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**Direction (1-10):** Read the following passage carefully and answer the questions given below. Certain words are printed in bold to help you locate them while answering some of these.

Blogs. Digital photo and video sharing. Podcasts. Rip/Mix/Burn. Tagging. Vlogs. Wikis. These buzzwords point to a fundamental social change fueled by cheap personal computers (PCs) and servers, the Internet and its local wired/wireless feeder networks, and powerful, low-cost software. Citizens have morphed from passive media consumers to digital-media producers and publishers. Libraries and scholars have their own set of buzzwords: digital libraries, digital presses, e-prints, institutional repositories, and open-access (OA) journals, to name a few. They **connote** the same kind of change: a democratization of publishing and media production using digital technology. It appears that we are on the brink of an exciting new era of Internet innovation: a kind of digital utopia. Gary Flake of Microsoft has provided one striking vision of what could be (with a commercial twist) in a presentation entitled "How I Learned to Stop Worrying and Love the Imminent Internet Singularity," and there are many other visions of possible future Internet advances.1 When did this metamorphosis begin? It depends on who you ask. Let's say the late 1980s, when the Internet began to get serious traction and an early flowering of non-commercial digital publishing occurred. In the subsequent twenty-odd years, publishing and media production went from being highly centralized, capital-intensive analog activities with limited and well-defined distribution channels, to being diffuse, relatively low-cost digital activities with the global Internet as their distribution medium. Not to say that print and conventional media are dead, of course, but it is clear that their era of **dominance is waning**. The future is digital. Nor is it to say that entertainment companies (e.g., film, music, radio, and television companies) and information companies (e.g., book, database, and serial publishers) have **ceded** the digital-content battlefield to the upstarts. Quite the contrary. High-quality, thousand-page-per-volume scientific journals and Hollywood blockbusters cannot be produced for pennies, even with digital wizardry. Information and entertainment companies still have an important role to play, and, even if they didn't, they hold the copyrights to a significant chunk of our cultural heritage. Entertainment and information companies have understood for some time that they must adapt to the digital environment or die, but this change has not always been easy, especially when it involves **concocting** and embracing new business models. Nonetheless, they intend to thrive and prosper—and to do whatever it takes to succeed. As they should, since they have an obligation to their shareholders to do so. The thing about the future is that it is rooted in the past. Culture, even digital culture, builds on what has gone before. Unconstrained access to past works helps determine the richness of future works. Inversely,

when past works are inaccessible except to a privileged minority, future works are impoverished. This brings us to a second trend that stands in opposition to the first. Put simply, it is the view that intellectual works are property; that this property should be protected with the full force of civil and criminal law; that creators have perpetual, transferable property rights; and that contracts, rather than copyright law, should govern the use of intellectual works.

1. Which of the following has been one of the consequences of the availability of cheap and powerful digital technology?
  - i. Publishing and media production is no more a privilege of the few
  - ii. It has brought print and conventional media to an end
  - iii. The quality of the content of publishing and media production has severely deteriorated
  - A. Only (i)
  - B. Only (i) and (ii)
  - C. All (i), (ii) and (iii)
  - D. Only (i) and (iii)
  - E. Only (ii)
2. An important factor bolstering the position of entertainment and information companies against the digital content is-
  - A. the inaccessibility of digital content by millions of people
  - B. the issues of intellectual rights with respect to digital content
  - C. the high cost attached with the high quality journals, Hollywood blockbusters etc
  - D. the vulnerability of the distribution medium i.e the global internet
  - E. All of the above
3. According to the passage, the richness of future works can be ensured by:-
  - A. the implementation of perpetual, transferrable property rights
  - B. learning from the past as the future is rooted in it
  - C. preserving our digital heritage
  - D. democratization of publishing and media production
  - E. enabling access to past works without constraints
4. What is the motive of the author behind writing this passage?
  - A. To highlight the plight of entertainment and information companies caused by the advent of digital technology
  - B. To show how digital utopia can be achieved
  - C. To analyse the impact of digital technology on conventional media in the light of copyright laws
  - D. To examine the conflicting situation of intellectual property rights and universal accessibility
  - E. None of these

5. Which of the following statements can be inferred from the given passage?
- The inseparability of the past and the future works has worked out in the favour of conventional media
  - The digital technology has empowered the citizens by enabling their active participation in it
  - Print and conventional media had enjoyed monopoly before the arrival of digital technology
- A. Only (i)                      B. Only (i) and (ii)  
 C. Only (i) and (iii)        D. All (i), (ii) and (iii)  
 E. Only (ii) and (iii)
6. Which of the following is most similar in meaning to the word 'concocting' given in bold as used in the passage?
- A. Faking                      B. Pretending  
 C. Devising                    D. Manipulating  
 E. Uncovering
7. Which of the following is most similar in meaning to the word 'ceded' given in bold as used in the passage?
- A. Conveyed                    B. Acquired  
 C. Contended                  D. Relinquished  
 E. Accepted
8. Which of the following is most similar in meaning to the word 'connote' given in bold as used in the passage?
- A. Provoke                      B. Predicate  
 C. Infer                         D. Instigate  
 E. Demand
9. Which of the following is most opposite in meaning to the word 'dominance' given in bold as used in the passage?
- A. Hegemony                    B. Primacy  
 C. Subjugation                D. Precedence  
 E. Subservience
10. Which of the following is most opposite in meaning to the word 'waning' given in bold as used in the passage?
- A. Ebbing                        B. Receding  
 C. Dwindling                  D. Accentuating  
 E. Eroding

**Direction (11-20):** Read the following passage carefully and answer the given questions. Certain words/phrases are given in bold to help you locate them while answering some of the questions.

The World Bank's agreement with the India-led International Solar Alliance (ISA) to help it mobilise a trillion dollars in investments by 2030 and its billion-dollar programme to support Indian initiatives for expanded solar generation are significant steps in the global transition to a clean energy pathway. While the cost of solar power has been declining, one of the biggest obstacles to a scale-up in developing countries has been the high cost of finance for photovoltaic projects. That problem can be addressed by the ISA through the World Bank partnership, as the agreement will help develop financing instruments, reduce hedging costs and currency risks, and enable technology transfer. India has raised its **ambitions** five-fold

since the time it launched the National Solar Mission, and the target now is an installed capacity of 100 gigawatts by 2022 out of a total of 175 GW from all renewables. Strong policy support is also necessary to improve domestic manufacture of solar cells and panels, which has remained unattractive because cheap imports are available. India's efforts have also suffered a setback, with the adverse WTO ruling against the **stipulation** of a prescribed level of domestic content for solar projects. Developing a strong solar manufacturing industry is essential for sustained economic growth, and to connect those who never had the boon of electricity.

Support from the World Bank for large-scale and rooftop solar deployments, innovative and hybrid technologies, and storage and transmission lines presents an opportunity for India to go the German way and achieve *energiewende*, or energy transition. For instance, the \$625-million grid-connected rooftop solar fund could help strengthen State-level programmes for net **metering**. A transparent regime that enables individuals and communities to plug into the grid without bureaucratic **hurdles** would unlock small-scale private investment. There are several pointers from Germany's experience as a leading solar- and wind-powered nation to prepare for a major ramping up of these green sources. Arguably, the strength and reliability of a power grid capable of handling more power than is available are fundamental to induct higher levels of renewable power. The emphasis here must also be on improving transmission lines: the World Bank programme promises to provide the necessary linkage to solar-rich States. Making power grids intelligent to analyse and give priority to use the output of renewables, accurately forecast the weather to plan next day generation, and viability mechanisms for conventional coal-based plants are other aspects that need attention. Innovation in battery technology is a potential gold mine for the solar alliance and for India to **exploit**.

11. Which among the following is **FALSE** according to the passage given above?
- A. the World Bank programme promises to provide the necessary linkage to solar-rich States  
 B. Innovation in battery technology is a potential gold mine for the solar alliance and for India to exploit  
 C. The \$652-million grid-connected rooftop solar fund could help strengthen State-level programmes for net metering.  
 D. Both A and C  
 E. None of the above
12. As the cost of solar power declined, what proved to be one of the biggest obstacles for a scale-up in developing countries?
- A. necessary to improve domestic manufacture of solar cells and panels  
 B. Innovation in battery technology  
 C. the high cost of finance for photovoltaic projects  
 D. Both A and C  
 E. All of the above

13. According to the passage, what is essential for sustained economic growth and to connect those who have never had electricity?
- Develop a strong solar manufacturing industry
  - Making power grids intelligent to analyse and give priority to use the output of renewables
  - viability mechanisms for conventional coal-based plants are other aspects that need attention
  - both A and C
  - All of the above
14. How according to the passage will the World Bank's agreement with the India-led International Solar Alliance (ISA) help?
- develop financing instruments
  - reduce hedging costs and currency risks
  - and enable technology transfer
  - Only A and C
  - All the above
15. Which of the following would be a suitable title of the passage?
- World Bank and International Solar Alliance (ISA)
  - the solar alliance
  - The World Bank's agreement with the India-led International Solar Alliance (ISA)
  - Sunny times for solar
  - solar energy programme
16. Which among the following is MOST SIMILAR in meaning to the word "ambition"?
- apathy
  - diffidence
  - agitation
  - complacency
  - aspirations
17. Which among the following is MOST OPPOSITE in meaning to the word "hurdles"?
- opening
  - quixotic
  - traverse
  - snag
  - hedge
18. Which among the following is MOST SIMILAR in meaning to the word "stipulation"?
- dearth
  - implication
  - clause
  - provocation
  - request
19. Which among the following is **MOST OPPOSITE** in meaning to the word "metering"?
- measuring
  - Appraising
  - quantifying
  - guessing
  - provoking
20. Which among the following is **MOST SIMILAR in meaning** to the word "exploit"?
- adventure
  - reward
  - treasure
  - honor
  - esteem

**Direction (21-25):** Which of the following among (A), (B), (C), (D) and (E) given below the sentence should replace the set of words printed in **bold** in the sentence to make it grammatically correct?

21. Consumers struggling financially will clearly put cost first, **restricting purchases, shopping at several supermarkets for low prices and avoid impulse buying**

A. restricting purchases, shopping at several supermarkets for low prices and avoid impulse buying

B. restricting purchases, shop at several supermarkets for low prices and avoiding impulse buying

C. restricting on purchases, shopping at several supermarkets for low prices and avoiding of impulse buying

D. restricting purchases, shopping at several supermarkets for low prices and avoiding impulse buying

E. restricting purchases, having shopped at several supermarkets for low prices and avoiding impulse buying

22. The government has banned the current 1000 and 500 Rs notes **to put a check on** corruption and illegal use of fake currency to fund terrorism.

A. to stop

B. to delay

C. to ban

D. to put an end

E. No error

23. After the fee hike that happened a month ago, all the parents have been complaining that these **exorbitant prices are costing them arms and two legs.**

A. exorbitant prices are costing them an arm and a leg.

B. exorbitant prices are costing them their arms and legs.

C. exorbitant prices are costing them the selling of an arm and a leg.

D. exorbitant prices are costing them arms and a leg.

E. No correction required.

24. A regulatory body was expected to come up and **work towards facilitating smooth transfer of power in the country after the democratically elected faction staked its claim** to take over governance from the military.

A. work towards facilitate smooth transfer of power in the country after the democratically elected faction staked its claim

B. work towards facilitating smooth transfer of power in the country after the democratically elected faction staked its claim

C. work towards facilitating smooth transferring to power in the country after the democratically elected faction staked its claim

D. work by facilitating smooth transfer of power in the country after the democratically elected faction staked its claim

E. work towards facilitating smooth transfer of power in the country during the democratically elected faction staked its claim

25. The trees **shed his leaves every time autumn approaches but a healthy tree always gets** its leaves back in the spring, which explains the point that fighting spirit is enough to keep one afloat.

- A. Has shed their leaves every time autumn approaches but a healthy tree always gets  
 B. shed their leaves every time autumn approaching but a healthy tree always gets  
 C. have shed their leaves every time autumn approached but a healthy tree always gets  
 D. shed its leaves every time autumn approaches but a healthy tree always get  
 E. shed their leaves every time autumn approaches but a healthy tree always gets

**Directions (26-35):** Two statements with blanks have been given. These statements are followed by five alternatives. Choose the one which fits into the set of statements.

26. i. A lucky accident had ordained that the Austrian army should \_\_\_\_\_ the previous year on the very fields where the French had now to be fought.  
 ii. During the seasonal sales at the mall, it is often impossible to \_\_\_\_\_ one's shopping cart through the crowded store aisles.  
 A. Shove  
 B. Promenade  
 C. Amble  
 D. Proceed  
 E. Manoeuvre
27. (i) It was a/an \_\_\_\_\_ error on the part of the rescue diver to be so lethargic.  
 (ii) Life gives you a number of moments to commit \_\_\_\_\_ mistakes, but how you handle and overcome them is a test of character.  
 A. Unpredictable  
 B. Negligible  
 C. Silly  
 D. Blatant  
 E. Wonderful
28. (i). There was a lot of \_\_\_\_\_ over the quality of the goods received by the importer.  
 (ii). The question was referred for arbitration to the emperor of Austria, whose award published in 1880, upheld the \_\_\_\_\_ of the Indians.  
 A. Contention  
 B. Discussion  
 C. Upheaval  
 D. Ruling  
 E. Verdict
29. (i). The terms of most industrial issues were \_\_\_\_\_ between the investment banking firm and the corporation issuing the securities  
 (ii). By the end of the day, the rangers had \_\_\_\_\_ only half the distance through the dense dark forest.  
 A. Decided  
 B. Agreed upon  
 C. Negotiated  
 D. Worked  
 E. Discovered
30. (i) A troubled student and his PhD guide \_\_\_\_\_ a way for websites to reduce the incidence of spam which troubled internet users in the 2000s.  
 (ii) One of the biggest drawbacks of concrete is that it often develops cracks and scientists have now \_\_\_\_\_ self-healing concrete.  
 A. Create  
 B. Devised  
 C. Develop  
 D. Thought  
 E. invent

31. (i) The state museum building was \_\_\_\_\_ after the finishing touches were aglow in sunlight delighting the audience.  
 (ii) Their 50<sup>th</sup> anniversary was a special occasion for the entire family as it came in the light of the newly resolved issues and it turned out to be a \_\_\_\_\_ affair.  
 A. Enamored  
 B. Splendid  
 C. Reverberating  
 D. Incongruous  
 E. Surprising
32. (i). It is hard to believe the \_\_\_\_\_ of operations involved in this activity.  
 (ii). The map is drawn to a \_\_\_\_\_ of 1 inch to 50 km.  
 A. Magnitude  
 B. size  
 C. Scale  
 D. Proportion  
 E. Significance
33. (i) Governments in these countries should create education systems since \_\_\_\_\_ good schools the bulk of people entering the world force will not have the skills they need.  
 (ii) We cannot process colour, details of rapid changes in our surroundings \_\_\_\_\_ the cone shaped cells packed around the centre of the retina.  
 A. Lack  
 B. missing  
 C. deficient  
 D. without  
 E. absence
34. (i). The new born baby found \_\_\_\_\_ outside the city hospital last week was adopted by the mayor.  
 (ii). The political party has \_\_\_\_\_ its policy of minority appeasement after its recent defeat in the general elections.  
 A. Left  
 B. Abandoned  
 C. Sited  
 D. Rescued  
 E. Located
35. (i) The federal budget unable to do so with its current constraints, the whole purpose of devolution could be defeated by the potential for near- \_\_\_\_\_ of service delivery to the common citizen.  
 (ii) Most of the schools having been partially damaged, including the \_\_\_\_\_ of boundary walls, classroom damage, furniture, etc  
 A. dead  
 B. collapse  
 C. dropping  
 D. smashing  
 E. slipping

**Direction (36-40):** Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in a proper sequence to form a meaningful paragraph: then answer the questions that follow.

- A) Financial conditions in global markets are favourable at the moment, but a significant tightening could put pressure on both private sector and government finances—which could then affect growth prospects in these economies.  
 B) It is now working on a new fiscal framework aimed at reducing both the fiscal deficit and the debt stock in the coming years.

- C) Government finances have worsened in emerging market economies at a time when debt in the private sector has also gone up sharply.  
 D) The World Bank's new Global Economic Prospects report has highlighted increasing fiscal vulnerabilities in some emerging market and developing economies (EMDEs).  
 E) According to the report, in more than half the EMDEs, government debt has gone up by more than 10 percentage points of gross domestic product, while fiscal balance has deteriorated by five percentage points in one-third of the economies between 2007 and 2016.  
 F) India, meanwhile, has done well in recent years by lowering the fiscal deficit.
36. Which of the following sentence should be the FIRST after rearrangement?  
 A. D                                      B. C  
 C. B                                      D. A  
 E. E
37. Which of the following sentence should be the LAST after rearrangement?  
 A. C                                      B. B  
 C. A                                      D. D  
 E. E
38. Which of the following sentence should be the THIRD after rearrangement?  
 A. A                                      B. D  
 C. C                                      D. B  
 E. E
39. Which of the following sentence should be the SECOND after rearrangement?  
 A. B                                      B. E  
 C. A                                      D. D  
 E. C
40. Which of the following sentence should be the FOURTH after rearrangement?  
 A. A                                      B. C  
 C. D                                      D. B  
 E. E

**Direction (41-50):** A sentence is divided into three parts I, II and III. For each part a correction statement is given. Determine the part which requires correction and mark it as your answer.

41. There was no requiring of a legislation to implement this order, / the functionary added and pointed up that anyone persisting with the practice of, / instant talaq could be prosecuted under domestic violence laws.  
 I. There was no requirement of a legislation to implement this order  
 II. the functionary added and pointed out that anyone persisting with the practice of  
 III. instant talaq could be prosecuting under domestic violence laws.  
 A. Only III  
 B. Both I and II  
 C. Both II and III  
 D. Both I and III  
 E. Only I

42. The government strongly back the judgment and would, / consider the issue in a structured manner as this, / was the beginning of the fight of equality for Muslim women.  
 I. The government strongly backed the judgement and would  
 II. consider the issue in a structured manner as this  
 III. was the beginning of the fight for equality for Muslim women.  
 A. Only III                                      B. Only II  
 C. Both I and II                                      D. Both I and III  
 E. Both II and III
43. The Muslim family affairs in India are governed by the Muslim Personal Law Application Act, / one of the first acts to passage after the Government of India Act, 1935 became, / operational, introducing provincial autonomy.  
 I. The Muslim family affairs in India are governed by the Muslim Personal Law Application Act,  
 II. one of the first acts to pass after the Government of India Act, 1935 became  
 III. operational, introducing provincial autonomy  
 A. Only III                                      B. Both II and III  
 C. Only II                                      D. Both I and III  
 E. Only I
44. China has had a remarkable period of growth shifting, / from a centrally planned upon a market based economy, /and today it is an upper middle income country.  
 I. China has had a remarkable period of growth shifted  
 II. from a centrally planned to a market based economy  
 III. and today it has been an upper middle income country  
 A. Only II                                      B. Only III  
 C. Both I and III                                      D. Both II and III  
 E. Both I and II
45. She stared at the sky wondered where her, / mother could be and if she would be able to, / see her again and tell her how much she loved.  
 I. She stared at the sky wondering where her  
 II. mother could be and if she would be able to  
 III. see her again and tell her how much she loved her  
 A. Only III                                      B. Both II and III  
 C. Both I and III                                      D. Both I and II  
 E. Only II
46. Though two judges upheld validity of triple talaq, / the three other judge held that it was, / unconstitutional, thus barring the practice by 3-2 majority.  
 I. In spite two judges upheld validity of triple talaq,  
 II. the three other judges held that it was  
 III. unconstitutional, thus barring the practice by 3-2 majority.  
 A. Only III                                      B. Both II and III  
 C. Only I                                      D. Only II  
 E. Both I and II

47. With a population of 1.3 billion, China is the second largest, / economy and is increasingly playing an important and, / influencing role in development and in the global economy.  
I. With a population with 1.3 billion, China is the second largest  
II. economy and is increasingly played an important and  
III. influential role in development and in the global economy  
A. Only II                                    B. Only III  
C. Only I                                      D. Both II and III  
E. Both I and III
48. Rapid economic ascendance has brought many challenges, / including high inequality; rapid urbanization; challenges of, / environmental sustainability; and external imbalances.  
I. Rapid economic ascendance has brought on many challenges  
II. high inequality; rapid urbanization; challenges to  
III. environmental sustainability; and external imbalance  
A. Only III                                    B. Both I and II  
C. Both I and III                          D. Only II  
E. Only I
49. Experience show that transitioning from, / middle-income to high-income status can be most difficult, / than moving up from low to middle income.  
I. Experience shows that transitioning from  
II. middle-income to high-income status can be more difficult  
III. than move up from low to middle income  
A. Both I and III                          B. Both II and III  
C. Only III                                    D. Only I  
E. Both I and II
50. They highlight the development of services and measures, / to address environmental and social imbalances, / set targets to reduce pollution and to increase energy efficiency.  
I. They highlight the development of service and measure  
II. to address environmental and social imbalance  
III. setting targets to reduce pollution and to increase energy efficiency  
A. Only III                                    B. Only I  
C. Both II and III                          D. Both I and III  
E. Both I and II

**Direction (51-55):** In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically does not follows from the given statements disregarding commonly known facts.

51. **Statements:**  
All perks are fees.  
Some wages are fees.  
All comforts are wages.  
**Conclusion:**  
I. Some comforts are not perks.  
II. All comforts are perks.

- III. All perks are wages.  
IV. Some fees are comforts.  
A. All follow.  
B. Either I or II follow.  
C. Only I or II follow.  
D. Only III and either I or II follow.  
E. Only IV and either I or II follow.

52. **Statements:**  
All monkeys are Donkeys  
No Donkey is peacock  
All peacocks are Tigers  
**Conclusions:**  
**I.** No peacock is a monkey  
**II.** All Donkeys being Tigers is a possibility  
**III.** All Monkeys being Tigers is a possibility  
**IV.** Some Donkeys are peacocks  
A. Only I follow  
B. Only II follows  
C. Only I, II and III follow  
D. All follow  
E. None follows

53. **Statements:**  
Some tables are machines  
Some flats are books  
All books are tents  
All tents are walls  
**Conclusions:**  
I. All tables being book is a possibility  
II. All tents are not books  
III. No machine is wall.  
A. None follows  
B. Only I follows  
C. Either I or III follows  
D. II and III follow  
E. Only II follows

54. **Statements:**  
All tables are mirrors.  
Some mirrors are chairs.  
All chairs are glasses.  
Some glasses are cups.  
**Conclusions:**  
(I.) All tables being glasses is a possibility.  
(II.) All mirrors being chair as well as glass are a possibility.  
(III.) Some mirrors are tables.  
(IV.) All glasses being cup is a possibility.  
A. Only I                                    B. Only II  
C. Only III                                    D. Only IV  
E. All follows

55. **Statements:**  
Some pickles are spices.  
All balls are chats.  
No ball is a spice.  
**Conclusion:**  
I. All pickles being chats is a possibility.  
II. Some chats are spices.  
III. All pickles are balls.  
IV. All chats are spices.  
A. Only conclusion I does not follow  
B. Only conclusion II does not follow  
C. Only conclusion II & III does not follow  
D. None of the given option  
E. Conclusion II, III & IV does not follow

**Direction (56-60):** Study the information given below and answer the question based on it.

Seven persons P, Q, R, S, T, U and V watched movies on different days starting from Monday to Sunday. They watch i.e. Logan, Avatar, Inception, Superman, Thor, Avengers and Batman, but not necessarily in the same order. 3 persons watched movie between U and the one who watched Avengers and U watched movie before the one who watched Avengers but not on Monday. P watched Inception with a gap of a day, before the one who watched Avengers. One person watched movie between P and the one who watched Logan. Q watched Avatar just before U. One person watched movie between Q and T. T didn't watch movie on Thursday. S watched Batman before R who watched Thor.

56. Who among the following watched on Monday?  
A. P  
B. Q  
C. T  
D. U  
E. V
57. T watched which of the following movie?  
A. Superman  
B. Avengers  
C. Logan  
D. Batman  
E. None of these
58. How many persons watched movie between P and R?  
A. None  
B. 1  
C. 2  
D. 3  
E. 4
59. 'Superman' is related to Monday in the same way as 'Avengers' is related to Thursday. Likewise, 'Thor' would be related to?  
A. Friday  
B. Saturday  
C. Sunday  
D. Tuesday  
E. Wednesday
60. Which of the following is true regarding 'V'?  
A. 'V' watches 'Inception'  
B. 'V' does not watch the movie on 'Saturday'.  
C. 'V' watches the movie on Thursday  
D. Both 'A' & 'B'  
E. None of these

**Directions (61-65):** In these questions, a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer:

61. **Statements:**  $I > J = K \leq L, M < N \leq O = P \geq Q > K$   
**Conclusions:**  
**I.**  $L > J$   
**II.**  $L = J$   
A. Only conclusion I is true  
B. Only conclusion II is true  
C. Either conclusion I or II is true  
D. Neither conclusion I nor II is true  
E. Both conclusion I and II are true
62. **Statements:**  $I > J = K \leq L, M < N \leq O = P \geq Q > K$   
**Conclusions:**  
**I.**  $I > K$   
**II.**  $Q > J$

- A. Only conclusion I is true  
B. Only conclusion II is true  
C. Either conclusion I or II is true  
D. Neither conclusion I nor II is true  
E. Both conclusion I and II are true

63. **Statements:**  $A = M > P, N > R, A > T$   
**Conclusions:**

- I.**  $T = P$   
**II.**  $R < A$   
A. If only conclusion I follow.  
B. If only conclusion II follow.  
C. If either conclusion I or conclusion II follows.  
D. If neither conclusion I nor II follows.  
E. If both conclusion I and II follows.

64. **Statements:**  $X = M < A < S = T < R$   
**Conclusions:**

- I.**  $M = T$   
**II.**  $R > A$   
A. If only conclusion I follow.  
B. If only conclusion II follow.  
C. If either conclusion I or conclusion II follows.  
D. If neither conclusion I nor II follows.  
E. If both conclusion I and II follows.

65. **Statements:**  $Y > A < N, Y = B < P$   
**Conclusions:**

- I.**  $P > A$   
**II.**  $N > B$   
A. If only conclusion I follow.  
B. If only conclusion II follow.  
C. If either conclusion I or conclusion II follows.  
D. If neither conclusion I nor II follows.  
E. If both conclusion I and II follows.

**Directions (66-70):** Study the following information carefully and answer the questions given below:

P, Q, R, S, T, U, V and W are eight friends who live in an eight-storey building. The ground floor is numbered one and the topmost floor is numbered eight. Each of them belong to different cities, Jaipur, Kolkata, Delhi, Mumbai, Pune, Raipur, Ranchi and Patna but not necessarily in the same order. There is only one floor between P and the one who belongs to Patna lives. The person who belongs to Patna does not live on floor numbered 1. S lives just below Q. The one who belongs to Jaipur lives an even numbered floor and just above the floor on which the one who belongs to Pune lives. The person who belongs to Raipur lives on an even numbered floor but not on the 8<sup>th</sup> floor. Neither S nor W lives on the 1<sup>st</sup> floor. Only one person lives between the one who belongs to Ranchi and S. P lives on an odd-numbered floor and T lives just above P. Q lives on the fourth floor. Only two persons live between the person who belongs to Raipur and P. U lives just below the one who belongs to Pune. S belongs to neither Pune nor Patna. The one who belongs to Delhi does not live on an odd-numbered floor. V does not belong to Kolkata. There are two floors between the floor on which W lives and the floor on which T lives. Only two persons live between the one who belongs to Mumbai and the one who belongs to Delhi.



66. Who among the following belongs to Kolkata?  
 A. S B. R  
 C. P D. V  
 E. None of these
67. How many persons are there between T and Q?  
 A. One B. Two  
 C. Three D. Four  
 E. None of these
68. Who among the following lives on the topmost floor?  
 A. The one who belongs to Jaipur  
 B. The one who belongs to Pune  
 C. The one who belongs to Delhi  
 D. The one who belongs to Mumbai  
 E. None of these
69. Which of the following combinations is/are true?  
 A. Floor no. 2- S- Mumbai  
 B. Floor no. 5- U- Patna  
 C. Floor no. 1- R-Kolkata  
 D. Floor no. 8- T- Jaipur  
 E. None of these
70. P belongs to which of the following city?  
 A. Delhi B. Mumbai  
 C. Jaipur D. Pune  
 E. None of these

**Directions (71-75):** Study the following information and answer the question given.

In a certain code language, 'increase money in market' is written as 'xo ki bc to', 'value in market loss' is written as 'wo to le ki', 'making increase loss now' is written as 'pu le xo na', 'now the market decrease' is written as 'bo ki co pu'.

71. Which of the following does 'wo' stand for?  
 A. loss B. in  
 C. value D. market  
 E. either in or loss
72. What is the code for 'making'?  
 A. na B. pu  
 C. le D. xo  
 E. cannot be determined
73. Which of the following is the code for 'decrease'?  
 A. pu B. ki  
 C. co D. bo  
 E. either co or bo
74. Which of the following can be the code for 'the increase you value'?  
 A. bo co xo wo  
 B. wo wiz xo bc  
 C. wo xo wi bu  
 D. yo jo vo wi  
 E. None of these
75. 'to na ki bc' is a code for which of the following?  
 A. value increase in market  
 B. now value increase money  
 C. the decrease in market  
 D. making money in market  
 E. None of These

**Direction (76-80):** Read the following information carefully and answer the question given below:

A family of eight people P, Q, R, S, T, U, V & W are sitting around a square table in such a way that each of the female is sitting between two males and vice versa. Four persons are sitting at the middle of each side of the table and facing towards the center of the table. All the mothers present in that family facing their own respective daughters. P is the sister of Q. W is the son in law of S. W is sitting 3<sup>rd</sup> to the left of S. U is sitting 3<sup>rd</sup> to the right of R. R is the wife of U. R is the mother of Q. Grandmother of Q is sitting to his first left. Granddaughter of T is sitting to his first right. Only S is sitting between U & Q. Mother of U is sitting to his first right and father is sitting to his 2<sup>nd</sup> left.

76. Who is the daughter of T?  
 A. V B. P  
 C. S D. Q  
 E. None of these
77. Who is sitting at first right of the wife of U?  
 A. W B. Q  
 C. U D. P  
 E. None of these
78. Which of the following persons are sitting between W and S?  
 A. P, R B. Q, P  
 C. Q, R D. V, T  
 E. None of these
79. What is position of the daughter of U with respect to U?  
 A. 1<sup>st</sup> left B. 2<sup>nd</sup> right  
 C. 3<sup>rd</sup> left D. 2<sup>nd</sup> right  
 E. None of these
80. Which of the following is not correct according to their position in the table?  
 A. Q, R, T B. S, U, P  
 C. W, P, T D. Q, U, W  
 E. None of these

**Direction (81-85):** Study the following information and answer the questions:

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

**Input:** clean 26 alarm 11 receive income 37 92 mouth 49 unfortunate 70

**Step I:** 26 clean alarm 11 receive income 37 92 mouth unfortunate 70 49

**Step II:** 70 26 clean alarm 11 receive income 92 mouth unfortunate 49 37

**Step III:** 92 70 26 clean alarm receive income mouth unfortunate 49 37 11

**Step IV:** clean 92 70 26 alarm receive income mouth 49 37 11 unfortunate

**Step V:** mouth clean 92 70 26 alarm receive 49 37 11 unfortunate income

**Step VI:** receive mouth clean 92 70 26 49 37 11  
unfortunate income alarm

And Step VI 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:** enough 57 plum 12 67 sense other 44  
amount 71 hill 98

81. Which element is fourth to the right of the one which is ninth from the right end in step III of given arrangement?  
A. other B. 44  
C. amount D. sense  
E. None of these
82. Which element exactly between 'enough' and 'sense' in Step IV?  
A. amount B. Plum  
C. 67 D. 12  
E. None of these
83. How many steps required for this arrangement?  
A. Six B. Five  
C. Seven D. Four  
E. None of these
84. Which of the following is Step V?  
A. hill 98 44 12 enough plum sense amount 71 67 57 other  
B. sense plum hill 98 44 12 71 67 57 other enough amount  
C. 12 enough 57 plum 67 sense other 44 amount hill 98 71  
D. plum hill 98 44 12 sense amount 71 67 57 other enough  
E. None of these
85. Which of the following fifth from the left of '67' in the last step?  
A. 98 B. hill  
C. plum D. None  
E. None of these

**Direction (86-90):** Study the following information and answer the questions:

Ten people are sitting in two parallel lines having five persons each, such that there is an equal distance between adjacent persons. Q, R, S, T and U are sitting in the south facing row while V, W, X, Y and Z are sitting in the north facing row. Thus, each person is opposite exactly one other person. Each of them likes Different colors viz- Red, Pink, Black, White, Blue, Yellow, Brown, Orange, Grey and Green but not necessarily in the same order.

- a. Z, who likes Red, is second to the right of Y.  
b. V sits exactly opposite the person who likes Yellow.  
c. The person who likes Grey does not sit at any of the extreme ends.  
d. T sits third to the right of R, who is at one of the ends.  
e. The person who likes Blue faces north and sits exactly opposite to the person who likes Brown.

f. The person who likes White is second to the left of Q.

g. W, who sits at one of the ends, sits exactly opposite to the person who likes Black.

h. The person who likes Pink sits exactly opposite to Q, who is second to the left of U.

i. Neither S nor T likes Yellow.

j. The one who likes Red is to the immediate left of the one who likes Green.

86. Who sits second to the left of V?  
A. Y B. W  
C. Z D. X  
E. None of these
87. Who among the following likes Blue?  
A. W B. V  
C. Y D. Q  
E. None of these
88. In the given arrangement if 'W' is related to 'T', 'V' is related to 'S' then the same way who among the following is related to 'R'?  
A. Z B. Y  
C. U D. Can't be determined  
E. None of these
89. How many people live between U and T?  
A. Two B. Three  
C. One D. None  
E. Four
90. The person who is exactly opposite to the person who is to the immediate right of Q likes which color?  
A. Pink B. Blue  
C. Brown D. Red  
E. None of these

**Direction (91-95):** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

91. How is 'healthy' coded in the language?  
I. In that code language 'eat and drink healthy' is written as 'seta pa me and 'drink hot beverages' is written as 'ta nu fa'.  
II. In that code language 'eat hot meal daily' is written as fa me la du' and 'cold and hot' is written as 'pa fa ga'.  
A. If the data in Statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.  
B. If the data in Statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.  
C. If the data in either Statement I alone or statement II alone are sufficient to answer the question.  
D. If the data in both the Statements I and II together are not sufficient to answer the question.  
E. If the data in both the Statements I and II are together necessary to answer the question.

92. A is the mother of C. How is C related to D?  
 I. D is the only daughter of A.  
 II. D is the sister of C  
 A. if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.  
 B. if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.  
 C. if the data in statement I alone or in statement II alone are sufficient to answer the question.  
 D. if the data even in both statements I and II together are not sufficient to answer the question.  
 E. if the data in both statements I and II together are necessary to answer the question.
93. Tower 'P' is in which direction with respect to tower 'Q'?  
 I. P is to the west of H, which is to the South of Q.  
 II. F is to the west of Q and to the North of P.  
 A. The data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.  
 B. The data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.  
 C. The data in Statement I alone or in Statement II alone are sufficient to answer the question.  
 D. The data in both the Statements I and II are not sufficient to answer the question.  
 E. The data in both the Statements I and II together are necessary to answer the question.
94. Who reached the station first among L, M, J, T and R. if no two persons reached together?  
 I. M reached only after J and T.  
 II. L reached before R.  
 A. The data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.  
 B. The data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.  
 C. The data in Statement 1 alone or in Statement II alone are sufficient to answer the question.  
 D. The data in both the Statements I and II are not sufficient to answer the question.  
 E. The data in both the Statements I and II together are necessary to answer the question.
95. On which day of the same week is Neha's birthday? (Monday being the first day of the week)  
**I.** Ramesh correctly remembers that Neha's birthday is on a day after Tuesday, but before Friday of the same week.  
**II.** Kiran correctly remembers that Neha's birthday is on a day after Monday, But before Thursday of the same week.  
 A. The data in Statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.  
 B. The data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.  
 C. The data in either Statement I alone or Statement II alone are sufficient to answer the question.  
 D. The data in both the Statements I and II are not sufficient to answer the question.  
 E. The data in both the Statements I and II are together necessary to answer the question.
96. **Direction:** In each of the following question, two statements are given. They may either be independent causes, independent effects or bear a cause and effect relationship that is unique to each other. Read both the statements carefully and mark:  
**Statements:**  
 I. Rural household have more surplus money than semi urban household even though the monthly income is the same.  
 II. Semi urban households have to spend more money for basic accommodation, water electricity etc.  
 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
97. In the question below there is a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true. Then consider the 2 conclusions together and decide which of them follows beyond a reasonable doubt from the information given in the statement.  
**Statement:** Lenovo launched a new laptop and students can buy it for a special offer price.  
**Conclusions:**  
 I. Only students can buy the new laptop  
 II. Lenovo wants to offer affordable laptops to students.  
 A. Only conclusion I follows  
 B. Only conclusion II follows  
 C. Both conclusion I and II follows  
 D. Neither conclusion I nor II follows
98. **Direction:** In the given question, a statement is given with some assumptions as options. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.  
**Statement:**  
 The school, which used to provide free breakfast to ensure that the students receive at least one proper meal a day, stopped the facility from January as the Charity Society which used to fund the breakfast withdrew the support due to drop in donations.  
 Which of the following is an assumption implicit in the above statement?  
 A. The students may not receive any proper meal in a day from January  
 B. In future the donation to the Charity Society may further decrease.  
 C. The donations received by the Charity Society are used for social welfare.

D. The families either do not have the ability to provide proper meal to their children or ignorant of what a proper meal is.  
E. None of these.

99. **Direction:** In the questions below, a statement is given followed by two arguments. Choose the most appropriate option depending on which argument strengthens the given statement.

**Statement-** Study of Politics should be made compulsory in school

**Arguments:**

I. Yes, an informed electorate is the key to strong democracy

II. No, politics and education should not be mixed as it will affect education

- A. If only argument I is strong  
B. If only argument II is strong  
C. If either I or II is strong  
D. If neither I nor II is strong  
E. If both I and II Argument is strong.
100. **Direction:** In each question below is given a statement followed by two courses of action numbered I and II. You have to assume everything in the statement to be true and on the basis of the information given in the statement. Decide which of the suggested courses of action logically follow(s) for pursuing. Give answer:  
Indian railway does not provide services and thus results in lot of hardship and inconveniences.

**Course of Action-**

I. Passenger should immediately complain to rail minister on his twitter handle.

II. Register a complain to prime minister grievance redressal sale.

- A. If only course of action I follow  
B. If only course of action II follows  
C. If both the course of action follows  
D. if neither course of action follows  
E. Data inadequate
101. What will come in place of the '?' in the given series.  
3.5, 4, 5, 8, 20, ?  
A. 60 B. 70  
C. 80 D. 90  
E. None of these
102. What will come in place of the '?' in the given series.  
88, 86, 95, 67, 132, ?  
A. 6 B. 17  
C. 9 D. 24  
E. 29
103. What will come in place of the '?' in the given series.  
3, 4, 9, 28, 113, ?  
A. 540 B. 566  
C. 587 D. 592  
E. None of these
104. What will come in place of the '?' in the given series.  
500, 491, 478, 449, 384, ?  
A. 200 B. 206  
C. 211 D. 255  
E. 237

105. What will come in place of the '?' in the given series.

9, 5, 6, 10.5, 23, ?

- A. 160 B. 165  
C. 170 D. 175  
E. 180

**Direction (106-110):** Study the following information and answer the question given below.

The table shows the number of the ticket of 5 movies sold in 6 different cities of India (in thousands).

	DANGAL	AIRLIFT	SULTAN	NEERJA	M.S. DHONI
DELHI	18	16	22	19	21
MUMBAI	24	21	18	17	12
HYDERABAD	20	14	25	28	15
AHMEDABAD	23	11	28	23	32
BANGALORE	16	15	24	22	28
MANALI	13	18	20	14	21

106. The Maharashtra government imposed an additional 8% on number of movie tickets priced between INR 251 and INR 350 if and only if the number of tickets are more than 10000. However, tickets costing between INR 1 and INR 250 will see no fresh levy. The government has also allowed theatre owners to collect INR 11 as service charges on the tickets. 45% of the sold Dangal tickets in Mumbai ranged between INR 1 to 250. How much revenue was generated by the theatre and government on movie Dangal in Mumbai?  
A. INR 1056 B. INR 254000  
C. INR 263944 D. INR 265056  
E. None of these
107. If the number of tickets of film Neerja sold in these six cities is 75% of the total tickets of film Neerja sold in India and the total number of ticket sold over the globe except India is 36% of the total number of ticket sold over the globe. Find the total number of tickets sold over the globe?  
A. 256250 B. 455555  
C. 228000 D. 328500  
E. 252500
108. 7% of the total sold Airlift tickets of Manali were sold by one multiplex. If the cost of tickets for movie Airlift is 120 for children and 250 for adults. INR 274050 was collected in total for movie Airlift by the multiplex. How many tickets of each type were sold?  
A. 450, 550 B. 335, 925  
C. 315, 945 D. 435, 565  
E. None of these
109. Anita buys 2 sultan tickets, 1 Dangal ticket and 3 Neerja tickets for a total of INR 1500. Gunjan buys 1 sultan ticket, 2 Dangal ticket and 2 Neerja tickets for INR 1225. Khushboo buys 2 sultan tickets, 3 Dangal tickets and 1 Neerja tickets for INR 1200. How much movie did Sultan collect from Bangalore if the price of the ticket is same all over India?  
A. INR 48,00,000 B. INR 30,00,000  
C. INR 84,00,000 D. INR 34,00,000  
E. INR 40,00,000

110. A theatre box office in Ahmedabad sold an average of 65 tickets per customers of M.S. Dhoni. The theatre holds 15% share in the total M.S. Dhoni tickets sold in Ahmedabad. In the daytime, the average number sold per customer was 76, and in the evening, the average number sold was 60. If there are no other customers, then the number of tickets sold in the night is what percentage of total M.S. Dhoni tickets sold in Hyderabad?
- A. 20.5%                      B. 21%  
 C. 20%                         D. 22%  
 E. Cannot be determined

111. **Directions:** What value should come in place of question mark (?) in the following question?  
 68% of 595-45% of 372=?
- A. 257.5                      B. 237.2  
 C. 265.4                      D. 237.6  
 E. 279.2

112. **Direction:** What approximate value should come in place of the question mark (?) in the following equation (Note: You are not expected to calculate the exact value)?

$$\frac{49.84}{\sqrt{5.2}} \times 18.12 = 62.21 \times \sqrt{7}$$

- A. 34                              B. 26  
 C. 90                             D. 64  
 E. 104
113. **Direction:** What value should come in place of the question mark (?) in the following question?

$$\frac{(\?)^{\frac{9}{4}}}{324} = \frac{(\?)^{\frac{1}{4}}}{9}$$

- A. 27                              B. (36)<sup>2</sup>  
 C. 6                                D. 36  
 E.  $\sqrt{6}$

114. **Direction:** What approximate value should come in place of the question mark (?) in the following equation (Note: You are not expected to calculate the exact value)?  
 71% of 259 - 63.21 = ? - 5% of 910
- A. 50                              B. 164  
 C. 310                          D. 288  
 E. 950

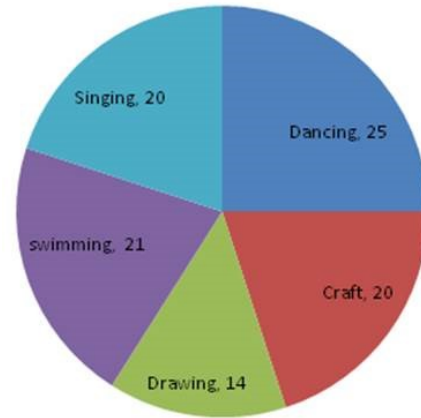
115. **Direction:** What value should come in place of the question mark (?) in the following question?

$$2\frac{3}{7} - 2\frac{1}{4} - 1\frac{1}{4} + 1\frac{1}{28} = ?$$

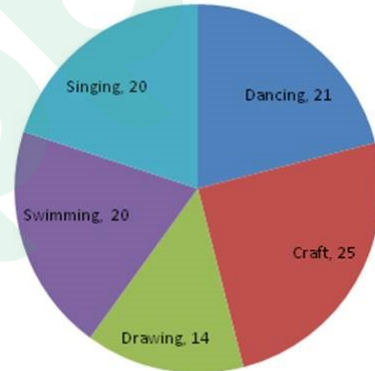
- A.  $\frac{1}{7}$                               B.  $1\frac{1}{7}$   
 C.  $1\frac{1}{14}$                           D.  $\frac{2}{7}$   
 E. None of these

**Direction (116-120):** Study the pie-chart carefully to answer the following questions

**Percentage of students enrolled in different activities in a school (Total student = 4000)**



**Percentage break up of girls enrolled in these activities (total number of girls = 2500)**



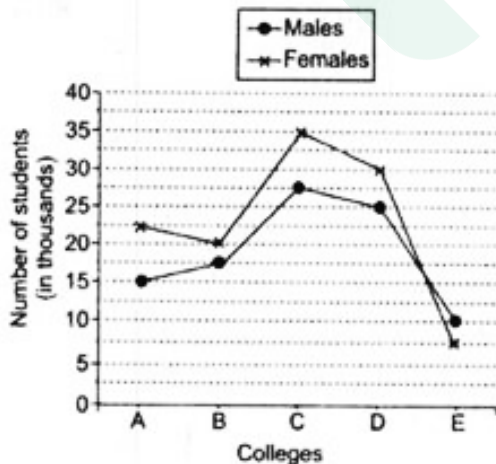
116. What is the approximate percentage of boys in the school?  
 A. 52%                              B. 56%  
 C. 35%                              D. 40%  
 E. 38%
117. How many boys are enrolled in Singing and Craft together?  
 A. 475                              B. 520  
 C. 640                              D. 810  
 E. None of these
118. What is the total number of girls enrolled in Swimming and Drawing together?  
 A. 800                              B. 850  
 C. 840                              D. 920  
 E. None of these
119. Number of girls enrolled in Dancing is what per cent of total number of students in the school (rounded off to two digits after decimal)  
 A. 16.25%                          B. 14.25%  
 C. 13.12%                          D. 9.65%  
 E. None of these
120. What is the respective ratio of number of girls enrolled in Swimming to the number of boys enrolled in Swimming?  
 A. 3:4                                B. 7:9  
 C. 17:25                             D. 25:17  
 E. None of these

**Direction (121-125):** In the following question, two equations I and II are given. Solve the equations and give your answer accordingly:

121. I.  $5X^2 + 28X + 15 = 0$   
 II.  $6Y^2 + 35Y + 25 = 0$   
 A. If  $X > Y$  B. If  $Y > X$   
 C. If  $X \geq Y$  D. If  $Y \geq X$   
 E. If  $x = y$  or a relationship between  $x$  and  $y$  cannot be established.
122. I.  $12x^2 + 82x + 140 = 0$   
 II.  $16y^2 + 48y + 32 = 0$   
 A.  $x > y$  B.  $x \geq y$   
 C.  $x < y$  D.  $x \leq y$   
 E.  $x = y$  or the relationship cannot be established
123. I.  $4X^2 - 48X + 143 = 0$   
 II.  $4Y^2 - 52Y + 165 = 0$   
 A. If  $X > Y$  B. If  $Y > X$   
 C. If  $X \geq Y$  D. If  $Y \geq X$   
 E. If  $x = y$  or a relationship between  $x$  and  $y$  cannot be established.
124. I.  $X^2 + 4X = 21$   
 II.  $Y^2 - 6Y + 8 = 0$   
 A.  $X > Y$  B.  $Y > X$   
 C.  $X \geq Y$  D.  $Y \geq X$   
 E.  $x = y$  or a relationship between  $x$  and  $y$  cannot be established.
125. I.  $\frac{8}{\sqrt{x}} + \frac{6}{\sqrt{y}} = \sqrt{x}$   
 II.  $y^2 - (14^{5/2} / y^{1/2}) = 0$   
 A.  $x > y$  B.  $x \geq y$   
 C.  $x < y$  D.  $x \leq y$   
 E.  $x = y$  or the relationship cannot be established

**Directions (126-130):** Study the following graph carefully and answer the questions below it.

**Number of Students (Males and Females) Passed Out from Various Colleges in a Year. (Number in thousands)**



126. What is the average number of students (Males and Females) passed out from all the colleges together?  
 A. 38000 B. 48000  
 C. 42000 D. 51000  
 E. None of these

127. The number of females passed out from college C is approximately what per cent the total number of females passed out from all the colleges together?  
 A. 28 B. 30  
 C. 36 D. 25  
 E. 40
128. What is the difference between the total number of students passing out from college A and the total number of students passing out from college E?  
 A. 20500 B. 21000  
 C. 10500 D. 10000  
 E. None of these
129. What is the respective ratio of the total number of males to the total number of females passed out from all the colleges together?  
 A. 19 : 23 B. 18 : 25  
 C. 23 : 19 D. 25 : 18  
 E. None of these
130. The number of males passing out from colleges A and B together is what per cent of the number of females passing out from colleges C and D together?  
 A. 45 B. 40  
 C. 35 D. 50  
 E. None of these

**Directions (131-135):** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the questions.

131. In a class of 180 students, how many girls scored over 70% in the Chemistry test?  
 I. Exactly 15 boys scored over 70% in the test.  
 II.  $2/3^{rd}$  of the class scored over 70% in the test.  
 A. If the data in **statement I alone are sufficient** to answer the question, while the data in statement II alone are not sufficient to answer the question.  
 B. If the data in **statement II alone are sufficient** to answer the question, while the data in statement I alone are not sufficient to answer the question.  
 C. If the **data either in statement I alone or in statement II alone are sufficient** to answer the question.  
 D. If the data in **both the statements I and II together are not sufficient** to answer the question.  
 E. If the data in **both the statements I and II together are necessary** to answer the question.
132. What is the speed of the stream?  
 (I) The ratio of speed in upstream to the speed in downstream is 2 : 3  
 (II) The distance travelled in upstream in 2 hours by a man is more than distance travelled by him in downstream in 1 hour by 4km.  
 A. The data in Statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.  
 B. The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

- C. The data either in statement I alone or in statement II alone are sufficient to answer the question.  
 D. The data even in both the statements I and II together II alone not sufficient to answer the question.  
 E. The data in both the statements I and II together are necessary to answer the question.
133. What is 4<sup>th</sup> consecutive even number in a given series of even real numbers?  
 I. The sum of first two numbers is 34.  
 II. The sum of last two numbers is 42.  
 A. If the data in **statement I alone are sufficient** to answer the question, while the data in statement II alone are not sufficient to answer the question.  
 B. If the data in **statement II alone are sufficient** to answer the question, while the data in statement I alone are not sufficient to answer the question.  
 C. If the **data either in statement I alone or in statement II alone are sufficient** to answer the question.  
 D. If the data in **both the statements I and II together are not sufficient** to answer the question.  
 E. If the data in **both the statements I and II together are necessary** to answer the question.
134. The marks obtained by Rohit in English in his class-X final exams?  
 (I). Rohit scored 42 marks in Chemistry which was 50% of the marks that he got in Hindi which is twice as much as mark obtained in English  
 (II). Rohit's marks in English were 17% of the total marks he got in all the subjects together.  
 A. Data given in statement 1 alone are sufficient to answer the question whereas the data given in statement 2 alone are not sufficient to answer the question.  
 B. Data given in statement 2 alone are sufficient to answer the question whereas the data given in statement 1 alone are not sufficient to answer the question.  
 C. Data in either statement 1 alone or in statement 2 alone are sufficient to answer the question.  
 D. Data in both the statement 1 and 2 not sufficient to answer the question.  
 E. Data given in both the statement 1 and 2 are necessary to answer the question.
135. What is the ratio of the total number of girls to the total number of boys in a college?  
 A). There are 2000 students in the college out of which 40% are girls.  
 B). The ratio of the total number of boys to the total number of girls in the last year was 5 : 5.  
 A. The Statement A alone is sufficient to answer the question, but the Statement B alone is not sufficient.  
 B. The statements B alone is sufficient to answer the questions. But the Statements A alone is not sufficient.  
 C. Both Statements A and B together are needed to answer the question.  
 D. Either the statement A alone or statement B alone is sufficient to answer the questions.  
 E. You cannot get the answer from the statements A and B together, but need even more data.
136. Five years ago, A age was  $\frac{1}{3}$  of B's age at that time. The ratio of B's age six years hence to A's age twelve years hence will be 7:4. What will be the ratio between A's age three years ago and B's age three years after?  
 A. 17:31  
 B. 17:58  
 C. 17:53  
 D. 3:4  
 E. 4:5
137. C.P. of two books is same. One sold at 15% profit and the other for Rs.4800 more than the first. If the net profit is 20% then find the C.P. of each book?  
 A. Rs.48000  
 B. Rs.480  
 C. Rs.4800  
 D. Rs.38000  
 E. Rs.3800
138. Two boats are traveling towards each other in a stream. They both can travel at 30 kmph in still water. If they are 300 km apart how long will it take them to cross each other if the speed of the stream is 5kmph?  
 A. 4 hours  
 B. 5 hours  
 C. 6 hours  
 D. 4.5 hours  
 E. 5.5 hours
139. Three type of Rice mixed together. Their volumes are in the proportion 5, 4 and 3 respectively and the weight of equal volumes are in proportion of 6, 5 and 4 respectively. What is the weight of the rice of the first type if the weight of the mixture is 248 kg?  
 A. 120 kg  
 B. 119 kg  
 C. 110 kg  
 D. 118 kg  
 E. 108 kg
140. Rakesh adds 12% of his salary in PPF.  $\frac{3}{8}$  of the remaining salary is spent in clothes. Difference between PPF and clothes expenses is Rs 10500. Remaining in house rent and others. If house rent expenses is Rs 1500 less than expenses in others, then what is the house rent expense?  
 A. 17000  
 B. 10000  
 C. 9000  
 D. 13000  
 E. None of these
141. X, Y and Z invested Rs. 14000 in total in a business. X invested Rs. 3120 more than Y and Z invested Rs. 1720 less than Y. The total profit was Rs. 35000. Find the share of Z.  
 A. Rs. 8100  
 B. Rs. 6200  
 C. Rs. 7280  
 D. Rs. 7040  
 E. Rs. 6800
142. A sum of Rs.5500 is invested in two parts in simple interest such that interest of one part at 6% for 4 years is equal to the interest of another at 10% for 2 years. Find the sum invested at 6% interest.  
 A. Rs. 1500  
 B. Rs. 1700  
 C. Rs. 3240  
 D. Rs. 2350  
 E. Rs. 2500

143. One ball is picked up randomly from a bag containing 8 yellow, 7 blue and 6 black balls. What is the probability that it is neither yellow nor black?  
 A.  $\frac{3}{4}$                       B.  $\frac{4}{7}$   
 C.  $\frac{2}{9}$                         D.  $\frac{1}{3}$   
 E. None of the above
144. A certain work is completed by A and B together in 10 days. If A had worked at twice the speed and B had worked at half his speed it would have taken them 8 days to finish the work. Find the time in which B can alone finish the work.  
 A. 20 days                      B. 24 days  
 C. 30 days                      D. 32 days  
 E. None of these
145. The ratio of the radii of two right circular cylinder is 4:7. The ratio of heights of cylinders is 5:2. What is the ratio of the volume of cylinder?  
 A. 40:49                        B. 8:7  
 C. 9:7                            D. 17:7  
 E. 13:7
146. The length of the two trains are 60 m and 90 m are running at the speed of 58 km/hr and 50km/hr respectively on parallel tracks in opposite direction. In how many seconds will they pass each other?  
 A. 10                              B. 8  
 C. 5                                D. 3  
 E. None of these
147. A tap can fill a tank in 16 hours whereas another tap can empty the tank in 8 hours. If in a three fourth filled tank both the taps are opened, then how long will it take to empty the tank in this scenario?  
 A. 6 hours                        B. 8 hours  
 C. 10 hours                      D. 12 hours  
 E. 14 hours
148. The cost price of goods is 20% below the marked price. He sold half he stock at the marked price. One quarter at a discount of 10% on the marked price and rest at a discount of 30% on the marked price. His total gain is :  
 A. 7.5%                         B. 9%  
 C. 10.5%                        D. 12.5%  
 E. 17.25%
149. The difference between Simple Interest and Compound Interest at the rate of 12% on the same amount for 3 years is Rs. 112.32. What is the principal amount if interest is compounded annually?  
 A. Rs. 25000                      B. Rs. 2500  
 C. Rs. 50000                      D. Rs. 5000  
 E. Rs. 2000
150. A man is 40% more efficient than a woman, and a child is 40% less efficient than a woman. 3 men, 5 women, and 4 children work for 7 days to complete a job. How many days will 2 men, 7 women and 3 children take to complete the same job?  
 A. 4.5 days                        B. 5.5 days  
 C. 6.5 days                        D. 7 days  
 E. None of the above
151. By using which of the below method we can get redundancy if we are using 2 disks and 2 controllers?  
 A. Disk Duplexing                B. Disk hybrid  
 C. Drive cracking                D. Both (A) and (B)  
 E. Drive duplexing
152. What among the below option is correct in relation with Frame relay  
 A. it does not use error correction routines.  
 B. is used in Turing machines.  
 C. uses error correction outlines.  
 D. is not compatible with internet.  
 E. is a very old technology.
153. We can define home page as.....  
 A. the web page that identifies a website.  
 B. The page that gets opened on it's own  
 C. The page that has many pages in it  
 D. The page which is in demand  
 E. The most visited page by you
154. We can find sites with the material or with the assistance that is been desired with the help of which web facility?  
 A. Wifi                              B. DNS  
 C. A search engine                D. ARPANet  
 E. A blog
155. The purpose for which we design the performance tests for webapp is .....
- A. Flexibility alerting  
 B. Ticket system  
 C. For creating infrastructure  
 D. For performance issues  
 E. simulate real-world loading
156. Which of the below is not a confirmable part of web app security?  
 A. Decryption  
 B. http-method  
 C. network infrastructure  
 D. identification technology  
 E. All of the above
157. From the below provided options, which one of them relate correctly to backward recovery?  
 A. Where the before-images are applied to the database  
 B. Where the after-before-images and before-images are applied to the database  
 C. Where the before-after-images are applied to the database  
 D. accompanying the updates  
 E. Making copy of the existing database
158. Among the given options choose the one which describes XML more efficiently and correctly.  
 A. XML is too complicated.  
 B. XML is difficult to learn  
 C. XML is a set of tags designed to tell browsers how to display text on a Web page.  
 D. XML is a set of rules for creating tags to describe data.  
 E. XML is a set of tags designed to tell browsers how to display images on a Web page.



159. The most common 5 built-in functions that SQL gives are .....
- SUM, AVG, MIN, MAX, NAME
  - MIN, MAX, MULT, DIV, NAME
  - SUM, AVG, MULT, DIV, MIN
  - Both b and c
  - COUNT, SUM, AVG, MAX, MIN
160. Among the below given options select a cyclic diagraph, that have a node which has it's in-degree zero, and all the others nodes having an in degree of one.
- Binary tree
  - Hash tree
  - Directed tree
  - B-tree
  - R-tree
161. We can develop build semantic web using.....
- XML and RDF
  - XML and XSL
  - RDF and Java
  - python and pearl
  - None of the above
162. Considering TIPS, in it when a particular transaction takes place it's proof is given by an output which is known as-
- Key points report
  - Static report
  - Information document
  - Verification document
  - Centralized document
163. The procedure in which media files like videos, while they are downloaded they start's playing alongside is Known as
- Streaming
  - Playing
  - Ping sweep
  - Smurfing
  - War driving
164. Which one of the below maps the name of their domain to their IP addresses
- C
  - DNS
  - HTML
  - Java Script
  - Python
165. Among the below provided options which one of them can act as place for literal values of a SQL query which are been ejected to the database
- Categorical variables
  - Confounding variables
  - Continuous variables
  - Discrete variables
  - Bind variables
166. The output that we get after executing an SQL SELECT statement is
- Query
  - Rows
  - Columns
  - Table
  - Join
167. Among the below provided options which applies to a CASE SQL statement?
- The order of occurrence determines the order of evaluation
  - A way to establish an IF-THEN-ELSE in SQL
  - Applying an binary operations first
  - A way to establish a data definition in SQL>
  - Establish a loop in SQL and establish an IF-THEN-ELSE in SQL
168. Among the below provided options choose the one which is most suitable for matching all IP packets in subnet 10.1.128.0, mask 255.255.255.0?
- 0.0.234.234
  - 0.0.0.255
  - 0.0.1.32
  - 0.0.4.255
  - 0.0.15.155
169. How do we refer to criminal hacking as?
- cracking
  - Denial of service
  - Waterhole attacks
  - Fake WAP
  - Philishing
170. Name by which Malicious software's are denoted is .....
- Zeus
  - Sasser
  - Conficker
  - Malware
  - Stuxnet
171. Which of the below given problems are result of locking?
- Deadlock
  - processes getting slow
  - safety issues
  - operations on semaphores
  - None of the above
172. What is been reserved by a procedural program in a batch of variables and what type of operations are done on it?
- methods, operations
  - data, functions
  - assets, actions
  - integers, characters
  - None of the above
173. In which procedure we need to scan a network, so that we can find out that which ip addresses range it's using to map live hosts?
- ping sweep
  - cracking
  - phreaking
  - tea drop attack
  - Hybrid
174. Among the below options which on is known for it's standard for security that is inclined at the network or packet processing layer of network communications, as opposed to the application layer.
- UDP
  - IP
  - ETHERNET
  - SPX
  - IPsec
175. If you want to have rows that do not have similar data then the join that we need to use is?
- inner join
  - cross join
  - Left join
  - Right join
  - Outer join
176. How do we refer a cross life-cycle activity of a system development?
- Documentation and presentation
  - fact finding
  - Feasibility analysis
  - excessive system modeling
  - Feasibility analysis
177. Among the below options choose the one which does not belong to a webapp interface?
- Links
  - Cookies
  - Browser
  - Cookies and Links
  - Forms
178. From the below options select the one which refers to the is the integration of economic, social, cultural and ecological facets of life, enabled by information technologies.
- economic
  - social
  - technological
  - Political
  - globalization

179. Which java package is needed in case if a user wants to move the cursor?  
 A. Java.util                      B. Java lo  
 C. Java.lang                      D. Java.net  
 E. java.awt
180. Select a form from the given option that are not able to express parallel ATA devices.  
 A. SCSI                              B. SATA  
 C. SAS                                D. FIREWIRE  
 E. PCI
181. What is the name of the communication medium where your data is converted to light pulses  
 A. Clad steel                      B. optical fiber  
 C. atmosphere                      D. bimetallic cable  
 E. None of these
182. The phrase needed in case of deception i.e. to fetch out an individual personal information.  
 A. Tail gaiting                      B. Spamming  
 C. Phishing                         D. social engineering  
 E. None of the above
183. We can perform operation like insert, delete, concatenate and rearrange substrings in.....  
 A. Structure                        B. Linked list  
 C. Graphs                          D. Heaps  
 E. Binary trees
184. The correct full form of DLCI is.....  
 A. Data Link Circuit Instrcutions  
 B. Data Link Connection Interrupt  
 C. Data Link Connection Indicator  
 D. Data Link Circuit Indicator  
 E. Data Link Connection Identifier
185. How can we create and delete views and relations within tables?  
 A. SQL Data mining  
 B. SQL Data audit  
 C. SQL Data dynamic creation  
 D. SQL Data Definition Language  
 E. SQL Data referential integrity
186. What methods does mangers implements to find out data more precisely?  
 A. ramp down                      B. interrogations  
 C. Drilling down                      D. Furnacing  
 E. SDLC
187. Among the given below options select a statement which correctly defines a Nonprimitive data structures.  
 A. Metamodel elements  
 B. Super elements  
 C. Derived elements  
 D. Dynamic elements  
 E. derivational elements
188. What's that condition called in which a spyware gets download on it's own, if you try to access certain websites?  
 A. Virtual bomb  
 B. Drive-by downloaded  
 C. Malware  
 D. Worm  
 E. Conficer
189. Apart from internet connection, we also requires ..... to go to a web page.  
 A. Industrial browser              B. printer  
 C. LANCOM                         D. TELNET  
 E. web browser
190. One essential thing that every host computer should have is.....  
 A. Different IP address  
 B. unique 23-digit number  
 C. same network  
 D. unique IP address  
 E. unique 1<sup>st</sup> 4 digits of ip address
191. Among the below options, which one of them do not assures purity and firmness of data in a database?  
 A. Data pureness management  
 B. Data reports  
 C. data redundancy  
 D. Data memory operations  
 E. None of the above
192. What's the 1<sup>st</sup> level of china at which we can build a perceptive aim for quality and productivity  
 A. Level 9                              B. Level 8  
 C. Level 7                              D. Level 6  
 E. Level 5
193. For a public class member the UVL designation used is known as  
 A. the dollar symbol\$  
 B. the unequal symbol!  
 C. the multiplication symbol \*  
 D. The division symbol /  
 E. The word public
194. If a network covers a huge geo-geographic range than it is usually referred to as  
 A. large area network  
 B. wide area network  
 C. Metropolitan area network  
 D. Storage area network  
 E. Personal area network
195. We can build web pages by implementing .....  
 A. only Web processors  
 B. only HTML editor  
 C. any word processor  
 D. All a, b and c  
 E. None of the above
196. By using which design tool we can explain the logic behind a modern computer software logic diagram that needs symbol to show program components?  
 A. ER- diagram  
 B. Activity diagram  
 C. Interaction Overview diagram  
 D. system flowchart  
 E. Sequence diagram
197. Among the below given options choose the one which is not correct.  
 A. New nodes can only be added to the top of the stack  
 B. Stacks can be implemented using linked lists.  
 C. Stacks are first-in, first-out data structures.  
 D. The last node (at the bottom) of a stack has a null(0) link.  
 E. Stacks are very useful.

198. In which data structure we can put or remove an element at starting or at the end but we can't do the operating of putting an element at the middle?
- A. Array
  - B. Structure
  - C. Dequeue
  - D. Binary tree
  - E. graphs
199. The demands of a project are classified and are then implemented to the system's design in which phase of SDLC?
- A. Requirement gathering
  - B. Testing
  - C. implementation
  - D. Systems design
  - E. Deployment

200. The statement that correctly defines Common Gateway Interface (CGI) is
- A. An platform that standalone acts to send and receive data.
  - B. A program responsible for starting the server.
  - C. A program that executes separately.
  - D. Both b and c
  - E. An interface that accepts and returns data that may be written in any language that produces executable file.

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