

I. ENGLISH LANGUAGE

Directions (1-10) Read the following passage carefully and answer the questions given below it, certain words are given in bold to help you locate them while answering some of the questions.

The status of Indian Institutes of Technology as institutions of **nerdy** eminence has been internationally validated for many years now. That persons of Indian origin today head Google, Microsoft, PepsiCo, among many other Fortune 500 companies, is ample testimony to the robustness at the core of India's system of higher education. And, yet, in the global rankings of world universities, Indian campuses seldom make it into the top 200, largely due to an inadequate emphasis on securing an international profile - both in terms of faculty and students - and poor research-focused performance. Some of this is, of course, attributable to the **cumbersome** regulations that tie down these institutions. Additionally, an inability to think big and insufficient funds to scale up, are often cited as compelling reasons that inhibit Indian universities from reaching for the stars.

Given this scenario, the recent endeavour of the Centre to identify 'Institutions of Eminence' with an eye on building world-class teaching and research institutions is eminently worthy of **commendation**. It reflects a rare ability on the government's part to look far out into the future, and to dare to dream big in an area that has typically been characterised by short-termism. The Centre's willingness to ease regulatory oversight, of such institutions, including on matters relating to the appointment of foreign faculty and the framing of curriculum, is a radical change indeed.

And, yet, the HRD Ministry's final selection of six Institutions of Eminence three - each in the public and private spaces - has been clouded over by a wholly avoidable controversy. In particular, its choice of the Reliance-promoted Jio Institute, an entity that for now exists only in name, has stoked justifiable outrage. In its defence, the Ministry cites that Jio Institute was chosen in the "greenfield" category, and that one of the critical considerations that weighed in its favour was the size of the promoters' net worth and their capacity to creatively disrupt the industries they operate in. However **persuasive** these arguments are, it is hard to dispel the notion that the goalposts have been set up in a way that privileges an industrial group that is perceived to be proximate to the ruling

dispensation. The fact that a senior bureaucrat who worked on the proposal later joined Reliance and participated in the Jio Institute's presentation before the Empowered Expert Committee (EEC), **reinforces** these disquieting perceptions. A creditable endeavour in the space of higher learning has thus been tainted by the poor optics of the exercise.

1. Why do Indian campuses rarely enter the list of top 200 world-level institutions?

- (A) Because India government does not believe that such rankings are true reflection of the standard of any world-class educational institution
(B) Because the standard of both students and faculty is not world-class
(C) Because research-focused performance is poor
1) Only (A) 2) Only (B) 3) Only (C)
4) Both (B) and (C) 5) All (A), (B) & (C)

2. What are the impediments that stop Indian universities from reaching for the stars?

- (A) Clumsy regulations that snatch freedom of the institutions
(B) Insufficient funding to these institutions
(C) Lack of big and innovative ideas
1) Only (A) and (B) 2) Only (B) and (C)
3) Only (A) and (C) 4) Only A
5) All (A), (B) and (C)

3. What steps are being taken by the Central Government to promote 'Institutions of Eminence' and make them world-class teaching and research institutions?

- (A) Regulatory oversight of such institutions is being eased.
(B) UGC will be given more autonomy to look into the matters of funding to these institutions,
(C) It is being decided that foreign faculty would be appointed for such institutions,
1) Only (A) and (B) 2) Only (B) and (C)
3) Only (A) and (C) 4) Only (B)
5) All (A), (B) and (C)

4. What is the basis to consider any institution as 'Institution of Eminence'?

- 1) That the concerned institution should fall under the 'greenfield' category
2) That the size of the net worth of the promoter should be worth consideration
3) That the promoter of the institution should be a renowned industrialist 4) All 1), 2) and 3) 5) None

5. Which of the following can be inferred from the given passage?

- 1) That the writer of the passage seems to be a supporter of the industrialists
- 2) That the selection of the institution as 'Institutions of Eminence' is not merit-based
- 3) That politicians never favour any institution on flimsy grounds
- 4) That through this passage an attempt has been made to tarnish the image of India government
- 5) None of the above

Directions (6-8): Choose the word which is most similar in meaning to the word printed in bold as used in the passage.

6. Nerdy

- 1) wanted
- 2) desirable
- 3) studious
- 4) zingy
- 5) delightful

7. Cumbersome

- 1) awkward
- 2) convenient
- 3) easy
- 4) graceful
- 5) helpful

8. Commendation

- 1) condemnation
- 2) criticism
- 3) disapproval
- 4) reprimand
- 5) acclamation

Directions (9-10): Choose the word which is most opposite in meaning of the word printed in bold as used in the passage.

9. Reinforce

- 1) weakens
- 2) augments
- 3) bolsters
- 4) supports
- 5) stresses

10. Persuasive

- 1) credible
- 2) inspiring
- 3) impressive
- 4) invalid
- 5) swaying

Directions (11 - 20): Which of the phrases (I), (II) and (III) given below each sentence should replace the phrase printed in bold letters to make the sentence grammatically correct? Choose the best option among the five given alternatives that reflects the correct use of phrase in the context of the grammatically correct sentence. If the sentence is correct as it is, mark (5) ie, "No correction required" as the answer.

11. The monsoon trough with embedded cyclonic circulations, a brewing **low pressure area** to the Bay, and a truncated but active offshore trough are currently driving its expansive phase.

- (I) low pressure area of the
- (II) low-pressure area about the
- (III) low-pressure area over the

- 1) Only (I) is correct
- 2) Only (II) is correct
- 3) Only (III) is correct
- 4) Both (I) & (III) are correct
- 5) No correction required

12. Unless the Centre shows some 'tough love' and **pushes through reforms**, a few new proposal to tackle banks NPA problem will only remain a cosmetic measure.

- (I) pushes through reforms, any new proposal
 - (II) pushes through reform, any new proposal
 - (III) pushes through reforms, some new proposal
- 1) Only (I) is correct
 - 2) Only (II) is correct
 - 3) Both (I) and (II) are correct
 - 4) Both (II) and (III) are correct
 - 5) No correction required

13. To give the US President his due, he has been meticulously **carried off all his election promises**, however crazy they may be.

- (I) carrying over all his election promises,
 - (II) carrying out all his election promises,
 - (III) carrying out all his elections promised,
- 1) Only (I) is correct
 - 2) Only (II) is correct
 - 3) Only (III) is correct
 - 4) Both (I) and (III) are correct
 - 5) No correction required

14. ITA Chairman Azam Monem said that the wages of the workers of the tea industry had been historically determined through negotiations with the unions and the **former agreement to this effect** was signed on April 1, 2014 for three years and has since expired.

- (I) the last agreement to this affect
 - (II) the late agreement by this effect
 - (III) the last agreement to this effect
- 1) Only (I) is correct
 - 2) Only (II) is correct
 - 3) Only (III) is correct
 - 4) Both (II) and (III) are correct
 - 5) No correction required

15. Over the last week, several **airlines have come up with discounted** fare offers.

- (I) airlines has come up with discounted
 - (II) airlines have been coming up with discounted
 - (III) airlines have come up with discounted
- 1) Only (I) is correct
 - 2) Only (II) is correct
 - 3) Both (II) and (III) are correct
 - 4) Both (I) and (III) are correct
 - 5) No correction required

16. It's going to be interesting days ahead as it **remain to be seen how** the Supreme Court judgment is interpreted by the parties concerned.

- (I) remains to see how the

- (II) remains to be seen why the
 (III) remains to be seen how the
 1) Only (I) is correct 2) Only (II) is correct
 3) Only (III) is correct 4) Both (I) & (II) are correct
 5) No correction required

17. New Delhi's Connaught Place (CP) has emerged as one of the most expensive **office markets around the world**, according to the findings of 'Global Prime Office Occupancy Costs' annual survey.

- (I) offices market in the world,
 (II) office markets in the world,
 (III) office markets for the world,
 1) Only (I) is correct 2) Only (II) is correct
 3) Only (III) is correct 4) Both (I) & (II) are correct
 5) No correction required

18. It is perhaps no surprise that political parties are **tightly divided over the idea** of holding simultaneous elections for the Lok Sabha and the State Assemblies.

- (I) deeply divided over the idea of
 (II) deeply divided against the idea of
 (III) completely divided over the idea of
 1) Only (I) is correct 2) Only (II) is correct
 3) Only (III) is correct 4) Both (I) & (III) are correct
 5) No correction required

19. In a move aimed at widening the crackdown on black money and **following as money trail** flowing in and out of thousands of shell companies, the Centre is planning to set up an information technology (IT) - based mechanism to keep a tab on all non-cash, financial transactions in the country.

- (I) followed the money trail
 (II) following the money trail
 (III) following the money trailing
 1) Only (I) is correct 2) Only (II) is correct
 3) Both (I) and (III) are correct
 4) Both (I) and (II) are correct
 5) No correction required

20. The Union Minister wondered **why bank were not floating** long-term infra bonds with fixed coupon rates to raise money.

- (I) why banks were not floating
 (II) why were bank not floating
 (III) why banks had not floating
 1) Only (I) is correct 2) Only (II) is correct
 3) Only (III) is correct 4) Both (I) & (II) are correct
 5) No correction required

Directions (21-25): Below in each question some sentences are given. Find the sentence which is not really contributing to the main theme of the phrase or find the odd sentence out and rearrange the remaining sentences to make a coherent paragraph. If the paragraph is correct as it is then choose option (5). If the sequence is the one which is not given then choose option (4) as your choice.

21. (A) If this impetus translates into a certain equalisation of investment across regions, it may mitigate existing regional inequalities.

(B) A clear policy on land acquisition, which takes into account competing uses, is a prerequisite for sustainable industrial development.

(C) The latest annual ranking of States on 'ease of doing business' tells us that the economically backward States are keen to catch up with the industrialised western and southern States.

(D) It is notable that, besides the northeastern States, Delhi, Punjab, Goa, Kerala and Jammu and Kashmir have been slotted as reform laggards.

(E) While Andhra Pradesh and Telangana have grabbed the first two slots, it is notable that Jharkhand, Chhattisgarh, Madhya Pradesh and Rajasthan are in the first 10, their incremental reforms bettering States such as Maharashtra and Tamil Nadu.

- 1) BECD 2) CEAD 3) DABC
 4) None of these 5) No correction required

22. (A) A fundamental feature of the proposed HECL, as opposed to the UGC, is that it will focus only on enforcement of standards and not disburse grants; the latter role will be vested with the Ministry of Human Resources Development (MHRD).

(B) It makes sense to divest the regulator of the role of providing funds.

(C) The rest of the draft Bill promises both "autonomy" and a resolve to enforce standards for teaching and research.

(D) Under the UPA, the UGC agreed to the Centre's proposal to have a four-year undergraduate programme, going against its own rules.

The Centre has invited a barrage of criticism, some of them valid, after placing in the public domain the Higher Education Commission of India (Repeal of University Grants Commission Act) Bill 201 8.

- 1) ACBD 2) DAEC 3) EACB
 4) None of these 5) No correction required

23. (A) Indian museums house an enviable range of collections of art and cultural objects spanning the vast history of India.

(B) Such collections, however, are poorly documented making them vulnerable to possibilities of theft or illicit culture trafficking.

(C) The recent case of the Chola Bronze of Dancing Shiva which was stolen and smuggled out of India, and then sold to the National Gallery of Australia is a case in point.

(D) The statue has since been returned after India established its provenance and requested the government of Australia.

(E) Application of new technological tools to document museum collections can help a great deal in establishing art authenticity.

- 1) ECDB 2) ADCB 3) BACD
4) None of these 5) No correction required

24. (A) So much so that her World Under-20 championships gold at Tampere in Finland last month did not exactly come as a surprise.

(B) Received opinion has it that it takes years to master the quarter mile and that progress at the highest level is painfully slow.

(C) Only time will tell, but India needs to grab this golden opportunity to take the sport forward.

(D) For someone who took to the 400 in just this year and who ran her first individual race as recently as in March, the 18-year-old from Assam has produced one stunning performance after another.

(E) Incredibly, Hima Das has proved this wrong.

- 1) ECDB 2) ADCB 3) BEDA
4) None of these 5) No correction required

25. (A) But despite the personal touch, and ambitions to align India's Act East policy with Korea's New Southern Policy, ties have drifted for lack of focus.

(B) In fact, during his election campaign last year he had promised to raise bilateral ties to the level of South Korea's relations with what it calls the four major powers the US, Russia, China and Japan.

(C) That South Korean President Moon Jae-in undertook a four-day visit to India recently, when there is hectic diplomacy over the Korean peninsula speaks of his commitment to improving bilateral ties.

(D) In turn, Korean companies cite problems in doing business in India, despite a special "Korea Plus" desk set up by the Prime Minister's Office in 2015.

(E) Prime Minister Narendra Modi too has often said he sees South Korea as a significant partner for India, and had travelled to Seoul.

- 1) CBEA 2) ADCB 3) BEDA
4) None of these 5) No correction required

Directions (26-28): Rearrange the following sentences I, II, III, IV, V, VI and VII to make a coherent paragraph without changing the tone of the paragraph.

I. The charges are serious, even for a country plagued by corruption in high places.

II. Democracy has always been fragile in Pakistan.

III. The first outed in the Panama Papers, has seen Mr. Sharif disqualified from office and then barred from holding a party position in the ruling PML(N) after being held guilty by the Supreme Court.

IV. But many Pakistanis, including Mr. Sharif's critics, believe the anti-corruption court was overzealous and even motivated by those in the deep state unhappy with his recent run as Prime Minister

V. As the country heads for the second such transfer, with a general election scheduled for July 25, the celebration is muted, overshadowed by a series of dramatic developments.

VI. It was only in 2013 that a transfer of power from one democratically elected government to another was realised for the first time.

VII. Recently former Prime Minister and Pakistan Muslim League leader Nawaz Sharif was sentenced to 10 years in prison in a corruption case involving undeclared property in London

26. Which of the following will be the last three sentences after the rearrangement?

- 1) VII, IV, III 2) II, IV, VII 3) V, I, III
4) III, I, IV 5) VI, III, I

27. Which of the following sentences will come immediately after the second sentence after the rearrangement?

- 1) I 2) III 3) V 4) II 5) VII

28. Which of the following will be the second and the fourth sentence respectively after the rearrangement?

- 1) I, II 2) III, IV 3) VI, V 4) IV, II 5) VI, VII

Directions (29-30): In the questions given below, parts of a sentence are jumbled up. Arrange them sequentially to form a correct and coherent sentence.

Due to delays in finding employment in recent years and that students are unable to service loans / a senior executive director of a public sector bank said there has been not much job creation

29. 1) Due to delays in finding employment and that students are unable to service loans in recent years a senior executive director of a public sector bank said there has been not much job creation.

- 2) A senior executive director of a public sector bank said there has been not much job creation in recent years and that students are unable to service loans due to delays in finding employment.
- 3) A senior executive director of a public sector bank said there has been not much job creation due to delays in finding employment and that students are unable to service loans in recent years.
- 4) In recent years a senior executive director of a public sector bank said there has been not much job creation and that students are unable to service loans due to delays in finding employment.
- 5) Due to delays in finding employment in recent years and that students are unable to service loans a senior executive director of a public sector bank said there has been not much job creation.

30. The best practices in governance / the ranking of states on the basis of 'ease of doing business' / as it helps to evaluate / on a regular basis is a good exercise

- 1) The ranking of states on the basis of 'ease of doing business' the best practices in governance, as it helps to evaluate on a regular basis is a good exercise.
- 2) On a regular basis is a good exercise the best practices in governance the ranking of states on the basis of 'ease of doing business' as it helps to evaluate.
- 3) As it helps to evaluate on a regular basis is a good exercise the ranking of states on the basis of 'ease of doing business' the best practices in governance.
- 4) The ranking of states on the basis of 'ease of doing business' on a regular basis is a good exercise as it helps to evaluate the best practices in governance.
- 5) The best practices in governance on a regular basis is a good exercise as it helps to evaluate the ranking of states on the basis of 'ease of doing business'.

TEST-II: REASONING ABILITY

Directions (31-35): Stud' the following information carefully and answer the questions given below:

Ten persons A, B, C, D, E, F, G, H, I and J are seated in a row but not necessarily in the same order. Some of them are facing north while some other are facing south. Each of them likes a different fast food, viz Pizza, Burger, Idli, Dosa, Dhokla, Noodle, Pasta, Sandwich, Maggi and Biryani but not necessarily in the same order.

The one who likes Burger sits fourth to the left of A and he is an immediate neighbour of D. Only one person sits between C and the one who likes Sandwich. H sits third to the left of C and he likes Pizza. D and I do not face the same direction. B and E face the same direction. J faces opposite B. J and H face the same direction. The one who likes Idli faces south. A sits fourth to the right of the one who likes Sandwich. A is not an immediate neighbour of the one who likes Dhokla. B likes Dhokla and faces North. F sits exactly in the middle of C and G. Only one person sits between the one who likes Noodle and the one who likes Pasta. B sits third to the right of C, who likes Noodle. The one who likes Pasta sits second to the right of the one who likes Dosa. I, who likes Biryani, sits fourth to the left of D. B sits at one of the ends of the row. H and I face the same direction. J sits on the immediate left of H.

31. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- 1) F 2) D 3) C 4) J 5) H

32. How many persons sit between C and the one who likes Pasta?

- 1) None 2) Two 3) One 4) Three 5) None

33. Who among the following sits third to the right of the one who likes Dosa?

- 1) F 2) C 3) I 4) J 5) E

34. Who among the following sit at the extreme ends of the row?

- 1) B, G 2) B, D 3) F, B 4) B, E 5) None

35. Which of the following statements is true?

- 1) I likes Biryani. 2) A sits third to the left of E.
 3) Both the immediate neighbours of G face the same direction. 4) F faces north and likes Idli.
 5) Both 1) and 4)

Directions(36-40): Study the following information carefully and answer the questions given below:

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of an input and its rearrangement.

Input: 21 educate 26 aunt 18 next 28 outer 34 must 13 best

Step I: 14 21 educate 26 18 next 28 outer 34 must best aunt

Step II: best 14 21 educate 26 next 28 outer 34 must aunt 19

Step III: 22 best 14 26 next 28 outer 34 must aunt 19 educate

Step IV: must 22 best 14 next 28 outer 34 aunt 19 educate 27

Step V: 29 must 22 best 14 outer 34 aunt 19 educate 27 next

Step VI: outer 29 must 22 best 14 aunt 19 educate 27 next 35

And **step VI** is the last step of the above input. As per the rules followed in the above steps, find out the appropriate steps for the given input.

Input: doubt 53 protect 17 65 rest better 28 content 75 host 89 26 test

36. Which element is third to the right of the one which is fifth from the left end in step IV of the given input?

- 1) protect 2) rest 3) 75 4) 89 5) None

37. In which step is '18 89 test better 27' found in the same order?

- 1) Step I 2) Step IV 3) Step III
4) Step VI 5) None of these

38. Which of the following elements (word/number) comes exactly between '18' and '29' in step V of the given input?

- 1) 75 2) content 3) 66 4) rest 5) None

39. Which of the following will be the sixth step of the given input?

- 1) 66 host 29 content 18 rest 75 89 test better 27 doubt 54 protect
2) rest 66 host 29 content 18 89 test better 27 doubt 54 protect 76
3) 29 content 18 53 protect 65 rest 75 host 89 test better 27 doubt
4) rest 66 host 29 content 18 89 test better 27 54 protect 76 doubt 5) None of these

40. Which of the following combinations represents the first two and the last two elements in step VII of the given input?

- 1) 29, content, doubt, 27 2) doubt, 54, host, 29
3) test, 90, better, 29 4) 90, rest, 76, test
5) 18, content, better, 27

Directions(41-42): Study the following information carefully and answer the questions given below:

P is sister of K. K is married to L. L is father of M. Q is son of R. K is mother-in-law of R. L has only one son and no daughter. P is married to T. S is daughter of T.

41. How is S related to K?

- 1) Daughter 2) Nephew 3) Niece
4) Son 5) None of these

42. How is Q related to L?

- 1) Son 2) Grandson 3) Niece
4) Granddaughter 5) None of these

Directions(43-47): Study the following information carefully and answer the questions given below:

Eight students A, B, C, D, E, F, G and H live in an apartment, but not necessarily in the same order. There are eight floors in that apartment and only one person lives on each floor. Each of them got a different rank from 1 to 8 in the school, but not necessarily in the same order. Each of them has a different lucky number from 1 to 8, but not necessarily in the same order. The ground floor of the apartment is numbered one and the floor above it is numbered two and so on. The topmost floor of the apartment is numbered eight. D's lucky number, floor number and his rank are the same number. Except D, all are having different numbers for floor number, lucky number and rank (ie no two numbers will be the same for a particular student.)

Only two students live between H and the one who got rank 4. Only one student lives between A and G. A's rank and the floor on which B lives are the same. F lives either immediately above or immediately below the floor on which C lives, F's rank and G's lucky number are the same. E got better rank than F. C's lucky number and the floor on which E lives are the same. H's lucky number is 5. The one who got rank 5 lives immediately above the one who got rank 6. The one who got rank 5 is having lucky number 1. The sum of G's floor number and lucky number is equal to his rank. G lives on an odd-numbered floor but not on the ground floor. F's lucky number and the floor on which B lives are the same. Only two students live between the floors on which B and G live. G's rank is the same as H's floor number. G's rank is an odd number. A's lucky number is greater than E's lucky number. F lives on an odd-numbered floor.

43. Which of the following statements is not true?

- 1) B lives on the topmost floor.
2) A lives immediately below D.
3) H's lucky number is 5 and he got 8th rank.
4) Both 2) and 3) 5) None of these

44. How many persons live between the floors on which G and C live?

- 1) None 2) Two 3) One 4) Three 5) None

45. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- 1) B 2) C 3) E 4) F 5) D

46. Who among the following lives on the fourth floor?

- 1) G 2) E 3) H 4) B 5) None

47. Which of the following combinations is true?

- 1) E -Floor number-6-Lucky number-3-Rank-1
2) A-Floor number-3-Lucky number-7-Rank-5
3) G-Floor number-S-Lucky number-4-Rank-7
4) B-Floor number-8-Lucky number-4-Rank-S
5) Both 1) and 4)

Directions (48-50): 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 the question and both the statements and give answer

1) 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.

2) 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.

3) if the data either in statement I alone or in statement II alone are sufficient to answer the question.

4) if the data in both statement I and II together are not sufficient to answer the question.

5) if the data in both statement I and II together are necessary to answer the question.

48. How is B related to C?

I. D and C are children of E, who is husband of B.

II. A's sister is B and A is married to C's father.

49. B, A, C, D and E are sitting in a straight line facing north. Who sits in the middle of the row?

I. D sits second to the right of A and on the immediate left of F. C sits at one of the extreme ends of the row. A does not sit at the extreme end of the row.

II. B sits second to the left of C, who sits at an extreme end of the row D is not an immediate neighbour of B.

50. What is Rakesh's rank from the top in a class of 40 students?

I. Rakesh is seven ranks below Ajay, who is tenth from the top.

II. Rakesh is two ranks above Sunil, who is sixteenth rank below Atul.

Directions(51-55): Study the following information carefully and answer the questions given below:

Seven persons J, K, L, M, N, O and P attend a farewell party each in the months of February, March, April, May, July, October and December but not necessarily in the same order. Each one of them likes a different colour, viz Red, Pink, Yellow, Green, Orange, White and Purple but not necessarily in the same order. Each of them likes seven different beverages, viz Coca Cola, Thums Up, Sprite, Frooti, Limca, Fizz and Maaza but not necessarily in the same order.

The one who likes Orange attends the farewell party in a month having less than 31 days. Only one person attends the farewell party between J and the one who likes Orange. The one who likes Thums Up attends the farewell party immediately before the one who likes Fizz and immediately after the one who likes Coca Cola. The one who likes Yellow attends the farewell party immediately before J. L attends the farewell party immediately after J. Only two persons attend the farewell party between K and L. The one who likes Maaza attends the farewell party immediately before the one who likes Sprite. P attends the farewell party in a month which has less than 31 days. O attends the farewell party immediately after P. Only one person attends the farewell party between J and the one who likes Green. O does not like Frooti. J does not like White. The one who likes Red attends the farewell party immediately before the one who likes Purple. Only two persons attend the farewell party between the one who likes Coca Cola and the one who likes Maaza. N does not like Yellow. The one who likes White attends the farewell party in a month having less than 30 days. The one who likes Coca Cola attends the farewell party in the month of April.

51. Which of the following colours does L like?

- 1) Red 2) White 3) Purple
4) Pink 5) Green

52. Which of the following combinations is correct?

- 1) March - P - Red - Frooti
2) May - L - Yellow - Limca
3) October - N - White - Thums Up
4) July - J - Red - Fizz 5) All are correct

53. Which of the following statements is/are true?
 1) L attends the farewell party in the month of December. 2) P likes White colour.
 3) M attends the farewell party immediately before N 4) Both 1) and 2) 5) None of these

54. Who among the following attends the farewell party in May?
 1) O 2) J 3) L 4) M 5) K

55. Who among the following likes Sprite?
 1) N 2) L 3) J 4) P 5) K

Directions(56-57): Study the following information carefully and answer the questions given below:

Point C is 8 m east of point B. Point C is 4 m north of point A and also S m south of point F. Point F is 2 m east of point D. Point A is 4 m west of point D.

56. Point C is in which direction with respect to F?
 1) North 2) Southeast 3) Northwest
 4) East 5) None of these

57. A person starts from point F, walks 4 m towards south and reaches point G. He takes a left turn and walks 2m and reaches point L. Find the distance between point L and point E.
 1) 6m 2) 2m 3) 4m
 4) Can't be determined 5) None of these

Directions(58-60): Study the following information carefully and answer the questions given below:

In a certain code language 'nature provide delicious fruit' is written as 'k2 p3 d5 e7', 'fruit rich source vitamin' is written as 'b8 c1 d5 h4', 'other source vitamin milk' is written as 'c1 h4 j2 m6' and 'nature makes rich life' is written as 'n7 p3 b8 z2'.

58. If 'sunlight source vitamin' is written as 'c1 y5 h4' then what is the code for 'sunlight' in the given code language?
 1) c1 2) h4 3) y5 4) d5 5) None

59. What is the code for 'nature makes life' in the given code language?
 1) p3 n7 k2 2) e7 m6 k2 3) p3 j7 k2
 4) p3 n7 z2 5) None of these

60. What is the code for 'fruit' in the given code language?
 1) d5 2) b8 3) j2 4) e7 5) y5

Directions(61-65): Study the following information carefully and answer the questions given below:

A teacher of an institute X teaches seven different subjects, viz English, Maths, Biology, Physics, Chemistry, History and Civics on seven different days of the same week starting from Monday and ending on Sunday but not necessarily in the same order. He teaches only one subject on each day of the week.

He teaches Physics on Friday. He teaches English on one of the days after Physics. He teaches only two subjects between the days on which he teaches English and Maths. He teaches only one subject between the days on which he teaches Maths and History. He teaches history on one of the days before Maths. He teaches only one subject between the days on which he teaches Physics and Chemistry. He teaches Civics on one of the days before Maths but not on Monday.

61. On which day does he teach History?
 1) Friday 2) Monday 3) Tuesday
 4) Thursday 5) Sunday

62. Which of the following statements is not true?
 1) He teaches History on the day immediately before the day on which he teaches Civics.
 2) He teaches Maths on Wednesday.
 3) He teaches Biology on the day immediately after Physics.
 4) He teaches, English on Saturday. 5) All are true

63. Which of the following subjects does he teach on Thursday?
 1) Biology 2) Physics 3) Civics
 4) English 5) Maths

64. How many subjects were taught between the days on which he teaches Maths and Chemistry?
 1) None 2) Two 3) One 4) Three 5) Four

65. Four of the following five are alike in a certain way and hence form a group. Which is the one that does not belong to that group?
 1) Saturday-Chemistry 2) Tuesday-History
 3) Monday-Civics 4) Wednesday-History
 5) Sunday-English

III. QUANTITATIVE APTITUDE

66. The sum of the volume of a cylinder and the volume of a cone is $845\pi \text{ cm}^3$. The height of the cylinder and the cone are 5 cm each. If the radius of the cylinder is 12 cm, then what is the ratio of the radius of the cylinder to the radius of the cone?

- 1) 10: 13 2) 11: 12 3) 12: 11
4) 9: 11 5) 7: 12

67. The sum of A's and B's age 4 years ago was 80 years. A's age 14 years ago was equal to B's age 4 years ago. Find the age of A three years hence.

- 1) 52 years 2) 51 years 3) 58 years
4) 48 years 5) None of these

68. A train 'A', which is 250m long, can cross a platform, which is 150m long, in 20 seconds. The ratio of the speed of train A to that of train B is 2: 3. Find the length of train B if it can cross a pole in 8 seconds.

- 1) 210m 2) 140m 3) 190m
4) 240m 5) 220m

69. What is the probability of forming words from the letters of the word 'PICTURE' such that all vowels come together?

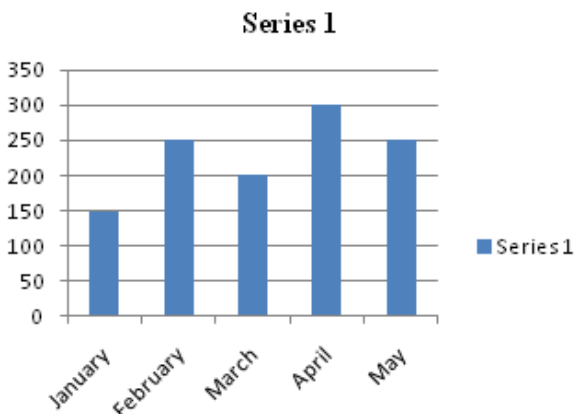
- 1) $\frac{1}{9}$ 2) $\frac{1}{5}$ 3) $\frac{1}{7}$
4) $\frac{3}{7}$ 5) $\frac{2}{5}$

70. The marked price of A is ₹800 more than its cost price. When a discount ₹200 is allowed a profit of 10% is earned. At what price should A be sold to earn profit?

- 1) ₹7600 2) ₹7200 3) ₹6200
4) ₹6800 5) None of these

Directions (71-75): Stud the following bar graph carefully and answer the questions that follow:

The bar graph shows the number of books sold by a retailer in five different months.



71. The total number of books sold in June is 20% more than that sold in May. Find the total number of books sold in March and June together.

- 1) 300 2) 500 3) 475
4) 520 5) 700

72. The total number of books sold in February is 25% more than that sold in July. Find the total number of books sold in July.

- 1) 100 2) 400 3) 500 4) 200 5) None

73. What is the difference between the total number of books sold in January and February together and the total number of books sold in March and April together?

- 1) 100 2) 50 3) 200 4) 400 5) 600

74. The ratio of defective books in April sold to the number of total books sold in February is 4: 5. Find the total number of non-defective books sold in April.

- 1) 100 2) 50 3) 80 4) 200 5) 150

75. The total number of books sold in February and April together is approximately what per cent of the total number of books sold by the retailer over all the five months?

- 1) 58% 2) 42% 3) 47% 4) 36% 5) None

Directions (76-80): In the following number series one number is wrong. Find out the wrong number.

76. 4 6 15 49 203 1011

- 1) 49 2) 203 3) 1011 4) 15 5) 6

77. 16 19 34 72 132 231

- 1) 72 2) 19 3) 132 4) 231 5) 34

78. 370 190 200 315 620 650

- 1) 370 2) 620 3) 1650 4) 315 5) 190

79. 10648 8000 5832 5832 4094 2744 1728

- 1) 1728 2) 5832 3) 4094 4) 2744 5) 8000

80. 2 29 154 497 1224 2557

- 1) 497 2) 2557 3) 29 4) 1224 5) 154

Directions (81-85): In each of the following questions, two quantities I and II are given. Compare both the quantities and choose the correct option and give the answer accordingly.

81. Quantity I. The speed of a boat is 300% more than the speed of a current. If the boat can travel a

distance of 40 km downstream in 2 hours then find the speed of the boat upstream (km/hr).

Quantity II. 10km/hr

- 1) Quantity I > Quantity II
- 2) Quantity II > Quantity I
- 3) Quantity I ≥ Quantity II
- 4) Quantity I ≤ Quantity II
- 5) Quantity I = Quantity II or No relation

82. Quantity I. ₹850

Quantity II. A shopkeeper allows a discount of 15% on the marked price of an item and sells it for ₹1700. Find the marked price of the article.

- 1) Quantity I > Quantity II
- 2) Quantity I ≥ Quantity II
- 3) Quantity II ≤ Quantity I
- 4) Quantity II > Quantity I
- 5) Quantity I = Quantity II or No relation

83. Quantity I. $x^2 + x - 20 = 0$; value of x.

Quantity II. $y^2 + 12y + 35 = 0$; value of y.

- 1) Quantity I > Quantity II
- 2) Quantity I ≥ Quantity II
- 3) Quantity II ≤ Quantity I
- 4) Quantity II > Quantity I
- 5) Quantity I = Quantity II or No relation

84. The sum of five consecutive even numbers is 80.

Quantity I. The sum of the second number and the fifth number

Quantity II. The sum of the third number and the fourth number

- 1) Quantity I > Quantity II
- 2) Quantity I ≥ Quantity II
- 3) Quantity II ≤ Quantity I
- 4) Quantity II > Quantity I
- 5) Quantity I = Quantity II or No relation

85. The radius of a circle is equal to the side of a square whose area is 441 cm².

Quantity I. Perimeter of the square

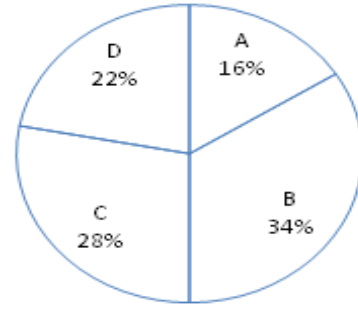
Quantity II. Circumference of the circle

- 1) Quantity I > Quantity II
- 2) Quantity I ≥ Quantity II
- 3) Quantity II ≤ Quantity I
- 4) Quantity II > Quantity I
- 5) Quantity I = Quantity II or No relation

Directions (86-90): Study the following pie-chart and table carefully to answer the questions that follow:

The pie-chart shows the percentage distribution of employees in four different companies and the table

shows the ratio of male to female employees in the companies **Total employees = 9000**



Company	Ratio	
	Male	Female
A	5	4
B	3	2
C	7	3
D	11	7

86. What is the ratio of the total number female employees in companies A and C together to the total number of female employees in the same companies together?

- 1) 341:249
- 2) 441:349
- 3) 541:649
- 4) 741:349
- 5) None of these

87. The total number of male employees in Company A is approximately what per cent more/less than the total number of male employees in Company B?

- 1) 56% less
- 2) 65% less
- 3) 45% less
- 4) 66% more
- 5) 72% more

88. What is the difference between the total number of employees in Company C and the total number of employees in Company D?

- 1) 580
- 2) 450
- 3) 540
- 4) 640
- 5) None of these

89. The total number of male and female employees in Company E are respectively 40% and 20% more than the total number of male and female employees in Company D. Find the total number of employees in Company E.

- 1) 2816
- 2) 2618
- 3) 2168
- 4) 2218
- 5) None of these

90. The total number of male employees in Company B is how much more than the total number of female employees in Company C?

- 1) 780
- 2) 620
- 3) 980
- 4) 1080
- 5) None of these

Directions (91-95): What approximate value should come in place of question mark (?) in the following questions? (Note: You are not expected to calculate the exact value.)

91. 49.767% of 1330 + 68.679% of 2000 = ?

- 1) 1845 2) 2145 3) 2375 4) 2045 5) 1955

92. $\frac{219.98}{?} = \sqrt{120.87} + \sqrt{81.02}$

- 1) 11 2) 9 3) 13 4) 17 5) 19

93. 24.02% of 450.01 \div ? = $231.98 \div \sqrt{840.98}$

- 1) 4 2) 24 3) 14 4) 18 5) 20

94. $2^2 = 16.01 \div 64.01 \times 511.98 \div 3.99$

- 1) 3 2) 5 3) 8 4) 15 5) 7

95. $(? \div 4.97) \times 10.08 = 20.12\%$ of 1020.07

- 1) 100 2) 98 3) 51 4) 102 5) 110

96. Inside a square plot, a circular garden is developed which exactly fits in the square plot and the diameter of the garden is equal to the side of the square plot which is 14 metres. What is the area of the space left in the square plot after developing the garden?

- 1) 42 cm^2 2) 50 cm^2 3) 62 cm^2
4) 24 cm^2 5) None of these

97. The profit earned by an Organisation is distributed among officers and clerks in the ratio of 5: 4. If the number of officers is 40 and the number of clerks is 75 and the amount received by each officer is ₹20000 then what is the total amount of profit earned?

- 1) ₹1640000 2) ₹1440000 3) ₹1240000
4) ₹1840000 5) None of these

98. A shopkeeper labeled the price of his article so as to earn a profit of 20% on the cost price, He then sold the article by offering a discount of 5% on the labeled price. What is the actual percentage profit earned in the deal?

- 1) 21% 2) 14% 3) 20% 4) 18% 5) 10%

Directions (99-100): Study the following information carefully and answer the questions given below:

In a school having 60 students, boys and girls are in the ratio of 5: 7. The students speak Hindi, English or both the languages. 10% of the boys speak only Hindi 20% of the girls speak only English. 25% of the total students speak only Hindi and the number of boys speaking both the languages is five times the number of boys speaking only Hindi.

99. The number of girls speaking only Hindi is what per cent of the total number of students speaking only Hindi?

- 1) $79\frac{2}{3}\%$ 2) $81\frac{1}{3}\%$ 3) $83\frac{1}{3}\%$
4) $80\frac{1}{3}\%$ 5) None of these

100. What is the ratio of the total number of boys to the number of girls who speak both the languages?

- 1) 40: 21 2) 31: 50 3) 60: 31
4) 35: 29 5) None of these

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Answers:

1.4	2.5	3.3	4.5	5.2	6.3
7.1	8.5	9.1	10.4	11.3	12.1
13.2	14.3	15.5	16.3	17.2	18.4
19.2	20.1	21.2	22.3	23.5	24.3
25.1	26.4	27.3	28.5	29.2	30.4
31.2	32.3	33.3	34.4	35.1	36.3
37.4	38.2	39.2	40.4	41.3	42.2
43.3	44.2	45.4	46.5	47.1	48.3
49.3	50.1	51.3	52.4	53.2	54.4
55.1	56.2	57.3	58.3	59.4	60.1
61.2	62.3	63.1	64.4	65.4	66.2
67.1	68.4	69.3	70.2	71.2	72.4
73.1	74.1	75.5	76.2	77.1	78.2
79.2	80.4	81.1	82.2	83.3	84.5
85.2	86.5	87.1	88.3	89.2	90.4
91.4	92.1	93.3	94.2	95.4	96.1
97.2	98.2	99.3	100.5		