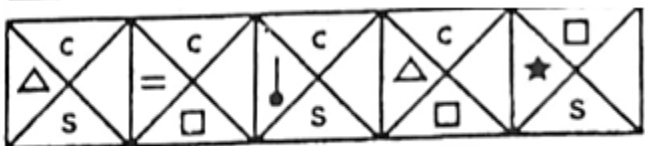
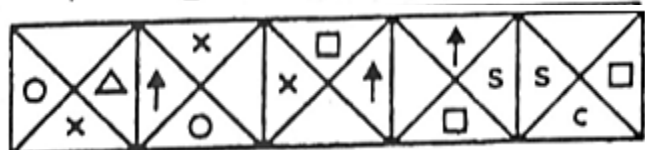
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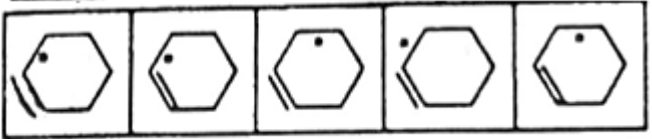
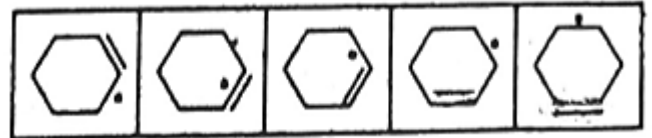
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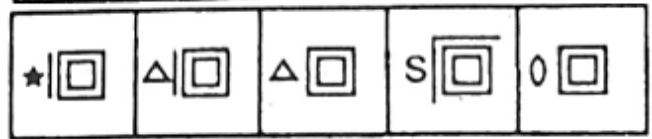
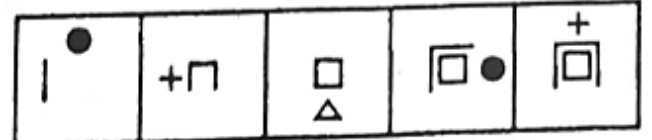
1 2 3 4 5



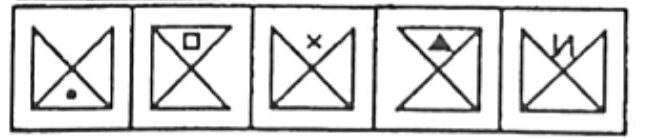
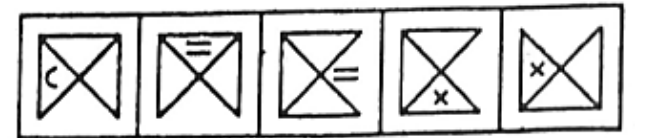
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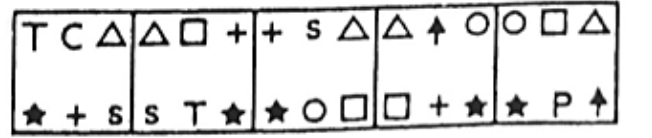
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1 2 3 4 5



1 2 3 4 5



1 2 3 4 5



|        |        |       |     |     |
|--------|--------|-------|-----|-----|
| ★<br>S | S<br>★ | ★ S = | = ★ | = ★ |
| c      | c      | =     | c   | S   |
| 1      | 2      | 3     | 4   | 5   |

|     |     |     |       |       |
|-----|-----|-----|-------|-------|
| ↑ x | x ↑ | x   | ↑ =   | ↑ = x |
| ○   | ○   | ↑ = | ↑ = x | ↑ = x |
| 1   | 2   | 3   | 4     | 5     |

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| ○ □ x | ↑ △ ○ | c △ ○ | △ ○ = | △ ○ □ |
| △ =   | c □   | ↑ □   | s x   | s x   |
| s ↑   | = x   | = x   | ↑ =   | = ↑   |
| 1     | 2     | 3     | 4     | 5     |

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| T ↓ | ↓ T | ★ S | S ★ | O c |
| v P | P s | ↓ T | T c | s ★ |
| 1   | 2   | 3   | 4   | 5   |

|   |   |   |   |   |
|---|---|---|---|---|
| c | o | c | o | c |
| ★ | s | ★ | △ | ★ |
| 1 | 2 | 3 | 4 | 5 |

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| △ + | ○ = | □ □ | ○   | S ★ |
| ○ = | △   | s c | ○ ○ | c   |
| 1   | 2   | 3   | 4   | 5   |

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| ○ = | s ↑ | ○ ↑ | ○ ↑ | c ↑ |
| c   | c   | c   | ★   | ★   |
| 1   | 2   | 3   | 4   | 5   |

### IV. Logic

Study the given information carefully to answer the given questions.

In a certain code language,

'committee to analysis exams' is written as 'es fr re pt',

'analysis gathering in evening' is written as 'ch ba mo fr',

'gathering to nominate persons' is written as 're dv ch gi' and

'nominate chairman in analysis' is written as 'mo gi fr yu'.

1. What is the code for 'evening' in the given code language?

- (a) mo (b) yu (c) ch (d) Other than those given (e) ba

2. In the given code language, what does the code 'pt' stand for?

- (a) nominate (b) Either 'exams' or 'committee' (c) evening  
(d) analysis (e) Either 'for' or 'persons'

3. What may be the code for 'analysis call' in the given code language?

- (a) dv iq (b) iq gi (c) iq fr (d) gi es (e) fr dv

Study the following information carefully and answer the questions given below:

\$ F 3 6 N @ 9 K T Q 5 C % 8 B # 7 D S \* H 4 W L

STEP I- The numbers which are immediately preceded by symbol and immediately followed by an alphabet are arranged in the end of the series in increasing order. (Arranged immediate after L)

STEP II- The odd numbers which are immediately preceded by an alphabet interchange their position with respect to the alphabet just before it.

STEP III- The alphabets which are immediately followed by a symbol are arranged in alphabetical order between H and 4 of step II.

Note: (STEP II is applied after STEP I and STEP III is applied after STEP II)

4. What is the sum of number which is sixth from right end in step I and eight from left end in step III?

- (a) 8 (b) 7 (c) 9 (d) 11 (e) 13

5. How many alphabets are immediately preceded and immediately followed by numbers in step II?

- (a) one (b) two (c) three (d) four (e) five

Study the following information and answer the questions given below:

There are AB axis in such a way that A is in north and B is in south direction. There is XY axis in such a way that X is in west direction and Y is in east direction. AB axis and XY axis intersect at a point Q in such a way that AQ is 13m, QB is 15m, QX is 10m, QY is 22 m.

Sharvan starts walking from point X and walks 18m in south direction and then he takes a turn to his left and walks 30m. Siddharth starts walking from point A and walks 20m in east direction. Dipendra starts walking from point Y and walks 3m in north direction and then he takes a turn to his left and walks 2m and again he takes a turn to his left and walks 18m.

6. Point B is in which direction with respect to Dipendra's current position?

- (a) south (b) south-east (c) south-west (d) west (e) north-west

7. Point Y is in which direction with respect to Sharvan's current position?  
(a) north (b) east (c) north-east (d) north-west (e) south

8. What is distance between Siddharth's current position and Sharvan's current position?  
(a) 31m (b) 33m (c) 11m (d) 20m (e) 25m

Study the information given below carefully and answer the questions that follow:

Neelu started her journey from 'A' and walked 10 km eastwards to reach 'B', then she turned to her left and walked 3 km to reach 'C' and then she turned to her left again and walked 12 km to reach 'D'. Again she turned to her left and walked 3 km to reach 'E'.

9. How far is she from her starting point ?  
(a) 2 km (b) 3 km (c) 1 km (d) 2.5 km (e) None of these

10. In which direction is point 'E' from point 'A' ?  
(a) East (b) West (c) North (d) South (e) None of these

Study the given information relating to Machine Input and Output, then answer the following questions

Input: 64 57 mxtj 12 osvr 27 jmno 46 vklp 35 rmosprjm  
Step I: lzqn 114 64 12 osvr 27 jmno 46 vklp 35 rmosprjm  
Step II: otgr 160 lzqn 114 12 osvr 27 jmno 46 vklp 35 rmos  
Step III: ioks 105 otgr 160 lzqn 114 12 osvr 27 46 vklp rmos  
Step IV: umit 161 ioks 105 otgr 160 lzqn 114 12 osvr 27 rmos  
Step V: nusv 108 umit 161 ioks 105 otgr 160 lzqn 114 12 rmos  
Step VI: qolw 54 nusv 108 umit 161 ioks 105 otgr 160 lzqn 114  
Step VI is the final step for above arrangement  
Now answer the following questions based on the Input given below.

Input: 62 59 jnop 16 itrs 29 smkj 44 xkov 33 mnmngjrt

11. In Step IV, what is the difference between the elements which are 2nd from the left end and 7th element from the right end?  
1. 0 2. 1 3. 36 4. 55 5. Cannot be determined

12. Which element will be 4th to the right of the 4th element from the left end of the row in step V?  
1. 154 2. lpjr 3. 155 4. rohn 5. None

13. Which element present exactly between 155 and 118 in Step III?  
1. rohn 2. rmhn 3. rmnn 4. romn 5. None

Study the given information and answer the questions:

When a number arrangement machine is given an input line of numbers, it arranges them following a particular rule. The following is an illustration of an input and its rearrangement.

|               |      |      |     |     |     |      |     |    |
|---------------|------|------|-----|-----|-----|------|-----|----|
| <b>Input-</b> | 65   | 18   | 41  | 53  | 72  | 34   | 89  | 26 |
| <b>Step1-</b> | 195  | 36   | 123 | 159 | 144 | 68   | 267 | 52 |
| <b>Step2-</b> | 159  | 159  | 36  | 303 | 76  | 335  | 215 |    |
| <b>Step3-</b> | 45   | 45   | 18  | 0   | 42  | 45   | 10  |    |
| <b>Step4-</b> | 22.5 | 22.5 | 9   | 0   | 21  | 22.5 | 5   |    |

Step IV, is the last step of the above arrangement as the intended arrangement is obtained.

As per the rules followed in the given steps find out the appropriate steps for the given input:

Input: 25 22 93 56 17 74 39

14. What is the sum of the numbers at both the ends in step III of the given arrangement? (a) 36 (b) 63 (c) 60 (d) 123 (e) None of the above

15. Which element is 2nd to the right of the one which is 4th to the left element in step I? (a) 112 (b) 44 (c) 148 (d) 75 (e) None of these

Directions. These questions are based on the following information.

'P@Q' means 'Q is the mother of P'

'P\$Q' means 'Q is the husband of P'

'P#Q' means 'Q is the sister of P'

'P\*Q' means 'Q is the son of P'.

16. If 'P\$L\*K#N' then how is K related with P?  
(a) son (b) daughter (c) husband (d) wife (e) None

17. If 'Z#P\$\*K#N' then there are how many male members in the family?  
(a) one (b) two (c) three (d) four (e) Cannot be determined

Directions: These questions are based on the following information.

'P@Q' means 'P is the mother of Q'

'P\$Q' means 'P is the husband of Q'

'P#Q' means 'P is the sister of Q'

'P\*Q' means 'P is the son of Q'

18. O \* X @ Z \_ Y \$ M. Which symbol will come at the empty place so that X is mother in law of M is definitely true?  
(a)\* (b)\$ (c) # (d) @ (e) None of these

19. C # A \_ D \$ B # F. Which symbol will come at the empty place so that C is daughter of B is definitely true?  
(a)\* (b)\$ (c) # (d) @ (e) None of these

20. Z is the son of A. D is the son of B. Z is married to C. B is C's mother' then how is B related to Z?  
(a) Brother (b) Uncle (c) Father-in-law (d) mother-in-law (e) None

Data Sufficiency

In each of the following problems, there is one question and three statements I, II and III given below the question. You have to decide whether the data given in the statements is sufficient to answer the question. Read all the statements carefully and find which of the statements is/are sufficient to answer the given question. Choose the correct alternative in each question.

21. Question: In a certain code, 'XYZ' means 'We are friends'. Which letter stands for 'We' ?

Statements:

'PYN' means 'They are classmates'.

'ZMS' means 'We love them'.

'PX' means 'Hello friends',

A.Only II B.Only I and III C.All I, II and III D.Either I only or II only  
E.None of these

22. Question: Among P, Q, R, S and T, Q is the second tallest and S is immediate taller than the shortest. Who among them is in the middle when they stand in the order of their heights ?

Statements:

I. T is not the shortest.

II. R is taller than S but shorter than Q.

III. P ranks third in height above S when all are arranged in the order of height.

A. Only I and II B. Either II only or I and III only C. Only II D. Only II and III E. None of these

23. Question: Four subjects - Physics, Chemistry, Mathematics and Biology - were taught in four consecutive periods of one hour each starting from 8.00 a.m. At what time was the Chemistry period scheduled ?

Statements:

I. Mathematics period ended at 10.00 a.m., which was preceded by Biology.

II. Physics was scheduled in the last period.

III. Mathematics period was immediately followed by Chemistry.

A. Only I B. Either I only or II only C. Only II D. Only II and III E. Only I and either II or III

24. Question: What is the total monthly salary of Vasu ?

Statements:

I. Vasu's basic salary is Rs 100 more than Rajan's salary who also serves in Vasu's company.

II. Other allowances drawn by Rajan besides his basic salary are Rs 2000 per month which is Rs 50 less than Vasu's salary.

III. Rajan's basic salary is Rs 1550 per month,

A. Only II B. Only II and III C. Only I and II D. Only I and III E. All I, II and III

25. Question: Who is the tallest among six boys P, T, N, D, Q and R ?

Statements:

I. P is taller than D and N but not-as tall as T.

II. R is taller than Q but not as tall as T.

III. Q is not taller than T and R.

A. Only I and II B. Only II and III C. Only I and III D. All I, II and III E. Only I and either II or III

Symbols

26. In which of these expressions ' $S > V$ ' be definitely false?

A.  $S > P \geq Q = G \geq R > V$  B.  $P < A \leq S \leq T; V \geq O > T$

C.  $V \leq A \leq L = R < S$  D.  $S > C > F \leq H; V < F$

E.  $S > T = O \geq P; V < J = P$

27. Which of the following symbols should be placed in the blank spaces respectively (in the same order from left to right) in order to complete the given expression in such a manner that both ' $D > S$ ' as well as ' $E \leq B$ ' definitely holds true? B \_ A \_ S \_ E \_ D

A.  $>, \geq, <, =$  B.  $>, >, \geq, <$  C.  $\geq, \geq, \geq, \leq$

D.  $\geq, =, \geq, <$  E. Other than those given as options

28. In Which of the following expressions does the expression ' $L = T$ ' to definitely hold true?

A.  $K \geq L \leq R = P < S \leq T$  B.  $U \geq T \geq M = F \leq A \geq L$

C.  $L \geq C > Q \geq B = N \leq T$  D.  $G \geq L = A < B \leq S \leq T$

E.  $T \geq E = G \geq W = Y \geq L$

29. Which of the following expressions is true if the expression  $P < T \leq Q > S > M \geq W$  is definitely true?

A.  $W \leq P$  B.  $S < P$  C.  $M > P$  D.  $W < Q$  E.  $T \leq M$

30. Statements:  $Y \leq K < D = S; D < V < O; G \geq D < Q$

Conclusions: i.  $G > V$ , ii.  $Y < Q$

A. Only I is true B. Only II is true C. Either I or II true

D. Neither I nor II is true E. Both I and II are true

## V. Puzzles

Ten Cetking students are sitting in two parallel rows of six seats each. One seat is vacant in each row. M, N, O, P and Q are sitting in row-1 facing South. D, E, F, G and H are facing North. Each likes the different brand of Shirts i.e. Arrow, Wrangler, USPA, Lee, Van Heusan, John Players, Dennis Lingo, Highlander, Peter England and John Miller.

- G sits third to the right of F and likes Lee.
- Only two people sit between E and the vacant seat.
- E does not like Van Heusan or USPA.
- Q is not an immediate neighbour of O.
- N likes John Miller.
- The one who likes USPA faces the one who likes Highlander.
- The one who likes USPA sits opposite to the one who sits third right of the person who sits opposite to G.
- is not an immediate neighbour of P.
- H, who likes neither Van Heusan nor John Players, does not face the vacant seat.
- Neither G nor F sit at any of the extreme ends of the row. P faces F.
- Vacant seats are not opposite to each other and not at corners.
- Two seats are there between O and N, who sits third right of the one who likes Dennis Lingo.
- The one who likes Peter England faces the one who likes Lee, who sits to the right of person liking Van Heusan.
- The persons who like the Arrow and Highlander are adjacent to each other.
- Vacant seat of row - 1 is not an immediate neighbour of P.
- E sits at one of the extreme ends of the row.
- F does not like Arrow and Highlander.
- Vacant seat of row-1 does not face G. O is in the corner.

1. In the given arrangement, if two people come and sit to the immediate left of E, how many people will sit between D and E?

A. Two B. Three C. Four D. More than four E. One

Answer

Answer - B. Three

2. Who amongst the following sits third to the right of F?

A. The one who likes Lee B. E

C. Other than those given as options D. D

E. The one who likes Van Heusan

Answer

Answer - A. The one who likes Lee

3.

Which of the following faces the vacant seat of Row - 1?

A. The one who likes Lee B. E

C. Other than those given as options D. F

E. The one who likes Van Heusan

Answer

Answer - E. The one who likes Van Heusan

4. Four of the following five are alike in a certain way based upon their seating arrangement and so form a group. Which of the following does not belong to the group?

A. QE B. ND C. HO D. PG E. FP

Answer

Answer – E. FP

5. Who amongst the following sits at the extreme end of the row?

A. Q, E B. N, D C. P, G D. F, P E. Other than those given as options

Answer

Answer – A. Q, E

Less than 10 Cetking students are sitting around a circular table facing the centre. Each one of them likes different brands of watch.

- P sits third to the right of the person who likes Matrix.
- P does not like Fastrack.
- T is not an immediate neighbour of W.
- R sits on the immediate right of the person who likes Fastrack and immediate left of Q.
- Neither P nor W likes Casio or a Titan.
- The person who likes Casio is not an immediate neighbour of R who likes Matrix.
- The person who likes Sonata sits second to the left of T.
- The person who likes Sonata is an immediate neighbour of the both persons who like Timex and Tissot.
- Person who likes Tissot sits third to the right of Q. Q does not like Casio.
- U likes Timex but is not an immediate neighbour of P.
- V is immediate right of the person who likes Titan but not Sonata.
- Only two people sit between the person who likes Matrix and W, who like Sonata.
- The persons who like Casio and the Titan are immediate neighbours of each other.
- S is to the right of the person wearing Laurels.

6. Who amongst the following sits third to the left of T?

A. P B. Q C. R D. S E. U

7. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which is the one that does not belong to that group?

A. U–Fastrack B. V–LAURELS C. S–Sonata D. P–Tissot E. Q–Matrix

8. Who amongst the following likes LAURELS?

A. P B. Q C. R D. S E. T

9. Which of the following is true with respect to the given seating arrangement?

- A. U and S are immediate neighbours of each other
- B. V sits second to right of S
- C. The persons who like Timex and Titan are immediate neighbours of each other
- D. T sits to the immediate left of the person who likes Matrix
- E. None of the given statements is true

10.

Which of the following brands is liked by Q?

A. Matrix B. Timex C. Titan D. Tissot E. Sonata

Eight people A, B, C, D, E, F, G and H are sitting in a straight line with equal distances between each other, but not necessarily in the same order. Some of them are facing North and some of them are facing south. All have different ages 14, 16, 17, 19, 21, 23, 26, 31, but not in same order.

Only three people sit between A and G. Three people sit between B and 16 yr old. Three persons sit between 26 yr and C. The difference of ages neighbors of C is 15. E sits exactly between A and G. H sits third to the right of E. 23 yr old sits immediate left of B. B is an immediate neighbour of H and faces south. C is not the youngest sits

second to the right of F. C is not an immediate neighbour of G. The difference of ages of neighbours of G is 7. Immediate neighbour of G face opposite directions (i.e. if one neighbour faces North then the other neighbour faces south and Vice-Versa). A and D face the same direction as E (i.e if E faces north then A and D also face North and Vice-Versa). Both the immediate neighbours of E face south. A sits at one of the extreme ends of the line. B is elder than C.

11. How old is B?

A. 21 yr old B. C C. 23 yr old D. E E. None of these

12. In the given arrangement, if three people come and sit to the immediate left of E, how many people will sit between F and C?

A. Two B. Three C. Four D. More than four E. One

13. How many people are sitting between A and F?

A. Two B. Three C. Four D. More than four E. One

14. Four of the following five are alike in a certain way based upon their seating arrangement and so form a group. Which of the following does not belong to the group?

A. EC B. AF C. BF D. CG E. DG

15. Who amongst the following sits at the extreme end of the row?

A. 21 yr old B. C C. 23 yr old D. E E. None of these

Seven Cetking students P, Q, R, S, T, U and V live on separate floors of a 7 floor building. Ground floor is numbered 1, first floor is numbered. 2 and so on until the topmost floor is numbered 7. Each one of these is travelling to a different city, viz Denmark, Madagascar, Indonesia, China, Kazakhstan, Belgium and Thailand but not necessarily in the same order. Only three people live above the floor on which P lives. Only one person lives between P and the one travelling to Belgium. U lives immediately below the one travelling to Madagascar. The one travelling to Madagascar lives on an even-numbered floor. Only three people live between the ones travelling to Belgium and Indonesia. T lives immediately above R. T is not travelling to Indonesia. Only two people live between Q and the one travelling to Kazakhstan. The one travelling to Kazakhstan lives below the floor on which Q lives. The one travelling to Denmark does not live immediately above or immediately below Q. S does not live immediately above or immediately below P. V does not travel to China.

16. Which of the following is true with respect to V as per the given information?

- 1) The one who lives immediately below V is travelling to Madagascar
- 2) V lives on floor no. 7
- 3) V lives immediately below T
- 4) V lives on the lowermost floor
- 5) V is travelling to Belgium

17. Who among the following lives on floor no. 3?

1) China 2) Kazakhstan 3) R 4) V 5) T

18. Who lives on the floor immediately above T?

1) P 2) Q 3) S 4) V 5) U

19. To which of the following cities is S travelling?

1) Madagascar 2) Belgium 3) Indonesia 4) Kazakhstan 5) China

20. How many people live between the floors on which S and the one travelling to Madagascar live?

1) None 2) Two 3) One 4) More than three 5) Three



Study the following information carefully to answer the given questions

Ten students namely viz A, B, C, D, E, F, G, H, I and J of ten different colleges, having seminar on five different months of the same year with 2 in each month. Each student have seminar at two different Saturdays of a month, i.e First Saturday and Third Saturday. Each student like different colours, Persons who like Red, Green, Pink, Black and White have seminar on first Saturday. Persons who like Brown, Yellow, Purple, Blue and Grey have seminar on Third Saturday.

1. I have a seminar in March on first Saturday.
2. The number of people who have seminar between G and D is same as the number of people who have seminar between C and H.
3. Persons who like Red and Blue have seminar on January and the persons who like White and Grey have Seminar on December.
4. B has a seminar immediately before I. I does not have seminar on any of the days before G.
5. The one who has seminar on first Saturday immediately before J.
6. H does not have seminar at on Third Saturday.
7. D has a seminar is immediately after the month of one who has seminar on January.
8. F does not have seminar at on Third Saturday.
9. D does not has seminar on any one of the months after E.
10. Only three people have seminar between G and E.
11. Persons who like Pink and Purple went to seminar neither on March nor August.
12. Neither E nor G does not have seminar on December.
13. Only two people have seminar between F and J.
14. F does not has seminar on any of the days after H.
15. Persons who like Green and Yellow does not have seminar on August.

21. How many persons have seminar at Third Saturday between G and H?  
A. 5 B. 6 C. 2 D. 4 E. None of these.

22. Who among the following person has seminar on first Saturday?  
A. A B. B C. C D. D E. E

23. Four among the following form a group in a certain way. Which of the following does not belong to Group?  
A. G – March B. I – June C. F – December  
D. G – June E. E – August

24. Who among the following likes Grey Colour?  
A. I B. J C. F D. D E. C

25. Who among the following have seminar on August?  
A. I, E B. H, J C. F, A D. D, E E. E, C

26. A, B, C, D and E are sitting on a bench all of them facing north or south. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting?  
A. Between B and D B. Between B and C  
C. Between E and D D. Between C and E  
E. None of these

27. In an Exhibition seven cars of different companies – Cadillac, Ambassador, Fiat, Maruti, Mercedes, Bedford and Fargo are standing facing to east such that Cadillac is next to right of Fargo. Fargo is fourth to the right of Fiat. Maruti car is between Ambassador and

Bedford. Fiat which is third to the left of Ambassador and its at one end. Which of the cars are on both the sides of Cadillac?

- A. Ambassador and Maruti B. Maruti and Fiat  
C. Fargo and Mercedes D. Ambassador and Fargo  
E. None of these

28. Six friends are sitting in a circle and are facing the centre of the circle. Deepa is between Prakash and Pankaj. Priti is between Mukesh and Lalit. Prakash and Mukesh are opposite to each other. Lalit is not in the left of Prakash. Who is sitting right to Prakash?  
A. Mukesh B. Deepa C. Pankaj D. Lalit E. None of these

29. Five girls are sitting on a bench to be photographed. Mary is to the right of Rani. Seema is to the immediate left of Rani and to the right of Bindu. Reeta is between Rani and Mary. Who is sitting immediate right to Reeta?  
A. Bindu B. Rani C. Mary D. Seema E. None of these

30. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the immediate left of A and right of Z. Who is to the right of P?  
A. A B. X C. S D. Z E. None of these

## VI. Verbal Reasoning

Instructions for 1 and 2

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

1. Statements:

- I. Large number of people living in the low-lying areas has been evacuated during the last few days to safer places.  
II. The Government has rushed in relief supplies to the people living in the affected areas.

2. Statements:

- I. It is the aim of the city's civic authority to get the air pollution reduced by 20% in the next two months.  
II. The number of asthma cases in the city is constantly increasing.

3. Statement: Four districts in state A have been experiencing severe drought for the last three years resulting into exodus of people from these districts.

Courses of Action:

- I. The government should immediately start food for work program in the district to put a halt to the Exodus.  
II. The government should make effort to provide drinking / potable water to these districts.  
III. Government should start investing in projects for effective use of resources during draught time.  
A. Only I and II follows  
B. Only II follows  
C. Either I or II follows  
D. I and II and III follows  
E. All I II and III follow

These questions are based on statement given below and the sentences labelled (A), (B), (C) and (D) as given below.

The cases of food poisoning due to consumption of liquor in rural areas are far greater than such cases in urban areas. Hence it can be concluded that the liquor supplied in rural areas is of low quality than that supplied in urban areas.

- (A) The prices of liquor are lower in rural areas than in urban areas.
- (B) Percentage of people consuming liquor is more in rural areas than in urban areas.
- (C) There are many unauthorized spurious liquor shops in the rural areas.
- (D) Number of people suffering from food poisoning due to consumption of liquor as a percentage of people who consume liquor is almost equal for both urban areas and rural areas.

4. Which of the above statements numbered (B), (C) and (D) if true will most weaken the given argument?

- (1) Only D (2) Both B and D (3) Only C (4) Only B (5) None

5. Which of the above statements numbered (A), (B), (C) and (D) if true will strengthen the given argument?

- (1) Only A (2) Only B (3) Only C (4) Both A & D (5) A, C & D

6. The district administration has issued a circular to all the farmers under its jurisdiction advising them for not using pesticides indiscriminately as it may pollute the ground water. Which of the following can be assumed from the given statement?

- (1) People may stop using ground water if the farmers continue to use pesticides indiscriminately.
- (2) The polluted ground water can cause health problems.
- (3) Farmers may refrain from using pesticides indiscriminately.
- (4) People in the district are majorly dependent on ground water for drinking use.
- (5) None of these

7. The number of people diagnosed with dengue fever (which is contracted from the bite of an infected mosquito) in North India this year is twice the number diagnosed last year. The authorities have concluded that measures to control the mosquito population have failed in this region. Which of the above statements if true will weaken the given argument?

- (A) An effective diagnostic test was introduced about nine months ago.
- (B) The incidence (number of cases per thousand) of malaria, also contracted from mosquito bites, has increased.
- (C) A very high proportion of the cases were diagnosed in people of neighbouring country.
- (D) More cases are now reported because of increases in administrative efficiency.
- (1) Only A (2) Only D (3) Only C (4) C and D (5) A and D

8. According to Albert Einstein's famous theory of relativity, time travel is theoretically possible. Assuming that time travel were to be made possible through some technological breakthrough, it would be advantageous to send someone back in time to prevent the assassination of Archduke Franz Ferdinand in 1914 and thus keep World War I from ever occurring. Which of the following inference can be deduced from above argument?

- (1) It is not possible to alter a significant current in world history merely by changing a single event.
- (2) The technology necessary for time travel is likely to be developed in the near future.
- (3) Franz Ferdinand was the most influential figure of 1914.
- (4) The assassination of Franz Ferdinand was the crucial event that triggered the start of World War I.
- (5) None of these

9. The airlines have requested all their passengers to check the status of flight operations before leaving their homes as heavy fog is causing immense problems to normal flight operations. Which of the following inference can be made from the above statement?

- (1) The majority of the air passengers may check the flight status before starting their journey to the airport.
- (2) The Govt. may take serious objection to the notice issued by the airline company.
- (3) Majority of the passengers may cancel their tickets and postpone their journey till the situation becomes normal.
- (4) Both (1) and (2) (5) None of these

10. In the film Jurassic Park, scientists create live dinosaurs by replicating dinosaur DNA found inside an insect that had bitten a dinosaur and was then trapped in amber. Although such a feat has not yet been accomplished, one day modern science will probably succeed in recreating prehistoric creatures in a similar manner. All of the following assumptions underlie the conclusion of the passage above EXCEPT

- (1) the genetic information in DNA is sufficient to permit the recreation of an entire animal.
- (2) it will someday be possible to accurately replicate DNA in a laboratory.
- (3) enough DNA can be extracted from an insect to recreate an entire animal.
- (4) scientists will never fully understand how DNA functions.
- (5) None of these

11. Statements:

Some holy is festival. Some festival is enjoyment.  
Some enjoyment is colourful. Some colourful is happiness.

Conclusions:

- I. Some holy is happiness is a possibility
- II. Some festival is colourful is a possibility
- III. Some enjoyment is happiness is a possibility.
- IV. Some Holy are not Festival is a possibility
- V. Some Employment are not Happiness is a possibility
- (a) None follows (b) Only I and II follows
- (c) Only II III and IV follows (d) Only I II and V follows
- (e) All follows

12. Statements:

No Pre are Mains, All Tier are Mains,  
All Tier are Exam.

Conclusions:

- A. Some Tier are not Pre.
- B. Some Mains are Exam.
- C. Some Exam are not Pre.
- D. No Pre are Tier.
- (a) All follow (b) A, B and C (c) B, C and D (d) A, C and D
- (e) None of these

13. Conclusions: Some job are result. All waiting being sorrow is a possibility. All good being waiting is a possibility. Some good is hesitating. Some result is hesitating.

Statements:

- (e) No result is waiting. All waiting is hesitating. Some hesitating is sorrow. Some result is good. No good is job.
- (e) Some result is waiting. All waiting is hesitating. Some hesitating is sorrow. No result is good. All good is job.
- (e) Some result is waiting. Some waiting is hesitating. Some hesitating is sorrow. Some result is good. Some good is job.

(e) No result is waiting. All waiting is hesitating. Some hesitating is sorrow. No result is good. All good is job.  
 (e) Some result is waiting. All waiting is hesitating. Some hesitating is sorrow. Some result is good. All good is job.

14. Conclusions: All dog is cat. No horse is boy.

Statements:

- (a) All horse is rat. No rat is boy. Some boy is cat. All cat is dog. Some dog is elephant.
- (b) All rat is elephant. Some elephant is cat. Some cat is boy. All boy is dog. No dog is horse.
- (c) All dog is boy. All boy is cat. Some horse is elephant. All elephant is rat. No horse is cat.
- (d) Some rat is elephant. All elephant is boy. Some boy is horse. No horse is cat. All cat is dog.
- (e) None of these.

15. Conclusions: Some train is bus. No station is platform.

Statements:

- (a) Some queen is train. No train is station. All bus is station. Some station is platform. All platform is road.
- (b) All queen is station. All platform is train. Some train is bus. All bus is road. No station is train.
- (c) Some queen is train. All train is road. No road is platform. Some platform is bus. No bus is station.
- (d) Some queen is train. No train is bus. No bus is road. Some road is station. All station is platform.
- (e) None of these.

## VII. DI Section

Study the following information carefully and answer the questions given below:

In an institute there are 5600 students, the ratio of the number of girls to the number of boys is 3 : 4 respectively. All the students are enrolled in different programmes viz. SSC, Banking, CLAT and F-CAT. 20% of the total number of boys are enrolled in CLAT programme. The number of girls enrolled in Banking is five-fourths of the number of boys taking the same.

One fourth of the total number of girls enrolled in F-CAT programme. The total number of students enrolled in F-CAT programme is 1400. Two-fifths of the boys enrolled in SSC programme and the remaining boys are enrolled in Banking programme. The girls enrolled in SSC are three fourth of the number of boys enrolled in the same. The remaining girls are enrolled in CLAT programme.

1. What is the respective ratio of the number of boys enrolled in CLAT to the number of boys enrolled in SSC?

- 1) 1 : 2 2) 1 : 3 3) 2 : 3 4) 4 : 5 5) 3 : 4

2. What is the number of girls enrolled in CLAT?

- 1) 210 2) 260 3) 280 4) 180 5) 240

3. What is the total number of students enrolled in Banking?

- 1) 1060 2) None of these 3) 1080 4) 1040 5) 1020

4. The number of girls enrolled in F-CAT is approximately what percent of the total number of students enrolled in SSC?

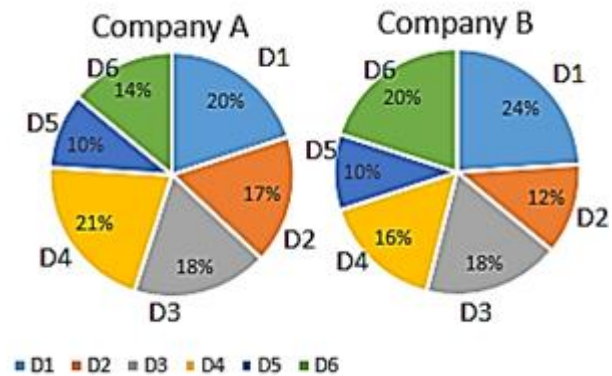
- 1) 24.8% 2) 26.8% 3) 36.8% 4) 32.9% 5) 29.4%

5. The number of boys enrolled in CLAT and SSC together is approximately what percent more or less than the number of girls enrolled in SSC?

- 1) 100% more 2) 100% less 3) 125% more 4) Other than given options 5) 75% less

The following pie-charts show the percentage distribution of the total employees of two Companies A and B in different departments, and the table shows the ratio of Male to Female employees in all the departments of Company A and B. The total number of employees working in Company A and B are 8000 and 7500 respectively.

|    | Company A     | Company B     |
|----|---------------|---------------|
|    | Male : Female | Male : Female |
| D1 | 5 : 3         | 13 : 7        |
| D2 | 9 : 7         | 11 : 14       |
| D3 | 5 : 7         | 7 : 8         |
| D4 | 8 : 7         | 17 : 13       |
| D5 | 3 : 2         | 23 : 27       |
| D6 | 9 : 5         | 7 : 3         |



6. What is the total number of Female employees in D5 of Company A and B together?

- (a) 705 (b) 710 (c) 715 (d) 720 (e) 725

7. The total number of Female employees in D1 of Company B is approximately how much per cent more than the number of Female employees in D1 of Company A?

- (a) 5% (b) 7.5% (c) 15% (d) 22.5% (e) 30%

8. What is the difference between the total Male employees of Company A and the total Female employees of Company B?

- (a) 1230 (b) 1232 (c) 1234 (d) 1236 (e) 1238

9. The average number of Male employees in D1 and D2 of Company B is approximately what percentage of the average number of Female employees in D5 and D6 of Company A?

- (a) 177.5% (b) 197.5% (c) 212.5% (d) 217.5% (e) 227.5%

10. The total number of Females working in Company A is approximately what percentage of total employees of Company A?

- (a) 42.12% (b) 43.48% (c) 44.24% (d) 45.64% (e) 46.86%

Directions: there are five travelling companies. And the following table gives the percentage distribution of all customers according to their mode of transportation

| Travelling Companies | Percentage of Traveller by Bus | Percentage of Traveller by Air | Percentage of Traveller by Ship | Percentage of Traveller by Car | Percentage of Traveller by Train |
|----------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|----------------------------------|
| Royal Cruiser        | 38                             | 10                             | 9                               | 20                             | -                                |
| Iana Travels         | 47                             | 13                             | 0                               | -                              | -                                |
| Kali Travels         | 30                             | 20                             | -                               | -                              | -                                |
| Nainital Travels     | -                              | 44                             | 12                              | -                              | 4                                |
| Kingfisher Travels   | -                              | 25                             | -                               | 30                             | -                                |

11. The total number of passengertravels through kali travels is 300, and the passenger travels by bus and air for royal cruiser is equal to the passenger travel by all the modes other than Air from kali travels. Find the ratio of traveler by Train from Royal cruiser to Bus traveler of kali travels.  
 (a)138/225 (b)128/225 (c)124/123 (d)152/152 (e)None

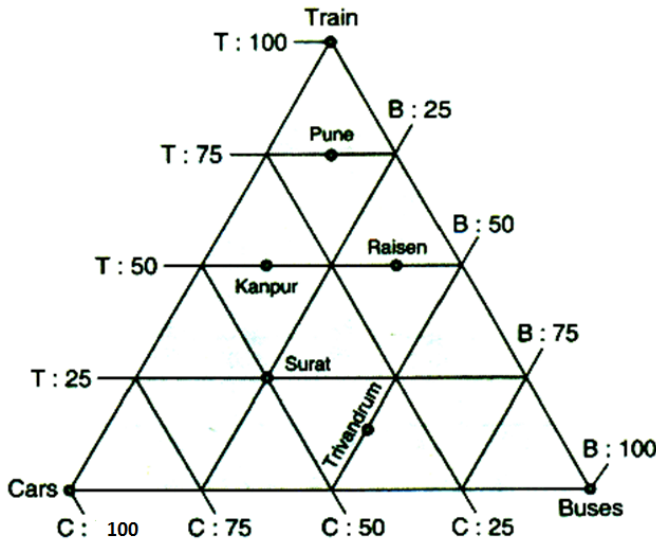
12. If the total number of passenger is 500 from the royal cruise and same for Iana travels. Find the difference of people travelling by Bus from these two travel agencies.  
 (a)44 (b)54 (c)45 (d)36 (e)None of the above

13. From the Kingfisher travels passenger travelling by train and ship is equal to the passenger travelling by car. Then how much percentage of passenger is travelling by Bus?  
 (a)15 (b)16 (c)17 (d)18 (e) None of the above

14. Kingfisher passengers are 60% more than the Royal cruiser total passenger. Then the passenger travelling by bus from kingfisher travels is how much percent more/less than that of royal travel travelling through same mode of transport.  
 (a)35 (b)37.37 (c)36.84 (d)47 (e)48.26

15. How many passengers are travelling by Nainital travels if car and bus traveler of Nanital travels is equal to the Air traveler of Kingfisher travels.  
 (a) 500 (b) 550 (c) 560 (d) 450 (e) None of the above

A survey was conducted in five cities viz. Pune, Kanpur, Raisen, Surat and Trivandrum, for the percentage of people using T (trains), B (buses), C (cars) as modes of transport. Number of persons surveyed in the cities Pune, Kanpur, Raisen, Surat and Trivandrum are 2000, 4000, 6000, 3000 and 8000 respectively. Refer to the data in the triangular bar diagram to answer the questions that follow.



16. The city where the least number of persons uses buses is  
 (a) Surat (b) Raisen (c) Kanpur (d) Pune (e) None of these

17. The average number of persons using trains for transportation in Pune, Kanpur, Raisen and Trivandrum is  
 (a) 1880 (b) 1750 (c) 1950 (d) 2015 (e) None of these

18. The mode of transport used by the least number of persons in all the given cities.

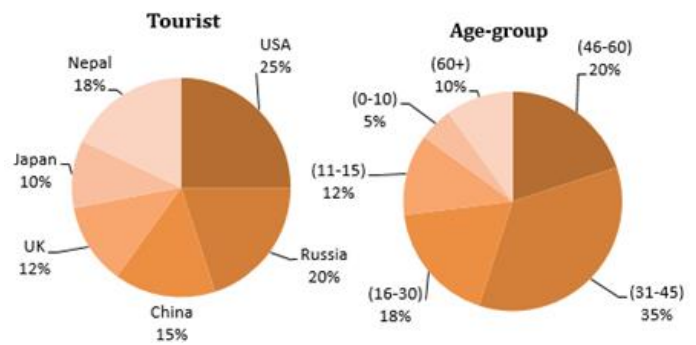
(a) trains (b) buses (c) cars (d) cars and buses (e) None of these

19. Among the given five cities, the cities where less than 30% of the people use cars as transport are

(a) Kanpur and Trivandrum (b) Pune, Kanpur and Raisen (c) Pune and Raisen (d) Pune, Kanpur and Surat (e) None of these

20. Which of the following statements is not true?

(a) 50% of the people use trains for transport in Kanpur and Raisen  
 (b) In Trivandrum, more than 50% of the people use cars for transport  
 (c) More percentage of people use buses for transport in the city Surat than in the city Pune.  
 (d) In city Raisen, there is more percentage of people using trains for transport than buses.  
 (e) None of these



Study the following pie-chart carefully and answer accordingly: The following pie-charts show the number of tourists who visited India from different countries from different age group. (The age group criterion applies uniformly to every country).

21. If number of tourist from China was 9000, then find number of tourist from Nepal of age group (16-30).  
 (a) 2125 (b) 1835 (c) 1645 (d) 1944 (e) None of these

22. Find the ratio of tourist of age group (46-60) from Japan to age group (16-30) from USA, if number of tourist from UK was 7200.  
 (a) 4 : 9 (b) 9 : 4 (c) 7 : 9 (d) 1 : 3 (e) 4 : 5

23. If total tourist from China of age 60+ was 1500, find total tourist from Russia?  
 (a) 20450 (b) 19800 (c) 20000 (d) 21500 (e) None of these

24. Tourist from Nepal of age group (31-45) was what percent of total number of tourist, if tourist of that age-group from Russia was 700?  
 (a) 5.85% (b) 6.30% (c) 7.25% (d) 8.45% (e) None of these

25. If total tourist from all countries was 10000, then what is the average number of tourist from all the countries of age group (16-30)?  
 (a) 300 (b) 375 (c) 250 (d) 400 (e) None of these

### VIII. Quant

1. A box contains 24 marbles, some are green and others are blue. If a marble is drawn at random from the box, the probability that it is green is 2/3. The number of blue balls in the box is  
 (a) 13 (b) 12 (c) 16 (d) 8 (e) None of the above



2. The average age of a couple was 24 years. After their 1st and 2nd children (twins) were born, the average age of the family became 13.5 years. The average age of the family just after 3rd child was born was 13.2 years. The average age of the family after 4th child was born was 16 years. The current average age of the family is 19 years. What is the current age of the twin children?  
(a) 14 years (b) 15 years (c) 11 years (d) 12 years (e) 13 years

3. A man buys Vinegar at Rs 10/litre and dilutes it with water. He sells the mixtures at the cost price and thus gains 11.11%. Find the quantity of water mixed by him in every litre of Vinegar.  
(a) 0.1 L (b) 0.909 L (c) 0.125 L (d) 0.111 L (e) None of the above

4. There are 500 rooms in a multi-floored hotel. However, due to a change in rule, the hotel has to decrease the number of floors by 5. However, the management is able to put 5 more rooms in each floor. Over all, the number of rooms in the hotel decreases by 10%. Originally number of floors was \_\_\_\_\_ and the number of rooms/floor the hotel was \_\_\_\_\_?  
(a) 10, 50 (floors rooms) (b) 20, 20 (c) 20, 25 (d) 50, 10 (e) Cbd

5. A man invest 50% of the amount invested by B. B withdraw whole amount from the business after 4 months. C joins the business with the investment of X Rs in a month after B had withdrawn from the business. At the end of the year A and C share same amount of profit. If investment of B is Rs 2400 then which of the following may be the investment of the C. (i). 1800 (ii). 3600 (iii). 2400 (iv). 7200 (v). 5400  
(a) (i) and (iii) (b) only (iii) (c) (i), (ii) and (iii) (d) (i), (ii), (iii) and (iv) (e) (i), (ii) and (iv)

6. There is a rectangular path just inside a rectangular park. Width of the path is 2 cm. If length of park is decreased by 4 cm then, it becomes a square. Area of the rectangle is 113 times the area of the path. From the above given information which of the following can be found out.  
(i) Area of path  
(ii) Length of the park  
(iii) Sum of perimeter of the rectangular park and perimeter of the path (both external and internal perimeter)  
(a) only (ii) (b) only (ii) and (iii) (c) only (i) and (iii)  
(d) all of the above (e) only (iii)

7. Two numbers A and B are given. What is  $A + B$  ?  
(i) LCM of A and B is 44 times their HCF  
(ii) The sum of LCM of A & B and their HCF is 540.  
(iii)  $A/10+B/10$  is an integer.  
(iv)  $A + B > 150$   
Which of the given statements are redundant to find the answer of the question.  
(a) statement (ii) (b) statement (iii) (c) statement (iv) (d) statement (i)  
(e) Answer cannot be determined even after using all the statements.

8. A set of five two-digit integers numbers is given. Average of first and last number is middle number. Second number is half of first number. Sum of first three numbers is 127. Middle number is (A) and average of five numbers is (B). Fourth number is 62. What can be the values of (A) and (B) respectively?  
(a) 64, 50 (b) 62, 55 (c) 62, 50 (d) 64, 55 (e) 60, 55

9. Floor of a square room of side 10 m is to be completed covered with square tiles, each having length 50 cm. The smallest number of tiles needed is (a) 200 (b) 300 (c) 400 (d) 500 (e) None of these

10. Number of soldiers recruited by Navy over the last few years are 5000, 10000, 15000, 30000, 40000, 50000. What was the average number of soldiers recruited in the navy over all these years together? (a) 25000 (b) 24000 (c) 2400 (d) 28000 (e) None of the above

Find the odd number in the following number series?

11. Q11. 550, 550, 549, 544, 515, 306  
(a) 549 (b) 544 (c) 515 (d) 306 (e) 550

Q12. 450, 900, 600, 800, 640, 768  
(a) 900 (b) 600 (c) 800 (d) 640 (e) 768

Q13. 3, 8, 20, 46, ..... Which of the following term will be 432?  
(a) 5th (b) 6th (c) 7th (d) 8th (e) 9th

$\times 2+2, \times 2+4, \times 2+6, \times 2+8, \times 2+10, \times 2+12$

Q14. 1, 6, 21, 66, 201, \_ \_ \_ \_ ... Find the 10<sup>th</sup> term in the series ?  
(a) 62525 (b) 37575 (c) 15325 (d) 52771 (e) 49206

15. Given below is the sequence of series. Analyze the pattern of the series and answer the given following questions.

1, 3, 9, 31, 129, 651

2, \_ \_ \_ \_ \_ ?

(a) 625 (b) 37 (c) 153 (d) 771 (e) 631

Compare Quantity A and Quantity B, using additional information centered above the two quantities if such information is given, and select one of the following four answer choices:

- Quantity A is greater than Quantity B
- Quantity B is greater than Quantity A
- Quantity B is greater or equal to Quantity A
- Quantity A is greater or equal to Quantity B
- Both are equal or the relationship cannot be determined from the information given.

16. The average of 5 numbers is 9 and the average of the last three numbers is 5.

- Average of the first two numbers
- Average of the last 3 numbers

17. A piece of work which could be finished in 9 days was finished 3 days earlier after 10 more men joined.

- The number of men employed
- 20

18. A can do half of a piece of work in one day whereas B can do full, B can do half the work as C in one day.

- Efficiency of A
- Efficiency of B

19. A. A sum of money placed at compound interest doubles itself in 4 years. Number of years will it take to amount to eight times itself?

B. Number of complete years in which a sum of money put at 25% p.a. compound interest will be more than double itself.

20. There are three quantities provided in the questions. You have to find out the values of the quantities and compare them according to the given codes as follows

@  $\rightarrow >$ , &  $\rightarrow <$ , \*  $\rightarrow \geq$ , \$  $\rightarrow \leq$ , #  $\rightarrow =$  (or cbd)

'p', 'q', 'r' and 'n' are positive integers.

Quantity I: 'p' :-  $\frac{(p+n)^2 - (p-n)^2}{8pn(p+n)^2} = 1$

Quantity II: 'q' :-  $\frac{(q+n)^3 - (q-n)^3}{(n^2 + 3q^2)^2} = \frac{1}{8n}$

Quantity III: 'r' :-  $\frac{\sqrt{r+n} + \sqrt{r-n}}{\sqrt{r+n} - \sqrt{r-n}} = 2$

(a) (@, &) (b) (#, @) (c) (\$, @) (d) (&, @) (e) (\*, #)

21. To find out the share of Y out of Rs 1820, which of the following statements is/are sufficient/necessary?

- A. The share of X is 1.8 times the combined share of Y and Z.
- B. The share of Y is 3/11 of the combined share of X and Z.
- C. The share of Z is 1/6 of the combined share of X and Y.

- (a) Statements A and B together are sufficient
- (b) Statement A and C together are sufficient
- (c) Statements B and C together are sufficient
- (d) Either statement B alone or statements A and C together are sufficient
- (e) None of these

22. A sum of money Rs 2550 is to be distributed among Knahiya, Varun and Rajneesh. What will be the share of Varun?

- A. Knahiya's share is 1.5 times Varun's share.
- B. Rajneesh's share is half the share of Knahiya and Varun together.
- C. The share of Knahiya is Rs 340 more than Varun.
- (a) Either A and B or A and C together are sufficient
- (b) Only A and B (c) Only A and C (d) All are required
- (e) Even all together are not sufficient

23. To find the temperature on Monday which of the following information is sufficient?

- A. The average temperature for Monday, Tuesday and Wednesday was 38° C.
- B. The average temperature for Tuesday, Wednesday and Thursday was 43° C.
- C. The temperature on Tuesday and Thursday was 45° C each.
- (a) Only A and B are sufficient (b) Only B and C
- (c) A and either B or C (d) C and either A or B
- (e) All the three together are sufficient

24. What is the ratio of the ages of Ravina and Shivani?

- A. 6 years ago their ages were in the ratio 3 : 4.
- B. After 2 years the younger one's age will be 85% that of the older.
- C. The sum of their ages is three less than twice the age of the older.
- (a) Only A and C (b) Any two of them (c) Only A and B
- (d) All together are required (e) Any one of them is required

25. The ratio between the present ages of the son and his father is 1 : 3. Find the present age of the father.

- A. Difference between the present ages of the mother and her son is 22 years.
- B. Difference between the present ages of the father and his son is 26 years.
- C. The present age of mother is 4 years less than thrice the present age of her son.
- (a) Only A and C together (b) Either B alone or A and C
- (c) Any two of them (d) All statements are required
- (e) Question can't be answered even after using all

## Solutions

### Verbal

#### Grammar

Ans.(b) Sol. GST Compensation Cess has been introduced to make good apprehended losses to States in the

Ans.(c) Sol. as a subject vested with rights and duties. However, within the parameters of law, it has never been confined to

Ans.(a) Sol. before the court and plead is different from the right to integrity and equal

Ans.(d) Sol. faces is that the groups perceived to be disadvantaged consist of a very large segment of Indian society

Ans.(e) Sol.No correction required

Probable Starters (CET 2012 paper actual questions):

5, 5, 2,

Ans. (D) Sol. In this question, Option B and D can be easily ruled out when we connect them with "ALONGWITH". Hence the logical answer after eliminating B and D is of A-C, i.e.; option D. Ans. B

#### Vocab

9. (C) Compliment' and 'flak' are opposite meaning words.

10. (D) Commencement' and 'culmination' are opposite meaning words

#### Fill in blanks

Ans.(d) Sol. Option D is the most appropriate answer which fits in all three statements. product-something that is the result of a process. someone or something that is produced or influenced by a particular environment or experience."Inclined" comes with "to" not "of" hence option E is incorrect.

#### Cloze

S1. Ans.(b) S2. Ans.(a) S3. Ans.(c) S4. Ans.(d) S5. Ans.

#### Match the following

Ans S-B. P-D, Q-C, R-A, S-B. Collapse: Fall. Anecdote: story. Speculate: guess. Tenacious: Determined

Ans: R-A and Q-C. P-B, Q-C, R-A, S-D. Conceive: Imagine. Accent:

Significance. Ascertain: determine. Rigorous: inflexible

Ans: P-B and S-C. P-B, Q-D, R-A, S-C. Rival: Competitor. Bid: offer.

Commodious: capacious. Magnetize: fascinate

Ans: S-D P-A, Q-B, R-C, S-D. Nadir: bottom . Sparse: skimpy .

Exhausted: Fatigue. Felicitate: rejoice

Ans: 1: P-C and S-D. P-C, Q-A, R-B, S-D. Shabby: petty. Tacit:

understood. Hasty: headlong. Elegant: graceful

#### Sentence Correction

Correct Option: A

Coming to Statement I, there is no error in the sentence since it is grammatically and contextually right. Therefore, it is a correct sentence. Statement II is not correct since there is an error in the degree of the comparison used in the sentence. There are two options and the comparison is between two things. This means comparative degree should be used and not the superlative degree as used in the sentence. The correct sentence would have been: But it is also true that they are unable to decide the better among the two options available in front of them. Statement III is not correct since there is an error in the degree of the comparison in the sentence. When two qualities of the same person are compared, the comparative degree as in —er -is not used but more + Adjective is used. Here, the correct statement would have been: It seems that the

perpetrators of the crime are more wise than brave. Statement IV is correct since there is no grammatical error in the sentence. Therefore, there is no correction required in it. Only II and III are incorrect whereas the rest of the two are correct statement. This makes option A the correct choice among the given options.

Correct Option: C

Statement I is not correct since has should have been used with the International Monetary Fund since it is a single organization and have used in this statement is not right. The correct sentence would have been: The International Monetary Fund has decided that it will dole out subsidies to the developing countries in the present financial year. All the other statements II, III and IV are correct as there is no grammatical and contextual error in those sentences. This makes option C the correct choice among the given options.

Correct Option: E

Statement I is correct since there is no error in it either grammatically or contextually. Therefore no correction is required in this sentence. Statement II is not correct since there is an error in the usage of the phrase give a call since it is implied that the central bank will decide the future course of action. Take a call should have been used in this context. The correct sentence would be: The Monetary Policy Committee of the bank will only take a call regarding this after the inflation framework is published by the Government. Statement III and IV are grammatically and contextually correct. No correction is required in either of the two statements. None of the given options gives the correct combination of correct / incorrect statements. This makes option E the correct choice among the given options.

Correct Option: E. All the given statements are correct grammatically and contextually. No correction is required in any of the given statements. This makes option E the correct choice among the given options.

Correct Option: E

Statement I is not correct since according to the rules of grammar, it is necessary that if any principal verb is used after from, the -ing form of the verb should be used. It is not correct to use prevented from to do their duties. The correct usage would have been prevented from doing their duties. The correct sentence would be: It was alleged that Police were prevented from doing their duties. Statement II is not correct since there is an error in the usage of the verb in the part did not allow the Police entering the crime scene. The correct usage would have been did not allow the police to enter the crime scene. The correct sentence would be: The public were so angry with the incident that they did not allow the Police to enter the crime scene. Statements III and IV are correct and therefore no correction is required in such statements. This makes option E the correct choice among the given options.

Paragraph based

(a) Sol. The statements provided above can be formed into an account of the author's visit to the historical sites and a brief description of history related to the same. The second statement should be replaced by the statement given in the option (a) that would follow the other statements contextually. It can be easily connected with the first statement of the passage. Other options find very little relevance to the paragraph so formed. Hence option (a) is the correct choice.

(a) Only Statement A talks about the city which is coherent to the passage.

(e) Sol. If the sentence (D) is the first sentence of the paragraph, the sentences in the sequence of DABCE form a coherent paragraph

which is about terrorism and the intelligence gap in anticipating such attacks. However, the sentence (A) finds no alternative to be matched with as it talks about the organization of IS and its terror networks which has no relevance from any other sentences among the given options. Hence (e) is the correct option as the sentence (F) does not belong to the paragraph so formed.

(d) Correct order is D A E C B

(e) is the coherent passage.

Babur's grandson Akbar ORDERED the construction of a royal city, which then served as the capital of the Mughal empire from 1571, on an isolated elevated, rocky ridge.

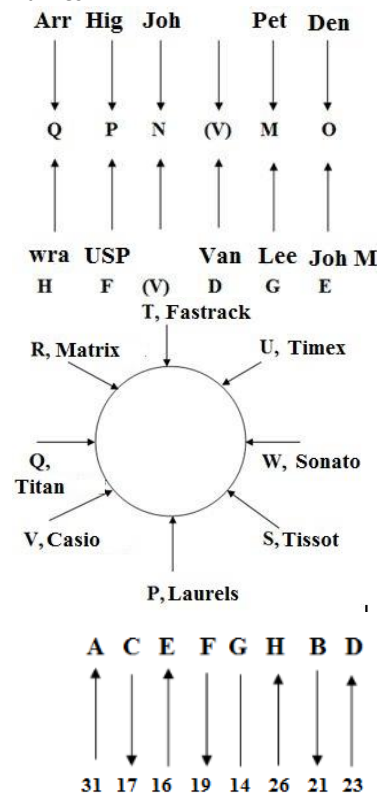
Correct para: First sentence - Duryodhana was a wicked prince. He did not like that Pandavas should be loved and respected by the people of Hastinapur. Among the Pandavas, Bhima was extraordinarily strong and powerful.

Duryodhana especially hated Bhima. One day Bhima made Duryodhana fall from a tree from which Duryodhana was stealing fruits. This enraged Duryodhana so much that he began to think of removing Bhima from his way.

RC 1 - D C B D D C E

RC 2 - EABCDACC

Puzzles



| Floor | Person | City       |
|-------|--------|------------|
| 7     | S      | China      |
| 6     | Q      | Indonesia  |
| 5     | V      | Thailand   |
| 4     | P      | Madagascar |
| 3     | U      | Kazakistan |
| 2     | T      | Belgium    |
| 1     | R      | Denmark    |

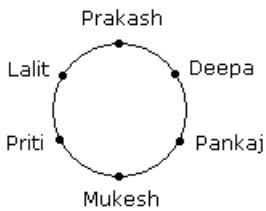
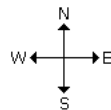
| Person | Day      | Time Slot      | Colour |
|--------|----------|----------------|--------|
| G      | January  | First Saturday | Red    |
| B      | January  | Third Saturday | Blue   |
| I      | March    | First Saturday | Green  |
| D      | March    | Third Saturday | Yellow |
| E      | June     | First Saturday | Pink   |
| C      | June     | Third Saturday | Purple |
| F      | August   | First Saturday | Black  |
| A      | August   | Third Saturday | Brown  |
| H      | December | First Saturday | White  |
| J      | December | Third Saturday | Grey   |

26. Therefore, A is sitting in between B and C.



27. Fargo and Mercedes are on both the sides of cadillac car.

- → Fiat
- → Bedford
- → Maruti
- → Ambassador
- → Fargo
- → Cadillac
- → Mercedes

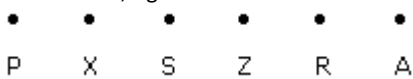


28. Hence, Lalit is sitting right to Prakash.

29. Mary is sitting immediate right to Reeta.



30. Therefore, right of P is X.



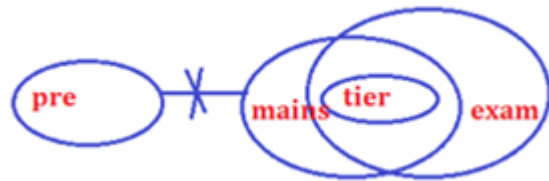
### Critical Reasoning

#### Answers

- Answer: Option E Evacuating low-lying areas and rushing in relief to the affected areas clearly indicates that floods have occurred in the area.
- Answer: Option B The increase in number of asthma cases must have alerted the authorities to take action to control air pollution that triggers the disease.
- Answer E. All 3 follows, even though III is long term solution but the problem is also long term.
- (2) (A) is irrelevant and (C) supports the given argument. (B) weakens the argument by saying that since more people consume liquor in rural areas hence it is normal that the cases of food poisoning are more in rural areas. Similarly (D) also weakens the argument.

- (3) Only (C) supports the argument saying that there are many unauthorized spurious liquor shops in the rural areas due to which the low quality liquor is supplied in rural areas.
- (3) (1), (2) and (4) are irrelevant as nothing is mentioned about them. The district administration has issued a circular to make the farmers aware of hazards that indiscriminate use of pesticides poses to ground water and plead them to refrain from the same. Hence (3) is an assumption in the given statement.
- The authorities conclude that measures to control mosquitoes have failed. (C) is irrelevant in the present context. (A) weakens the given argument by saying that the increase is because of the effective test and (D) also weakens the argument by saying that more cases are registered this year because of increases in administrative efficiency. However (B) supports the argument saying that as another mosquito-borne disease is increasing, it is more likely to indicate that mosquitoes are not controlled. (5) is correct.
- (4) If (4) is not true we cannot reach the conclusion stated above.
- (1) Only (1) is implicit in the given statement as it is a desired effect. (2) and (3) are not relevant as they are neither the root cause nor the desired effect.
- (4) Choice (4) is not even remotely related to the passage.

11. Answer E



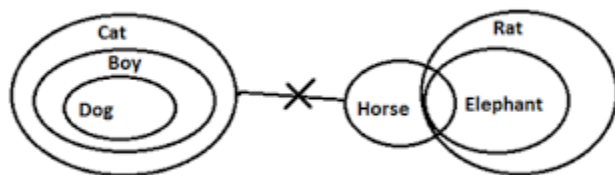
12. E All follows



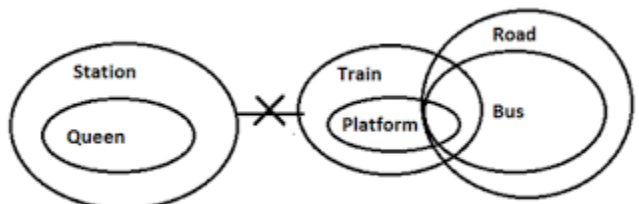
13. Answer E.



14. Answer C



15. Answer E



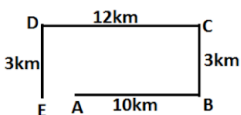
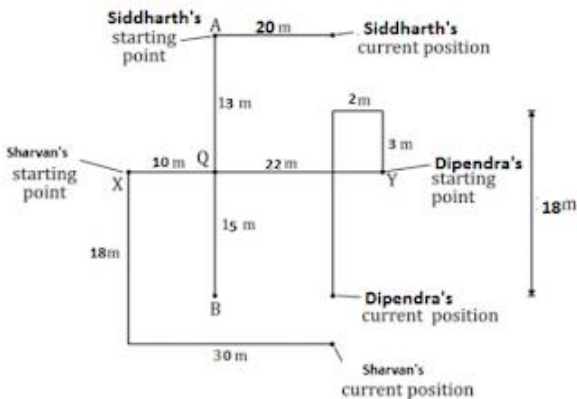


Logic  
Solutions (1-3):

| WORD            | CODE  |
|-----------------|-------|
| analysis        | fr    |
| gathering       | ch    |
| in              | mo    |
| to              | re    |
| nominate        | gi    |
| chairman        | yu    |
| evening         | ba    |
| persons         | dv    |
| committee/ exam | es/pt |

S1. Ans.(e) S2. Ans

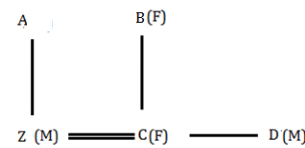
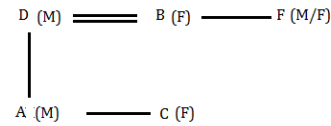
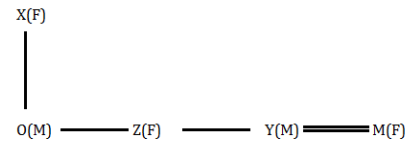
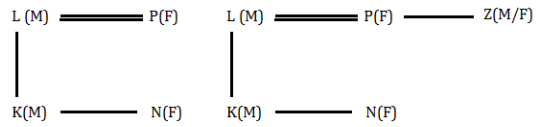
Input: \$ F 3 6 N @ 9 K T Q 5 C % 8 B # 7 D S \* H 4 W L  
Step I: \$ F 3 6 N @ K T Q 5 C % B # D S \* H 4 W L 7 8 9  
Step II: \$ 3 F 6 N @ K T 5 Q C % B # D S \* H 4 W 7 L 8 9  
Step III: \$ 3 F 6 @ K T 5 Q % # D \* H B C N S 4 W 7 L 8 9  
S3. Ans.(c) S4. Ans.(c) S5. Ans.(b)



S6. Ans.(d) west S7. Ans.(c) S8. Ans.(a) 9. Ans.(a) 10. Ans.(b)

**Solution:**

Input: 62 59 jnop 16 itrs 29 smkj 44 xkov 33 mnmn gjrt  
Step I: rohn 118 62 jnop 16 itrs 29 44 xkov 33 mnmn gjrt  
Step II: lpjr 155 rohn 118 jnop 16 itrs 29 44 xkov 33 gjrt  
Step III: iptl 99 lpjr 155 rohn 118 16 itrs 29 44 xkov gjrt  
Step IV: hvow 154 iptl 99 lpjr 155 rohn 118 16 29 xkov gjrt  
Step V: flox 116 hvow 154 iptl 99 lpjr 155 rohn 118 16 xkov  
Step VI: wmlz 72 flox 116 hvow 154 iptl 99 lpjr 155 rohn 118  
Answers IO = 1, 3, 1, 5, 5



Answer: Option E:

To find the code for 'we', we need to have any of the following:

- (i) 'We are friends' should have only 'We' common with another statement, as in II;
- (ii) 'We are friends' should have only 'are' and 'friends' common with another single or two statements, as in I and III. Thus, we need Either II only or I and III only.

Answer: Option B:

From the given statement, the descending order of heights is :  $\_ , Q , S , \_$ .

From II, we have the order:  $\_ , Q , R , S , \_$ . Thus, R is in the middle.

From III, we have the order :  $P , Q , \_ , S , \_$ . But, according to I, T is not the shortest.

So, R is the shortest. Thus, we have the order :  $P , Q , T , S , R$ . So, T is in the middle.

A

Answer: Option E.

From I and II, we conclude that Mathematics period began at 9.00 a.m., Biology period began at 8.00 a.m. and Physics period began at 11 a.m. So, the Chemistry period began at 10.00 a.m.

From I and III, we conclude that Mathematics period ended and Chemistry period began at 10.00 a.m.

Answer: Option E.

From III, we have: Rajan's basic salary = Rs. 1550.

From I, we have: Vasu's basic salary = Rs. (1550 + 100) = Rs. 1650.

From II, we have: Rajan's other allowances = Rs. 2000 and Vasu's other allowances = Rs. 2050.

Therefore Vasu's monthly salary = Rs. (1650 + 2050) = Rs. 3700.

Answer: Option A:

From I, we have:  $P > D, P > N, T > P$  i.e.  $T > P > D > N$  or  $T > P > N > D$  ... (i)

From II, we have:  $R > Q, T > R$  i.e.  $T > R > Q$  ... (ii)

From III, we have:  $T > Q, R > Q$  ... (iii)

Clearly, from (i) and (ii), we conclude that T is taller than each one of P, N, D, R and Q. So, T is the tallest.

Symbols B D E D B

DI

|         | Girls                           | Boys                               |
|---------|---------------------------------|------------------------------------|
| SSC     | $\frac{3}{4} \times 1280 = 960$ | $\frac{2}{5} \times 3200 = 1280$   |
| Banking | 600                             | 480                                |
| CLAT    | 240                             | $\frac{20}{100} \times 3200 = 640$ |
| F-CAT   | $\frac{1}{4} \times 2400 = 600$ | $1400 - 600 = 800$                 |

- 1 Required ratio = 640 : 1280 = 1 : 2
- 5 Required answer = 240
- 3 Required answer = 600 + 480 = 1080
- 2 Required % =  $600 / (1280 + 960) * 100 = 600/2240 * 100 = 26.8\%$
- 1 Required % more =  $\{(1280 + 640) - 960\} / 960 * 100 = 100\%$  more

6. (e)

Number of Female employees of Company A in department D5

$$= 8000 * \frac{10}{100} * \frac{2}{5} = 320$$

Number of Female employees of Company B in department D5

$$= 7500 * \frac{10}{100} * \frac{27}{50} = 405$$

$$\text{Total} = 320 + 405 = 725$$

7. (a)

Number of Female employees in department D1 of Company B

$$= 7500 * \frac{24}{100} * \frac{7}{20} = 630$$

Number of Female employees in department D1 of Company A

$$= 8000 * \frac{20}{100} * \frac{3}{8} = 600$$

$$\text{Required \%} = \frac{630 - 600}{600} * 100 = 5\%$$

8. (b)

Total Male employees of Company A  
 $= 1000 + 765 + 600 + 896 + 480 + 720 = 4461$

Total Female employees of Company B  
 $= 630 + 504 + 720 + 520 + 405 + 450 = 3229$

$$\text{Difference} = 4461 - 3229 = 1232$$

9. (d)

Average number of male employees in D1 and D2 of Company B

$$= \frac{1170 + 396}{2} = \frac{1566}{2} = 783$$

Average of female employee in D5 and D6 of Company A

$$= \frac{320 + 400}{2} = \frac{720}{2} = 360$$

$$\text{Required \%} = \frac{783}{360} * 100 = 217.5\%$$

10. (c)

Total number of Female employees of Company A

$$= 600 + 595 + 840 + 784 + 320 + 400 = 3539$$

Total employees of company A = 8000

$$\text{Required \%} = \frac{3539}{8000} * 100 = 44.24\%$$

Answers 11 to 15

ANS(A) Passenger travels by bus & Air for

$$\text{Royal cruiser} = \frac{80}{100} \text{ of } 300 = 240$$

$$\frac{48}{100} \text{ of passenger} = 240$$

$$\text{Passenger travel by train} = \frac{240 \times 23}{100}$$

$$\text{Passenger travel by bus (Kali travels)} = 300 \times \frac{30}{100} = 90$$

$$\text{Ratio} = \frac{240 \times 23}{100 \times 90} = \frac{138}{225}$$

ANS(C)

$$\text{Royal cruiser passenger of Bus} = \frac{500 \times 38}{100} = 190$$

$$\text{Iana travels passenger} = 47 \times 5 = 235$$

$$\text{Difference} = 45$$

(a) Passenger travels by Bus

$$= 100 - 30 - 30 - 25$$

$$= 15\%$$

$$(c) \text{ Kingfisher passengers} = 160 \times \frac{500}{100} = 800$$

$$\text{Bus passenger} = \frac{15}{100} \times 800 = 120$$

$$\text{Royal cruiser bus passenger} = \frac{38}{100} \times 500 = 190$$

$$\text{Required percentage} = \frac{(190 - 120)}{190} \times 100$$

$$= \frac{70}{190} \times 100 \approx 36.84$$

$$(a) 40\% \text{ of Nainital passenger} = \frac{800}{4} = 200$$

$$\text{Total passenger} = \frac{200}{40} \times 100 = 500$$

Answers 16 to 20

|            |       | Bus (%age) | Total of Bus | Train (%age) | Total of train | Cars (%age) | Total of car |
|------------|-------|------------|--------------|--------------|----------------|-------------|--------------|
| Trivandrum | 8000  | 50         | 4000         | 12.5         | 1000           | 37.5        | 3000         |
| Surat      | 3000  | 25         | 750          | 25           | 750            | 50          | 1500         |
| Kanpur     | 4000  | 12.5       | 500          | 50           | 2000           | 37.5        | 1500         |
| Raisen     | 6000  | 37.5       | 2250         | 50           | 3000           | 12.5        | 750          |
| Pune       | 2000  | 12.5       | 250          | 75           | 1500           | 12.5        | 250          |
| Total      | 23000 |            | 7750         |              | 8250           |             | 7000         |

Answer 16: (d) It can be easily observed from table that the required city is Pune. Correct option is (d)

Answer 17: (d) The total number of persons using trains for transportation in Pune, Kanpur, Raisen and Trivandrum  
 $= 1500 + 2000 + 3000 + 1000 = 7500$

The average =  $7500 / 4 = 1875$ . Correct option is (d)

Answer 18: (c) From the table, cars are used by 7000 people which is least. Hence correct option is (c)

Answer 19: (c) It is clear from the graph as well as table that in both Raisen and Pune, 12.5% of the total people use car as their mode of transport. Hence answer is option (c)

Answer 20: (b) In Trivandrum, 37.5% of the people use cars for transport. Hence option (b) is false. So the answer is option (b)

Answers 21 to 25

Ans.(d)  
Sol.  
Total tourist =  $\frac{9000 \times 100}{15} = 60000$   
Required answer =  $60000 \times \frac{18}{100} \times \frac{18}{100} = 1944$

Ans.(a)  
Sol.  
Required ratio =  $\frac{10 \times 20}{25 \times 18} = 4 : 9$

Ans.(c)  
Sol.  
Total tourist from all countries =  $\frac{1500 \times 100 \times 100}{15 \times 10} = 100000$   
∴ tourist from Russia =  $100000 \times \frac{20}{100} = 20,000$

Ans.(b)  
Sol.  
Required answer =  $\frac{18 \times 35}{100} = 6.30\%$

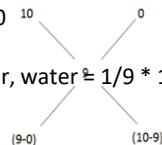
Ans.(a)  
Sol.  
Required average =  $\frac{18(25+20+15+12+18+10)}{6} = 300$

## Quant

1. (d); Let the number of green marble = x  
So,  $x \cdot \frac{1}{24} \cdot \frac{1}{1} = \frac{2}{3} \Rightarrow x = 16$   
So, No. of blue marble =  $24 - 16 = 8$

S2. Ans.(d)  
Sol. Sum of the ages of the couple =  $24 \cdot 2 = 48$   
After the 1st and 2nd children, sum =  $13.5 \cdot 4 = 54$   
Difference in sum =  $54 - 48 = 6$  years  
Or after  $6/2 = 3$  years, the twins were born to the couple (Ages of children at the time of birth is 0)  
After 3rd child, sum =  $13.2 \cdot 5 = 66$  yrs  
Difference =  $66 - 54 = 12$   
Or after  $12/4 = 3$  yrs, 3rd child was born (Couple + 2 children were already present. So 4)  
After 4th child, sum =  $16 \cdot 6 = 96$  yrs  
Difference =  $96 - 66 = 30$   
Or after  $30/5 = 6$  yrs, 4th child was born  
Current sum =  $19 \cdot 6 = 114$  yrs  
Difference  $114 - 96 = 18$  yrs  
Or after  $18/6 = 3$  yrs  
The gap between the children are as follows: 3 yrs, 6 yrs and 3 yrs  
Age of eldest ones =  $3 + 6 + 3 = 12$

S3. Ans.(d) Sol. As we know  $11.11\% = \frac{1}{9}$   
Therefore, to gain 11.11%, C.P. +  $\frac{1}{9} \cdot$  C.P. = 10  
 $\Rightarrow 10C.P./9 = 10 \Rightarrow C.P. = Rs 9$ . Therefore,  
So, Vinegar: Water = 9 : 1 With 1 litre of Vinegar, water =  $\frac{1}{9} \cdot 1$  litre = 0.111 L



S4. Ans.(c)  
Sol. Let the number of floors be x and rooms per floor be y  
So,  $xy = 500$   
After the change,  $(x-5) \cdot (y+5) = 450 \Rightarrow xy - 5y + 5x - 25 = 450$   
 $\Rightarrow 500 - 5(y-x) - 25 = 450$  (As,  $xy = 500$ )  $\Rightarrow 5(y-x) = 25$   
 $\Rightarrow y-x = 5$  (Only option c satisfies this condition)

S5. Ans.(d) Let C invested for t days And,  $1200 \times 12 = xt$   
Here, x will depend on t and value of t can be maximum 8 month and minimum 1 months

On putting  $t = 8 \Rightarrow x = 1800$ . Putting  $t = 6 \Rightarrow x = 2400$   
On putting  $t = 4 \Rightarrow x = 3600$ . on putting  $t = 2 \Rightarrow x = 7200$

6. d. Let width of the path = x cm. So, length of the park will be = (x + 4) cm. So,  $\frac{4}{3} \times (\text{Area of path}) = \text{Area of the park} \Rightarrow 43 [x(x + 4) - (x - 4)(x + 4 - 4)] = x(x + 4)$ . From this equation we can find out the value of x and hence all value can be find out.

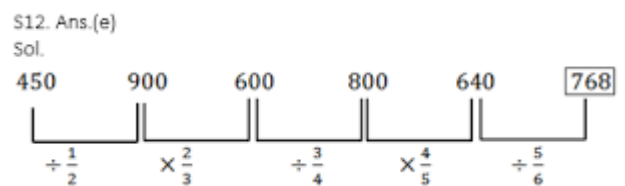
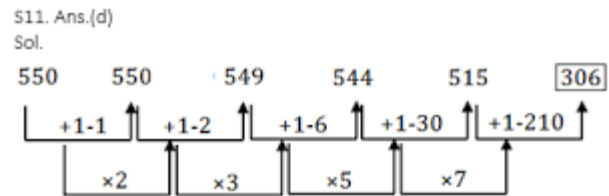
7. Ans.(e) From (i) & (ii), Let, HCF be x then LCM is 44x  
 $44x + x = 540 \Rightarrow x = 540/45 = 12$ . From (iii),  $A + B = 10K$   
Let,  $A = 12a$  &  $B = 12b$ . Then  $A + B = 12(a + b)$ , where a & b are coprime. Also,  $a \times b = 44$   
Possible values of a and b are (4, 11) or (1, 44)  
Sum of  $A + B = 12(4 + 11) = 180$   
Or  $A + B = 12(1 + 44) = 540$   
So, question can't be answered even after including all the statements.

8. d. Let first and fifth numbers be '2x' and '2a' respectively.  
Then, third number (A) =  $2x + 2a / 2 = x + a$   
Second number =  $2x/2 = x$   
 $2x \times x + a = 62$  2a ATQ,  $2x + x + x + a = 127 \Rightarrow 4x + a = 127$   
From option (a)  $x + a = 64 \Rightarrow 3x = 63 \Rightarrow x = 21$   
Average of five numbers =  $[42 + 21 + 64 + 62 + 2(64 - 21)]/5 = 55$   
According to this, option (d) 64, 55 is our correct answer.

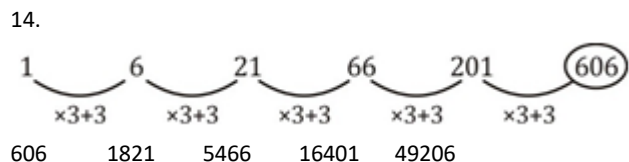
9. (c); Number of tiles needed = (Area of square room)/(Area of tile)  
 $= (10 \times 10 \times 10 \times 10)/(50 \times 50) = 400$

Soln 10. Avg =  $5000 + 10000 + 15000 + 30000 + 40000 + 50000 \times 1/5 = 25000$

## Series



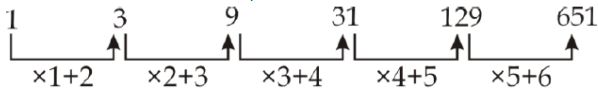
13. Series is as  $\times 2 + 2, \times 2 + 4, \times 2 + 6, \times 2 + 8, \times 2 + 10, \times 2 + 12$   
So, ? =  $210 \times 2 + 12 = 432$



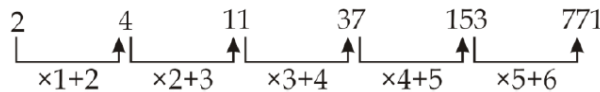
15.

## Ans.(d)

Pattern of the series is,



Similarly,



DS

Ans16 Sum of 5 numbers =  $9 \times 5 = 45$ . Sum of last three numbers = 15. The average of 1st two numbers =  $\frac{45-15}{2} = \frac{30}{2} = 15$ .

Ans 17. Hint :  $9x = 6(x + 10) \Rightarrow x = 20$

Ans 18.  $B > A$ . Efficiency ratios will be 1 : 2 : 4 Hint : Ratio of their efficiencies = Ratio of the amount of work they do in one day .

19. Soln  $A > B$ . A. The sum is 2 times in 4 years ; it will be 8 ( i.e. 23 ) times in  $4 \times 3$  years i.e. 12 years. B. Using Calculations it will take 4 complete years .  $1.25 \times 1.25 \times 1.25 = 1.95$ ,  $1.25 \times 1.25 \times 1.25 \times 1.25 = 2.44$

Ans 20. D. Assume values and hit n trial  
Quantity I < Quantity II > Quantity III

DS 21 to 25

S1. Ans.(e)

Sol.

Only statement B is sufficient

$Y : (X + Z) = 3 : 11$

$$\therefore Y = \frac{3}{(3 + 11)14} \times 1820 = 3 \times 130 = \text{Rs. } 390$$

S2. Ans.(a)

Sol.

$A \rightarrow K : V = 3 : 2$

$B \rightarrow K : V : R = 3 : 2 : \frac{5}{2} = 6 : 4 : 5$  (from A)

$C \rightarrow K - V = 340$

By combining either A and B together or A and C together, the share of Vijay can be calculated.

S3. Ans.(e)

Sol.

$A \Rightarrow M + T + W = 114$

$B \Rightarrow T + W + Th = 129$

$C \Rightarrow T = Th = 45$

From A, B and C, we will get  $M = 30^0$

S4. Ans.(b)

Sol.

Let R = age of Ravina, S = age of Shivani

$A \Rightarrow R - 6 : S - 6 = 3 : 4$

$\therefore 4R - 3S = 6$

$B \Rightarrow R + 2 = 0.85(S + 2)$

$17S - 20R = 6$

$C \Rightarrow R + S = 2S - 3$

So solving any two of them, we get R & S.

S5. Ans.(b)

Sol.

From (B), Age of the father =  $\frac{26}{2} \times 13 = 39$  years

From statement, (A) and (C),

$F = 3S, M - S = 22$  and  $3S - M = 4$

Solving the above three equation, we get  $M = 39$  years.

Visual Reasoning

Odd man out

Answer 3: Except 3, all other figure have 3 unshaded and one shaded leaves.

Answer 4: In all 4 elements direction of sector is same as arrow

Answer 3: Direction of arrow in figure 2 and 3 are same.

Answer 4: Figure (4) has a rectangle in place of a '+' sign.

Answer 5: two arrows point towards left and one arrow points towards right.

Fill in blanks

Answer 5: 4 3 2 1 crosses are added to the total in upper and lower side

Answer 2: Track movement and analogies

Answer 5: Alternate steps three four consecutive arcs get inverted

Answer 3: lower left shift to upper left. Upper left to top and top to lower left.

Answer 4: Check the counting of lines

Series

Answer 4: Similar figure repeated in 4th step. Half arrow in right side rotate 180deg

Answer 2: One and two arcs beginning from lower end change directions alternately

Answer 3: Figure rotate by 90 deg CW. Dots and arrows decrease by 1

Answer 4: In each step, the CW-end element moves to the ACW-end position.

Answer 2: Two and one lines are removed from RHS and added to LHS.

Answer 3: The elem on ACW side and in middle move 2 steps ACW. While CW side move ACW.

Answer 3: Dot gets inside the hexagon, in next step it moves ACW and vice versa

Answer 3: Two and one line segment are added alternately

Answer 5: Main figure rotate by 90 deg ACW alternately.

Answer 3: Analogies Lower left and right get interchange and new element

Answer 4: Every element is moving ahead 1 and 2 steps

Answer 5: Analogies. Second arrow goes to last position and first arrow gets inverted

Answer 2: The CW end element moves to ACW side and new element is added on its ACW side

Answer 3: Elem interchange their positions once horizontally and vertically

Answer 3: In step 1, two elem on CW side interchange positions. ACW element move to centre and centre one is replaced.