



IBPS Clerk 2018 Model  
Paper

All India Mock Test

1. In each of these questions, a sentence with four words printed in bold type is given. These are numbered as A, B, C and D. One of these four words printed in bold may be either wrongly spelled or inappropriate in context of the sentence. Find out the word which is wrongly spelled or inappropriate, if any. The number of that word is your answer. If all the words printed in bold are correctly spelled and also appropriate in the context of the sentence, mark (e) "All are correct" as your answer.  
The Bombay High Court had to remind the CBFC that **certification**, and not **ensorship**, is its primary role and that its power to order changes and cuts must be exercised in **accordance** with **constitutional** principles.  
(1) certification  
(2) censorship  
(3) accordance  
(4) constitutional  
(5) all are correct
2. In each of these questions, a sentence with four words printed in bold type is given. These are numbered as A, B, C and D. One of these four words printed in bold may be either wrongly spelled or inappropriate in context of the sentence. Find out the word which is wrongly spelled or inappropriate, if any. The number of that word is your answer. If all the words printed in bold are correctly spelled and also appropriate in the context of the sentence, mark (e) "All are correct" as your answer.  
The potential of India's district hospital system to **dramatically** expand **access** to quality secondary and **teritiary** health care has never really been **realised**.  
(1) dramatically  
(2) access  
(3) teritiary  
(4) realised  
(5) all are correct
3. In each of these questions, a sentence with four words printed in bold type is given. One of these four words printed in bold may be either wrongly spelled or inappropriate in context of the sentence. Find out the word which is wrongly spelled or inappropriate, if any. The number of that word is your answer. If all the words printed in bold are correctly spelled and also appropriate in the context of the sentence, mark (e) "All are correct" as your answer.  
The **electoral** outcome is an organic **manifesation** of the people's will,

whereas an opinion poll is an **inadequate** tool to **comprehend** this democratic spirit.

- (1) Electoral
- (2) Manifesation
- (3) Inadequate
- (4) Comprehend
- (5) All are correct

4. In each of these questions, a sentence with four words printed in bold type is given. These are numbered (A), (B), (C) & (D). One of these four words printed in bold may be either wrongly spelled or inappropriate in context of the sentence. Find out the word which is wrongly spelled or inappropriate, if any. The number of that word is your answer. If all the words printed in bold are correctly spelled and also appropriate in the context of the sentence, mark (e) "All are correct" as your answer.

We **assessed** our students and found that 74 **percentage** of students can't read their text books, **especially** the students of Class II are **inable** to read their books.

- (1) Assessed
- (2) Percentage
- (3) Especially
- (4) Inable
- (5) All are correct

5. In each of these questions, a sentence with four words printed in bold type is given. These are numbered (A), (B), (C) & (D). One of these four words printed in bold may be either wrongly spelled or inappropriate in context of the sentence. Find out the word which is wrongly spelled or inappropriate if any. The number of that word is your answer. If all the words printed in bold are correctly spelled and also appropriate in the context of the sentence, mark (e) "All are correct" as your answer.

According to the UN, the blend has **created** an urban landscape **percieved** to be of great beauty by many writers and **travellers** and one that has **shaped** the culture of the city.

- (1) Created
- (2) Percieved
- (3) Travellers
- (4) Shaped
- (5) All are correct

6. In the following questions, the sentences are given with grammatical errors or incorrect sentence construction. Find out which of the following sentences is error free and logically constructed. If none of the sentences are error-free, select the option "None of the sentences is correct".
- (1) None of the sentences is correct.
  - (2) Project 523 were shrouded in secrecy, and few results were published.
  - (3) Project 523 was shrouded in secrecy, and little results were published.
  - (4) Project 523 was shrouded in secrecy, and few results were published.
  - (5) Project 523 was shroud in secrecy, and few results were published.
7. In the following questions the sentences are given with grammatical errors or incorrect sentence construction. Find out which of the following sentences is error free and logically constructed. If none of the sentences are error free, select the option "None of the sentences is correct".
- (1) Psychologists that study how people cope with isolation have learnt much from solo explorers and mountaineers.
  - (2) Psychologists whom study how people cope with isolation have learnt much from solo explorers and mountaineers.
  - (3) None of the sentences is correct.
  - (4) Psychologists who study how people cope to isolation have learnt much from solo explorers and mountaineers.
  - (5) Psychologists who study how people cope with isolation have learnt many from solo explorers and mountaineers.
8. Identify the correct sentences from the options given below.
- (1) When kite flying you can always tell when you lose a kite because the string feels loose.
  - (2) When kite flying you can always tell when you loose a kite because the string feels lose.
  - (3) When kite flying you can always tell when you loose a kite because the string feels loose.
  - (4) When flying a kite, you can, always tell when you lose a kite because the string feels lose.
  - (5) While flying a kite, you can always tell if you lost a kite when the string felt lose.
9. Which of the following sentences grammatically incorrect?
- (1) Bats are able to fly in the dark.
  - (2) Bats can fly in the dark
  - (3) Bats have the ability to fly in the dark.
  - (4) Bats cannot fly in the dark if it rains.

(5) Bats have the ability to flying in the dark, if it does not rain.

10. Read each sentence to find out whether there is any grammatical mistake/error in it. The error, if any, will be in one part of the sentence. Mark the number of that part with error as your answer. If there is no error, mark (e).
- (1) During examination, advise
  - (2) of a teacher is
  - (3) very helpful to
  - (4) all the students.
  - (5) No Error
11. Read each sentence to find out whether there is any grammatical mistake/error in it. The error, if any, will be in one part of the sentence. Mark the number of that part with error as your answer. If there is no error, mark (e).
- (1) You won't get
  - (2) a raise until
  - (3) you are worked
  - (4) here as long as Eshan.
  - (5) No error.
12. Read each sentence to find out whether there is any grammatical mistake/error in it. The error, if any, will be in one part of the sentence. Mark the number of that part with error as your answer. If there is no error, mark (e).
- (1) Camp food is just
  - (2) one of the summertime
  - (3) nutrition challenged for
  - (4) parents these days.
  - (5) No error



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13. Read each sentence to find out whether there is any grammatical mistake/error in it. The error, if any, will be in one part of the sentence. Mark the number of that part with error as your answer. If there is no error, mark (e).

- (1) We saw two
- (2) puppies at the
- (3) pound and took
- (4) home the cutest one.
- (5) No Error

**Directions for Questions 14 to 18:** Read the following passage carefully and answer the questions given below it. Certain words/phrases are given in bold in the passage to help you locate them while answering some of the questions.

China's **contentious** one-child policy, which in 2013 newly anointed President Xi Jinping signaled may be relaxed gradually during his incumbency, is already partly a misnomer. Some twenty-two legal exceptions have allowed 35 percent of families at least two; many Chinese refer to it as the '1 ½-child policy'. People living in a rural region can try for another child after six years; the required length of spacing also varies by province. Besides the rural allowance, since 2002 China's fifty-six ethnic minorities - anyone other than the 92 percent Han majority - have been permitted three, lest they shrink into cultural extinction. Exemptions were also granted for miners (because of high mortality), for the disabled, and for children born abroad.

In recent years, only children who marry each other may now also have two, although most couples willingly stop at one: the cost of kids gets **daunting** if two singles also are expected to help support four retired parents and up to eight grandparents. With China building more and bigger cities than the Earth has ever seen, and filling them as soon as the concrete dries, the newly urban occupants no longer need sons for farmhands. Instead, they need factory salaries to raise the one allotted to them. Only the luckiest who, through some entrepreneurial stroke, propel themselves up the upwardly mobile spiral, can even think of more children.

Although bereft of siblings, Lin Xia also benefited from the one-child policy. Before, when sons had preference, just one-fourth of university students were female. Today, it's nearly half. After studying mechanical engineering and communications, she works as a science writer. Her magazine's office is in one of the dozens of skyscrapers built in the pre-2008 Olympics frenzy in Chaoyang, a bleak industrial warren that metamorphosed into Beijing's gleaming Central Business District. It's exciting to live in this incredible city and bigger-than-anything country.

14. What is true about China's one child policy?

- (1) It has been a complete failure.
- (2) Will be operational forever.
- (3) Has provided benefits also.
- (4) Is not supported by people.
- (5) Will lead to extinction of minorities

15. Why does the author call one child policy partly a 'misnomer'?

- (1) Because the policy is controversial
- (2) Because it is called "1 1/2 child" policy by people.
- (3) Because only children who marry each other are allowed to have more than one child.
- (4) Because it will be gradually relaxed in coming years
- (5) Because it allows more than one child in various communities of China

16. Which of the following exceptions is allowed by one child policy?

- (A) People living in rural area can try for third child after six years.
- (B) Fifty six of non-Han communities have been allowed 3 children
- (C) Miners do not have to follow the one child policy.
- (1) None
- (2) Only (A)
- (3) Only (A) & (B)
- (4) Only (B)
- (5) Only (B) & (C)

17. What has caused more female students to join the universities?

- (1) The universities have made the examination easier.
- (2) Male students have found other ways of getting education
- (3) Government has relaxed the norms of admission benefit female student.
- (4) There has been a balance in female to male ratio
- (5) The jobs after universities have been more inclined towards females

18. According to the passage, which of the following is true?

- (1) More than 50% of the families have more than one child.
- (2) Ethnic communities have been recently allowed 3 children.
- (3) Rural population cannot have more than one child
- (4) Farms in China are getting fewer and fewer
- (5) None of the above

19. Which of the following words is most similar in meaning to the word 'CONTENTIOUS' as used in the passage?

- (1) Problematic
- (2) Misunderstood
- (3) Misspoken
- (4) Praised
- (5) Appreciated

20. Which of the following words is most opposite in meaning to the word 'DAUNTING' as used in the passage?

- (1) Challenging
- (2) Easy
- (3) Important
- (4) Dangerous
- (5) Impossible

21. For each of the questions below, a sentence is given with one blank in it. Choose the option that provides the correct word to be filled in the blank.

Health budgets in some Southeast Asian countries are extremely \_\_\_\_\_, as they have to contend with several health challenges.

- (1) Severe
- (2) Strained
- (3) Careless
- (4) Banked
- (5) None of the above

22. For each of the questions below, a sentence is given with one blank in it. Choose the option that provides the correct word to be filled in the blank.

Despite being criticized over human rights issues both domestically and \_\_\_\_\_, China has been trying to step up as a responsible global member.

- (1) Partially
- (2) Sarcastically
- (3) Internationally
- (4) Actively
- (5) None of the above

23. For each of the questions below, a sentence is given with one blank in it. Choose the option that provides the correct word to be filled in the blank.

Today, sweeteners are increasingly controversial, and are \_\_\_\_\_ of contributing to weight gain and being carcinogenic.

- (1) Accused
- (2) Liable
- (3) Reason
- (4) Capable
- (5) All of the above

24. For each of the questions below, a sentence is given with one blank in it. Choose the option that provides the correct word to be filled in the blank.

Article 21 of the Constitution places the personal liberty of citizens on the \_\_\_\_\_ pedestal, and so it is the duty of our courts to protect it.

- (1) Highest
- (2) Surest
- (3) Short
- (4) Explicit
- (5) All of the above

25. For each of the questions below, a sentence is given with one blank in it. Choose the option that provides the correct word to be filled in the blank.

Every fall, grocery stores line their shelves with pumpkin spice-flavoured products that \_\_\_\_\_ from traditional pumpkin pies to the questionable pumpkin spice candy corn.

- (1) Streak
- (2) Range
- (3) Migrate
- (4) Taste
- (5) None of the above



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26. In each question below some sentences are given which are divided into five parts. The first part of the sentence (1) is correct and is given in bold followed by four parts named A, B, C and D. Rearrange the four parts of the sentence to make a coherent paragraph. The rearranged sequence of the parts will be your answer. If the given sentence is correct as it is, then choose option (e) - No rearrangement required.

**Still, the lure of the annual (1)**/meeting of these teams (A)/to attract a crowd of 33176 (B)/which is known across the state (C)/as the Civil War, was strong enough (D)

- (1) BDCA
- (2) ACDB
- (3) DACB
- (4) CADB
- (5) No rearrangement required

27. In each question below some sentences are given which are divided into five parts. The first part of the sentence (1) is correct and is given in bold followed by four parts named A, B, C and D. Rearrange the four parts of the sentence to make a coherent paragraph. The rearranged sequence of the parts will be your answer. If the given sentence is correct as it is, then choose option (e) - No rearrangement required.

**Now, the company is exploring (1)**/arrangements and extra (A)/time off, in part (B)/the expansion of flexible work (C)/to retain those employees (D)

- (1) ABDC
- (2) BACD
- (3) CABD
- (4) DCAB
- (5) No rearrangement required

28. In each question below some sentences are given which are divided into five parts. The first part of the sentence (1) is correct and is given in bold followed by four parts named A, B, C and D. Rearrange the four parts of the sentence to make a coherent paragraph. The rearranged sequence of the parts will be your answer. If the given sentence is correct as it is, then choose option (e) - No rearrangement required.

**The White House is working (1)**/to tackle the issue early next year (A)/housing finance system, and (B)/Congress is expected (C)/on a plan to overhaul the (D)

- (1) DBCA
- (2) BADC
- (3) CBDA
- (4) ADBC
- (5) No rearrangement required

29. In each question below some sentences are given which are divided into five parts. The first part of the sentence (1) is correct and is given in bold followed by four parts named A, B, C and D. Rearrange the four parts of the sentence to make a coherent paragraph. The rearranged sequence of the parts will be your answer. If the given sentence is correct as it is, then choose option (e) - No rearrangement required.

**If you've been laid off (1)**/and your former employer is (A)/back to work at your old firm (B)/hiring again, you might see the (C)/news as a chance to get (D)

- (1) BDCA
- (2) ACDB
- (3) DACB
- (4) CADB
- (5) No rearrangement required

30. In each question below some sentences are given which are divided into five parts. The first part of the sentence (1) is correct and is given in bold followed by four parts named A, B, C and D. Rearrange the four parts of the sentence to make a coherent paragraph. The rearranged sequence of the parts will be your answer. If the given sentence is correct as it is, then choose option (e) - No rearrangement required.

**Most of the corn around (1)**/the world is harvested by (A)/December, so farmers tend to (B)/use the contract expiring (C)/that month to hedge their price risk (D)

- (1) ABDC
- (2) BACD
- (3) CABD
- (4) DCAB
- (5) No rearrangement required

31. If product of ages of A and B is 320 years and age of B after 2 years is 6 less than the age of A after 4 years, then what is the present age of B?

- (1) 18 years
- (2) 16 years
- (3) 15 years
- (4) 14 years
- (5) 20 years

32. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

I.  $10x^2 - 21x + 9 = 0$

II.  $y^2 - 19y + 70 = 0$

- (1)  $x < y$
- (2)  $x > y$
- (3)  $x \leq y$
- (4)  $x \geq y$
- (5)  $x = y$  or relationship cannot be established

33. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

I.  $x^2 - 22x + 105 = 0$

II.  $y^2 + 10y - 39 = 0$

- (1)  $x < y$
- (2)  $x > y$
- (3)  $x \leq y$
- (4)  $x \geq y$
- (5)  $x = y$  or relationship cannot be established

34. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

I.  $x^2 - 27x + 92 = 0$

II.  $9y^2 + 15y - 50 = 0$

- (1)  $x < y$
- (2)  $x > y$
- (3)  $x \leq y$
- (4)  $x \geq y$
- (5)  $x = y$  or relationship cannot be established

35. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

I.  $x^2 + 15x - 54 = 0$

II.  $y^2 - 15y + 50 = 0$

- (1)  $x < y$
- (2)  $x > y$
- (3)  $x \leq y$
- (4)  $x \geq y$
- (5)  $x = y$  or relationship cannot be established

36. In the following questions two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

I.  $x^2 - 33x + 260 = 0$

II.  $y^2 - 6y - 91 = 0$

- (1)  $x < y$
- (2)  $x > y$
- (3)  $x \leq y$
- (4)  $x \geq y$
- (5)  $x = y$  or relationship cannot be established

37. Each of the questions below consists of a question and two statements numbered A and B given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

The average temperature of a week was  $27^\circ\text{C}$ . what was the temperature on Thursday?

A. The average temperature from Monday to Wednesday was  $31^\circ\text{C}$ .

B. The average temperature from Friday to Sunday was  $24^\circ\text{C}$ .

- (1) If the question can be answered by using statement A alone but not by using statement B alone.
- (2) If the question can be answered by using statement B alone but not by using statement A alone.
- (3) If the question can be answered by using either of the statements alone.
- (4) If the question can be answered by using both the statements together but not by either of the statements alone.
- (5) If the questions can't be answered even by using both the statements together.



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38. Each question below is followed by two statements I and II. You have to determine whether the data given in the statement is sufficient for answering the question. Population of a town increased by 10% every year. Find the population of the town in 2015.

**Statement I:** Population of the town in 2018 is 14641.

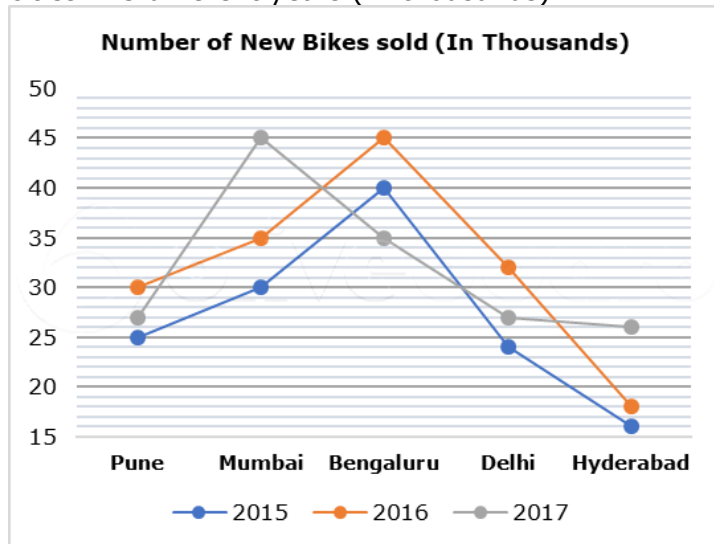
**Statement II:** Population of the town in 2014 was 10000.

- (1) if the statement I alone is sufficient to answer the question, but the statement II alone is not sufficient.  
 (2) if the statement II alone is sufficient to answer the question, but the statement I alone is not sufficient.  
 (3) if both statements I and II together are needed to answer the question.  
 (4) if either the statement I alone or statement II alone is sufficient to answer the question.  
 (5) if you cannot get the answer from the statements I and II together, but need even more data.
39. Every problem consists of a question followed by 2 statements. Check whether the statements are sufficient to answer to the question and choose the option accordingly.  
 The mother is currently 25 years older than the son. What is the ratio of present ages of Father and son?  
 I. 5 years ago, Father was thrice as old as the son.  
 II. After 5 years, Father's age will be 10% more than the age of the mother.  
 (1) Statement I alone is sufficient, but Statement II alone is not sufficient to answer the question.  
 (2) Statement II alone is sufficient, but Statement I alone is not sufficient to answer the question.  
 (3) Both statements taken together are sufficient to answer the question, but neither statement alone is sufficient.  
 (4) Either statement alone is sufficient.  
 (5) Both statements together are not sufficient to answer the question.
40. Every problem consists of a question followed by 2 statements. Check whether the statements are sufficient to answer to the question and choose the option accordingly.  
 What is the ratio of radii of the 2 cylinders?  
 I. The ratio of their Volumes is 2:3  
 II. The ratio of their total surface areas is 2:3

- (1) Statement I alone is sufficient, but Statement II alone is not sufficient to answer the question.  
 (2) Statement II alone is sufficient, but Statement I alone is not sufficient to answer the question.  
 (3) Both statements taken together are sufficient to answer the question, but neither statement alone is sufficient.  
 (4) Either statement alone is sufficient.  
 (5) Both statements together are not sufficient to answer the question.

41. Every problem consists of a question followed by 2 statements. Check whether the statements are sufficient to answer to the question and choose the option accordingly.  
 By how many meters will A beat C in a 1 km race?  
 I. In a race of 600 meters, A beats B by 60 metres.  
 II. In a race of 400 meters B beats C by 20 meters.  
 (1) Statement I alone is sufficient, but Statement II alone is not sufficient to answer the question.  
 (2) Statement II alone is sufficient, but Statement I alone is not sufficient to answer the question.  
 (3) Both statements taken together are sufficient to answer the question, but neither statement alone is sufficient.  
 (4) Either statement alone is sufficient.  
 (5) Both statements together are not sufficient to answer the question.

**Directions for Questions 42 to 46:** Following graph shows the number of new bikes sold in 5 cities in 3 different years (In thousands).







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42. What is the difference between the average number of bikes sold in year 2016 in all 5 cities together and average number of bikes sold in 2015 in all cities together?
- (1) 4500
  - (2) 5000
  - (3) 5400
  - (4) 6000
  - (5) Other than above
43. Total number of bikes sold in Pune and Delhi in all 3 years together is what percent of the total number of bikes sold in Bengaluru in 3 years together?
- (1) 130%
  - (2) 145.5%
  - (3) 137.5%
  - (4) 160.4%
  - (5) None of the above
44. Total number of bikes sold in all 5 cities together in 2015 was what percent more/less than the total number of bikes sold in in all 5 cities together in year 2017?
- (1) 15.625% less
  - (2) 15.625% more
  - (3) 17.5% less
  - (4) 17.25% more
  - (5) Other than above
45. What is the ratio of the total number of bikes sold in Mumbai and Bengaluru in all 3 years together to the total number of bikes sold in remaining 3 cities in 3 years together?
- (1) 46/45
  - (2) 43/45
  - (3) 42/47
  - (4) 43/49

- (5) Other than above
46. Total number bikes sold in Delhi and Hyderabad together in year 2017 is by percent increase in total number of bikes sold in these two cities together in year 2015?
- (1) 42.5%
  - (2) 35.5%
  - (3) 32.5%
  - (4) 36%
  - (5) None of the above
47. In each question below, a number series is given in which one number is wrong. Find out the wrong number.  
3, 5, 13, 43, 176, 891
- (1) 5
  - (2) 13
  - (3) 43
  - (4) 176
  - (5) 891
48. In each question below, a number series is given in which one number is wrong. Find out the wrong number.  
125, 75, 45, 25, 16.2, 9.72
- (1) 25
  - (2) 45
  - (3) 9.72
  - (4) 16.2
  - (5) 75
49. In each question below, a number series is given in which one number is wrong. Find out the wrong number.  
29, 37, 21, 43, 13, 53, 5
- (1) 37
  - (2) 53
  - (3) 13
  - (4) 21
  - (5) 43
50. Find the wrong number of the series  
12, 26, 54, 118, 244, 498, 1008
- (1) 244
  - (2) 118
  - (3) 1008
  - (4) 498
  - (5) 54
51. Find the wrong number in the following number series:  
165, 219, 344, 560, 903, 1415
- (1) 219
  - (2) 165
  - (3) 344
  - (4) 903
  - (5) 560

52. A, B and C invested their money in the ratio  $1/15 : 1/12 : 1/10$ . If the profit at the end of the year is Rs 45,000, what is the value of A's share?

- (1) Rs 10,000
- (2) Rs 12,000
- (3) Rs 15,000
- (4) Rs 18,000
- (5) Rs 9,000

53. If an item is sold at 20% discount, then gives 100% profit and if it is sold at Rs.400 discount, then it gives 50% profit. If it is sold at 25% discount, then what is the profit on it?

- (1) Rs.300
- (2) Rs.360
- (3) Rs.350
- (4) Rs.400
- (5) Rs.450

54. A vessel contains liquid A and B in the ratio 5:3. If 16 liters of the mixture is removed and the same quantity of liquid B is added then the above ratio becomes 3:5. What is the capacity of the vessel?

- (1) 80 Liters
- (2) 64 liters
- (3) 48 liters
- (4) 40 Liters
- (5) 30 liters

55. What value will come in place of question mark (?) in the following questions?

$$16 \times ? \times 10 = 47^2 + 31$$

- (1) 14
- (2) 22
- (3) 10
- (4) 4
- (5) 16

56. What value will come in place of question mark (?) in the following questions?

$$40 \times 29 - ? + 67 \times 49 = 71 \times 50$$

- (1) 893
- (2) 869
- (3) 899
- (4) 887
- (5) 908

57. What value will come in place of question mark (?) in the following questions?

$$130\% \text{ of } 340 + ?\% \text{ of } 760 = 1810$$

- (1) 200
- (2) 215
- (3) 130
- (4) 180
- (5) 190

58. What value will come in place of question mark (?) in the following question?

$$\sqrt{169} + ? = 2 \frac{6}{7} \text{ of } 63$$

- (1) 170
- (2) 174
- (3) 160
- (4) 167
- (5) 159

59. What value will come in place of question mark (?) in the following question?

$$20/2 - 11 \times 14 + \sqrt[3]{27} = ?$$

- (1) -141
- (2) -143
- (3) -147
- (4) -151
- (5) -155

60. What value will come in place of question mark (?) in the following question?

$$22.22\% \text{ of } 153 + 85.71\% \text{ of } 266 + 44.44\% \text{ of } 99 = ?$$

- (1) 306
- (2) 297
- (3) 324
- (4) 321
- (5) 315

61. What value will come in place of question mark (?) in the following question?

$$\sqrt[3]{10648} - \sqrt[3]{3375} - \sqrt[3]{1728} = ?$$

- (1) -6
- (2) 3
- (3) -5
- (4) 0
- (5) -10

62. What value will come in place of question mark (?) in the following question?

$$(0.2)^{78} \div 0.008^{73} = (0.2)^?$$

- (1) -159
- (2) -156
- (3) -129
- (4) -141
- (5) -147

63. What value will come in place of question mark (?) in the following question?

$$40^2 + 39^2 + 16^2 = ?$$

- (1) 3307
- (2) 3337
- (3) 3387
- (4) 3377
- (5) 3477

64. What value will come in place of question mark (?) in the following questions?

$$(?)^2 + 5^3 = 19^2 - 11$$

- (1) 31
- (2) 27
- (3) 15
- (4) 11
- (5) 3

65. A person walking with certain speed covers distance between his home and his friend's home at 3 pm. He will reach his friend's home at 4 pm if he decreases his speed by 25%. How much time will person take to reach his friend's home if he increases his speed by 50%?

- (1) 1.5 hours
- (2) 2.3 hours
- (3) 2.5 hours
- (4) 2 hours
- (5) 2.8 hours

**Directions for Questions 66 to 70:** Eight books were kept one above the other in the form a stack. The positions of these books were numbered as 1-8 with 1 being the lowermost book and 8 the topmost position. The books were among Scarlet, Nemesis, Mathilda, Prison, Haunted, Demons, Stardust and Fangirl. Mathilda was placed at the 7<sup>th</sup> position and was above Fangirl. There were two books between Haunted and Demons, with the former being at a position below the latter. There was only one book between Mathilda and nemesis. The Prison was at an odd position but not 3<sup>rd</sup>. The stardust was adjacent to Haunted but not to the prison.

66. Which book was placed just above the Stardust?

- (1) Mathilda
- (2) Nemesis
- (3) Demons
- (4) Haunted
- (5) Fangirl

67. How many books were placed between Fangirl and Mathilda?

- (1) 2
- (2) 3
- (3) 4
- (4) 5
- (5) 1

68. Which book was placed at 6<sup>th</sup> position?

- (1) Nemesis
- (2) Demons
- (3) Haunted
- (4) Stardust
- (5) Fangirl

69. Which pair among the following is odd from the rest?

- (1) 6<sup>th</sup>, Nemesis
- (2) 3<sup>rd</sup>, Fangirl
- (3) 8<sup>th</sup>, Mathilda
- (4) 2<sup>nd</sup>, Prison
- (5) 4<sup>th</sup>, Stardust

70. Which among the following is odd from the rest?

- (1) Demons
- (2) Scarlet
- (3) Fangirl
- (4) Mathilda
- (5) Stardust



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**Directions for Questions 71 to 75:** Seven persons namely - E, P, Q, R, S, T and U are sitting in a linear row facing in north direction, such that the person whose name is a vowel doesn't sit at any even numbered positions. Counting of position starts from left end.

Two persons sit between U and T. P doesn't sit at the extreme ends. R sits immediate right to T. Two persons sit between R and S. E is sitting immediate next to neither T nor Q. P sits immediate next to neither R nor E.

71. Who among the following are sitting at even numbered positions?

- I. P
- II. R
- III. Q
- IV. T
- (1) Both I and III
- (2) Both III and IV
- (3) I, III and IV
- (4) II, I and III
- (5) Both II and IV

72. How many persons sit between E and U?

- (1) 1
- (2) 3
- (3) 5
- (4) 4
- (5) Either 3 or 5

73. What is the position of R with respect to Q?

- (1) Second to the right
- (2) Second to the left
- (3) Immediate right
- (4) None of these
- (5) Immediate left

74. Find the odd one out.

- (1) E, T
- (2) T, U
- (3) P, E
- (4) R, S
- (5) P, Q

75. Which pair among the following sits at the extreme ends?

- (1) S, U
- (2) Q, U
- (3) None of these
- (4) E, U
- (5) S, Q

**Directions for Questions 76 to 80:** Study the following information carefully & answer the following questions:

There are 10 members A, B, C, D, E, F, G, H, I & J in a family. There are equal number of male & female members in the family. B's only sister A has one brother J who is married to I. D, who is husband of H, has 3 children. A is paternal aunt of E & F. C is brother-in-law of E. Each couple has atleast one child and for every person either none or both of its parents are alive. C is not having any siblings.

76. Four of the following are similar in some way. Find the odd one.

- (1) D
- (2) E
- (3) J
- (4) G
- (5) F

77. How is D related to F?

- (1) Paternal grandfather
- (2) Maternal grandfather
- (3) Father
- (4) Father-in-law
- (5) None of these

78. F is related to J in some way, in same way B is related to D. Then to whom among the following A is related in the same way?

- (1) H
- (2) I
- (3) E
- (4) J
- (5) D

79. In certain code "RIVER" is coded as "QNQSZ" & "WATER" is coded as "XUYQZ", then which of the following can be code for "VITA"?

- (1) SNXU
- (2) SNUY
- (3) SNXY
- (4) All of the above
- (5) None of these

80. Two friends start from a common point P. One drives 6 kms towards the North and the other drives 6 kms towards East, after which both take a left turn, drive another 6 kms and stop. How far are the two friends from each other when the two finally stop?

- (1) 6 Kms.
- (2) 12 Kms.
- (3) 4 Kms.
- (4) 10 Kms.
- (5) 0

81. Find the odd one out.

- (1) BDF
- (2) EJR
- (3) CFI
- (4) ABC
- (5) DHL

**Directions for Questions 82 to 86:** There are five 3-digit numbers as given below and digits are counted from left to right, unless specifically mentioned.

374 562 847 583 247

82. If first & second digits of all the numbers are interchanged, which of the following number will be highest after the rearrangement?

- (1) 374
- (2) 562
- (3) 847
- (4) 583
- (5) 247

83. The digit-sum of which of the following number has second lowest value?

- (1) 374
- (2) 562
- (3) 847
- (4) 583
- (5) 247



84. For all the numbers, if the first digit is increased by 1 & the third digit is decreased by 2, then digits of which of the following number will be in ascending order?
- 374
  - 562
  - 847
  - 583
  - 247
85. The difference between the middle digits of the lowest number and the second highest number respectively is \_\_\_\_.
- 4
  - 1
  - 2
  - 4
  - 2
86. If all the digits within each number are arranged in descending order, which of the following will be the lowest number after the rearrangement?
- 374
  - 562
  - 847
  - 583
  - 247
87. How many such pairs of letters are there in the word 'VULGARIZED' each of which has as many letters between them in the word as in the English alphabet?
- 0
  - 1
  - 6
  - 3
  - 8
88. All vowels of the word "KEYBOARD" are arranged in alphabetical order from left to right (starting from extreme left) and consonants are arranged from right to left in reverse alphabetical order (starting from extreme right), then how many alphabets will appear between A and R?
- 0
  - 3
  - 1
  - 5
  - 2
89. Which of the following is the next element of the given series?  
TRPNLJHFDPNLFHFTPLJHTP\_
- J
  - L
  - T
  - P
  - H

90. In the following questions, the statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate option as your answer.
- $P > E = N \geq C \geq I = L$   
I.  $N = L$   
II.  $I < E$
- Either I or II follow
  - Neither I nor II follow
  - Both I and II follow
  - Only I follow
  - Only II follow
91. In the following questions, the statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate option as your answer.
- $J < K = L > M$ ;  $R < S < J$ ;  $L > F > S$   
I.  $S < M$   
II.  $R > F$
- Both I and II follow
  - Only I follow
  - Only II follow
  - Neither I nor II follow
  - Either I or II follow
92. In the following questions, the statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate option as your answer.
- $P = K \geq G > H \leq Q$ ;  $H > S \leq R = T$   
I.  $P > S$   
II.  $G < T$
- Only I follow
  - Only II follow
  - Both I and II follow
  - Either I or II follow
  - Neither I nor II follow



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93. In the following questions, the statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate option as your answer.

$S > T > A = Y$ ;  $F \geq L \geq Y$ ;  $F \geq A \geq N$

I.  $L \geq N$

II.  $N \leq S$

(1) Neither I nor II follow

(2) Both I and II follow

(3) Only I follow

(4) Only II follow

(5) Either I or II follow

**Directions for Questions 94 to 95:** Study the following information carefully to answer the given questions:

Seven persons - A, B, C, D, K, L and N - are seated in a straight line facing north in ascending order of their salaries. N earns more than L and D. N earns more than A but he does not earn the highest. A earns more than L. The person who earns the second highest receives a salary of Rs. 35,000 while the third lowest earner receives Rs. 23,000. K earns less than L but more than D. C earns Rs. 18,000. D did not earn the lowest.

94. Who among the following earn(s) more than Rs. 23,000 but less than Rs. 35,000?

(1) Only A

(2) Only L

(3) A and L

(4) K and L

(5) A and N

95. Who among the following may earn Rs. 21,000?

(1) K

(2) D

(3) L

(4) C

(5) N

**Directions for Questions 96 to 100:** 8 persons P, Q, R, S, T, U, V and W are born on different dates in the year 1995. Each one of them is born

on either 12<sup>th</sup> or 23<sup>rd</sup> of the month. Each one is born in either January or April or June or November, not necessarily in the same order. P is neither born on even date nor born in the month having even number of days. Only 3 persons are between P and S. S and W are born in the same month. 2 persons are born between W and U. Q is born in the same month as that of R and is born on the same date as that of V. T is neither born on odd date nor born in the month having odd number of days.

96. Who is born on 12<sup>th</sup> November?

(1) V

(2) Q

(3) W

(4) S

(5) T

97. Who is born on 12<sup>th</sup> January?

(1) Q

(2) V

(3) W

(4) S

(5) T

98. V and \_\_\_ are born in the same month.

(1) T

(2) U

(3) W

(4) P

(5) S

99. \_\_\_ and T are born in the same month.

(1) U

(2) P

(3) S

(4) W

(5) R

100. Who among the following is elder than P?

(1) U and W

(2) U, V and S

(3) Only T

(4) Only V

(5) More than one of the above

## Answer key:

1. 5	2. 3	3. 2	4. 4	5. 2
6. 4	7. 3	8. 1	9. 5	10. 1
11. 3	12. 3	13. 4	14. 3	15. 5
16. 5	17. 4	18. 4	19. 1	20. 2
21. 2	22. 3	23. 4	24. 1	25. 2
26. 2	27. 3	28. 1	29. 2	30. 5
31. 2	32. 1	33. 2	34. 2	35. 1
36. 4	37. 4	38. 4	39. 3	40. 5
41. 3	42. 2	43. 3	44. 1	45. 1
46. 3	47. 4	48. 1	49. 5	50. 5
51. 2	52. 2	53. 3	54. 4	55. 1
56. 1	57. 4	58. 4	59. 1	60. 1
61. 3	62. 4	63. 4	64. 3	65. 4
66. 2	67. 3	68. 2	69. 5	70. 4
71. 2	72. 3	73. 5	74. 3	75. 4
76. 5	77. 1	78. 5	79. 4	80. 2
81. 2	82. 4	83. 1	84. 5	85. 1
86. 2	87. 4	88. 4	89. 2	90. 1
91. 4	92. 1	93. 3	94. 3	95. 2
96. 5	97. 2	98. 4	99. 1	100. 4



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## Solutions:

1. All the words are correctly spelt and properly placed.
2. The third word given in bold is incorrectly spelled. The correct spelling will be 'tertiary'.
3. Option (b) is incorrectly spelled. The correct spelling is 'manifestation' - display, demonstration, indication etc.
4. The word 'inable' does not exist and should be replaced with 'unable'.
5. Option (b) is incorrectly spelled. The correct spelling is 'perceived' - recognize, view, regard, consider etc.
6. Sentence (b) is incorrect as it uses the plural verb 'were' to refer to a singular noun. Sentence (c) is incorrect as the word 'little' is only used for referring to uncountable nouns. Sentence (e) is incorrect due to wrong tense of the verb (shroud): the simple past tense should be used. Option (a) is eliminated as sentence (d) is correct.
7. Sentence (a) is incorrect as it uses the demonstrative pronoun 'that' to refer to persons; 'who' should be used. Sentence (b) is incorrect as the pronoun 'who' should be used in place of 'whom', as it is being used to refer to the subject of the verb. Sentence (d) is incorrect as the correct phrasal verb is 'cope with'. Option (e) is eliminated, since the word 'much' should be used in place of 'many', since it is uncountable. Option (c) is the right answer as none of the given sentences is correct.
8. Option a is the correct answer. To lose is to have something taken away whereas loose is used to define something that is not tightly bound. In the given sentence, the word lose should be used for kite and loose should be used with string to make the meaning of sentence clear. So, options b, c and d are ruled out. Since the sentence presents a fact, it must use simple present tense. Thus, option e which is inconsistent with respect to tense usage can be eliminated. Option a is the answer.
9. The infinitive 'to' always takes the base form of the verb. The participle form can be written using 'of'. The correct usage is "ability to fly" or "ability of flying". Option e is the answer.
10. The correct word should be advice, which is a noun, rather than advise, which is a verb. Advice means suggestion. Advise means to give suggestion.
11. Since we are using until and we are talking about an activity that will be going on till then, we need to use present perfect continuous in the sentence. The sentence should be "...until you have been working here..".
12. Since we are using " one of the ", we need a plural noun "challenges" instead of "challenged" as we always choose one from many not from one.
13. Since there are only two puppies, we have to use comparative form "cuter" instead of "the cutest".
14. Last paragraph of the passage shows that female students have increased in universities and benefited from the education. Example of Lin Xia proves it.
15. Excerpts from the passages '.. exceptions have allowed 35 percent of families at least two', 'China's fifty-six ethnic minorities have been permitted three', etc. shows that the policy allows more than one child in various communities of China. Option a is a very generic answer and thus the right option is e.
16. The middle of the first paragraph states that "fifty-six ethnic minorities - anyone other than the 92 percent Han majority have been permitted 3". And in the last line of the para "Exemptions were also granted for miners (because of high mortality)". Thus, e is the right option.
17. The last paragraph of the passage says "Before, when sons had preference, just one-fourth of university students were female. Today it's nearly half". This means the one child policy has helped balance the sex ratio.
18. The line "With China building more and bigger cities than the Earth has ever seen, and filling them as soon as the concrete dries" implies that farms are reducing.



19. Contentious means controversial which is synonymous with problematic.
20. Daunting means seeming difficult to deal with in prospect. Thus, b is the right option.
21. The sentence mentions health challenges, which need extensive expenditure to address. So, 'strained' is the apt word here. None of the other options make the sentence meaningful. B is the right answer.
22. The use of 'both' with 'domestically' and the mention of 'global' towards the end makes it clear that 'internationally' is the right choice. None of the other options make the sentence meaningful. C is the right answer.
23. Only a person or a group of people, and not 'sweeteners' can be 'accused' of something; hence, option A is eliminated. 'Liable of' is incorrect grammar; the correct usage would be 'liable to/for'; hence, B is incorrect. Option C is also eliminated as 'are reason of' is grammatically incorrect; the correct usage would be 'reason for'. D is the right answer.
24. 'Highest' is the right word here - if the Constitution regards something as necessary and important, then it becomes the duty of the courts to ensure its execution. None of the other options make the sentence meaningful. A is the right answer.
25. The sentence mentions different varieties of products made from pumpkin. 'Range' is the suitable word here. None of the other options make the sentence meaningful. B is the right answer.
26. The only starting word from the options that makes sense after 'annual' [in (1)] is 'meeting' in (A). The correct sequence will be ACDB; hence (b) is the right answer. The meaningful sentence is: *Still, the lure of the annual meeting of these teams, which is known across the state as the Civil War, was strong enough to attract a crowd of 33176.*
27. (D) will be the last part of the sentence. Also, (B) will follow (A) - 'extra time off' is logical. The sentence can start with (C). The correct sequence will be CABD; hence (c) is the right answer. The meaningful sentence is: *Now, the company is exploring the expansion of flexible work arrangements and extra time off, in part to retain those employees.*
28. Either (A) or (D) can follow (1). But (D) cannot contextually follow (A). Therefore, the correct sequence will be DBCA; hence (a) is the right answer. The meaningful sentence is: *The White House is working on a plan to overhaul the housing finance system, and Congress is expected to tackle the issue early next year.*
29. Out of the four options, only (A) can logically follow (1). The correct sequence will be ACDB; hence (b) is the right answer. The meaningful sentence is: *If you've been laid off and your former employer is hiring again, you might see the news as a chance to get back to work at your old firm.*
30. The parts of the sentence as provided are already in the correct sequence. Hence (e) is the right answer. The meaningful sentence is: *Most of the corn around the world is harvested by December, so farmers tend to use the contract expiring that month to hedge their price risk.*
31. Let age of A be A years.  
Age of B =  $(320/A)$   
As per given,  
 $(A + 4) - ((320/A) + 2) = 6$   
 $A - (320/A) + 2 = 6$   
 $(A) - (320/A) = 4$   
 $A^2 - 320 = 4A$   
 $A^2 - 4A - 320 = 0$   
 $A = 20 \text{ or } -16$   
As age is always positive so A is 20 years  
Age of B =  $(320/20) = 16$  years.



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32. From equation I:

$$10x^2 - 21x + 9 = (2x - 3)(5x - 3) = 0$$

$$\Rightarrow x = 3/2, 3/5$$

From equation II:

$$y^2 - 19y + 70 = (y - 14)(y - 5) = 0$$

$$\Rightarrow y = 14, 5$$

	$X = 3/2$	$X = 3/5$
$Y = 14$	$x < y$	$x < y$
$Y = 5$	$x < y$	$x < y$

So,  $x < y$

33. From equation I:

$$x^2 - 22x + 105 = (x - 7)(x - 15) = 0$$

$$\Rightarrow x = 7, 15$$

From equation II:

$$y^2 + 10y - 39 = (y - 3)(y + 13) = 0$$

$$\Rightarrow y = 3, -13$$

	$X = 7$	$X = 15$
$Y = 3$	$x > y$	$x > y$
$Y = -13$	$x > y$	$x > y$

So,  $x > y$

34. From equation I:

$$x^2 - 27x + 92 = (x - 23)(x - 4) = 0$$

$$\Rightarrow x = 23, 4$$

From equation II:

$$9y^2 + 15y - 50 = (3y + 10)(3y - 5) = 0$$

$$\Rightarrow y = -10/3, 5/3$$

	$X = 23$	$X = 4$
$Y = -10/3$	$x > y$	$x > y$
$Y = 5/3$	$x > y$	$x > y$

So,  $x > y$

35. From equation I:

$$x^2 + 15x - 54 = (x + 18)(x - 3) = 0$$

$$\Rightarrow x = -18, 3$$

From equation II:

$$y^2 - 15y + 50 = (y - 10)(y - 5) = 0$$

$$\Rightarrow y = 10, 5$$

	$X = -18$	$X = 3$
$Y = 10$	$x < y$	$x < y$
$Y = 5$	$x < y$	$x < y$

So,  $x < y$

36. From equation I:

$$x^2 - 33x + 260 = (x - 20)(x - 13) = 0$$

$$\Rightarrow x = 20, 13$$

From equation II:

$$y^2 - 6y - 91 = (y - 13)(y + 7) = 0$$

$$\Rightarrow y = 13, -7$$

	$X = 20$	$X = 13$
$Y = 13$	$x > y$	$x = y$
$Y = -7$	$x > y$	$x > y$

So,  $x \geq y$

37. Sum of temperatures on 7 days =  $27 \times 7 = 189^\circ\text{C}$

From sentence A or sentence B alone, we cannot determine the answer.

Using both the statements,

Sum of temperatures from Monday to

Wednesday =  $31 \times 3 = 93^\circ\text{C}$

Sum of temperatures from Friday to

Sunday =  $24 \times 3 = 72^\circ\text{C}$

Temperature on Thursday =  $189 - 93 - 72 = 24^\circ\text{C}$ .

Hence, the two statements together are sufficient to answer the question.

38. Let, population of the town in 2015 be  $n$ .

**From I:**

$$n \times 110/100 \times 110/100 \times 110/100 = 14641$$

$$\Rightarrow n = 14641 \times 100/110 \times 100/110 \times$$

$$100/110$$

$$\Rightarrow n = 11000$$

**From II:**

$$10000 \times 110/100 = n$$

$$\Rightarrow n = 11000$$

Hence, either the statement I alone or statement II alone is sufficient to answer the question.

39. Let the present ages of Father, Mother and son be 'f', 'm' and 's' years respectively.

$$m = s + 25 \dots (i)$$

**From Statement I:**

$$(f - 5) = 3(s - 5)$$

$$\Rightarrow 3s - f = 10 \dots (ii)$$

Values of f and s cannot be found out.

**From Statement II:**

$$(f + 5) = 1.1(m + 5)$$

From (i),

$$\therefore f + 5 = 1.1s + 33$$

$$\Rightarrow f - 1.1s = 28$$

$$\Rightarrow 10f - 11s = 280 \dots (iii)$$

Values of f and s cannot be found out.

**Using both Statements together:**

$$3s - f = 10$$

$$\Rightarrow f = 3s - 10$$

Putting in (iii),

$$10(3s - 10) - 11s = 280$$

$$\Rightarrow 19s = 380$$

$$\Rightarrow s = 20$$

$$f = 3 \times 20 - 10 = 50$$

$$f:s = 5:2$$

40. Let the radii of the 2 cylinders be  $r_1$  cm and  $r_2$  cm respectively and let their heights be  $h_1$  cm and  $h_2$  cm respectively.

**From Statement I:**

$$\pi r_1^2 h_1 : \pi r_2^2 h_2 = 2:3$$

$$\Rightarrow r_1^2 h_1 : r_2^2 h_2 = 2:3 \dots (i)$$

Ratio of radii cannot be calculated.

**From Statement II:**

$$2\pi r_1(r_1 + h_1) : 2\pi r_2(r_2 + h_2) = 2:3$$

$$\Rightarrow r_1(r_1 + h_1) : r_2(r_2 + h_2) = 2:3 \dots (ii)$$

**From both Statements together:**

$$(r_1/r_2)^2 \cdot (h_1/h_2) = 2/3$$

$$\Rightarrow h_1/h_2 = 2r_2^2/3r_1^2$$

$$\text{Let } h_1 = 2kr_2^2 \text{ and } h_2 = 3kr_1^2$$

Using in (ii)

$$(r_1^2 + 2kr_1r_2^2)/(r_2^2 + 3kr_2r_1^2) = 2/3$$

$$\Rightarrow 3r_1^2 + 6kr_1r_2^2 = 2r_2^2 + 6kr_2r_1^2$$

Dividing both sides by  $r_1r_2$ ,

$$3(r_1/r_2) + 6kr_2 = 2(r_2/r_1) + 6kr_1$$

The value of  $r_1/r_2$  cannot be extracted from this equation.

41. Let the speeds of A, B and C be 'a' m/s, 'b' m/s and 'c' m/s respectively.

**From Statement I:**

In the Time A covers 600 m, B covers (600 - 60) or 540 m

$$\therefore 600/a = 540/b$$

$$\Rightarrow 9a = 10b$$

$$\Rightarrow b = 9a/10$$

**From Statement II:**

In the Time B covers 400 m, C covers (400 - 20) or 380 m

$$\therefore 400/b = 380/c$$

$$\Rightarrow 19b = 20c$$

**Using Both Statements Together:**

$$19b = 20c$$

$$\Rightarrow 19(9a/10) = 20c$$

$$\Rightarrow 171a = 200c$$

$$\Rightarrow a = 200c/171$$

Time taken by A to complete 1 km race =  $1000/(200c/171) = 855/c$  seconds

In that much time, C covers  $c \cdot (855/c) = 855$  metres

Amit beats Vinit by (1000 - 855) or 145 metres

42. Average number of bikes sold in year 2016 in all 5 cities together  
 $= (30 + 35 + 45 + 32 + 18)/5 = 160/5 = 32000$   
 Average number of bikes sold in year 2015 in all 5 cities together  
 $= (25 + 30 + 40 + 24 + 16)/5 = 135/5 = 27000$   
 Required difference =  $32000 - 27000 = 5000$

43. Total number of bikes sold in Pune and Delhi in all 3 years together  
 $= (25 + 30 + 27 + 24 + 32 + 27) = 165$

Total number of bikes sold in Bengaluru in all 3 years together  
 $= (40 + 45 + 35) = 120$   
 Required percentage =  $(165/120) \times 100\% = 137.5\%$

44. Total number of bikes sold in all 5 cities together in 2015  
 $= (25 + 30 + 40 + 24 + 16) = 135$  (thousands)  
 Total number of bikes sold in all 5 cities together in year 2017  
 $= (27 + 45 + 35 + 27 + 16) = 160$  (thousands)  
 Required percentage =  $((160 - 135)/160) \times 100\% = ((25/160)) \times 100\% = 15.625\%$  less.
45. Total number of bikes sold in Mumbai and Bengaluru in all years together  
 $= (30 + 35 + 45 + 40 + 45 + 35) = 230$  (thousands)  
 Total number of bikes sold in remaining 3 cities in all 3 years together  
 $= (25 + 30 + 27 + 24 + 32 + 27 + 16 + 18 + 26) = 225$  (thousands)  
 Required ratio =  $230/225 = 46/45$ .
46. Total number bikes sold in Delhi and Hyderabad together in year 2017  
 $= (27 + 26) = 53$  (thousand)  
 Total number bikes sold in Delhi and Hyderabad together in year 2015  
 $= (24 + 16) = 40$  (thousand)  
 Required percentage =  $((53 - 40)/40) \times 100\% = (13/40) \times 100\% = (130/4) \% = 32.5\%$



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47. The pattern of the number series is:  
 $3 \times 1 + 2 = 5$ ,  $5 \times 2 + 3 = 13$ ,  $13 \times 3 + 4 = 43$ ,  
 $43 \times 4 + 5 = 177$ ,  $177 \times 5 + 6 = 891$   
 Wrong term = 176
48.  $125 \times \frac{3}{5} = 75$ ,  $75 \times \frac{3}{5} = 45$ ,  $45 \times \frac{3}{5} = 27$ ,  
 $27 \times \frac{3}{5} = 16.2$ ,  $16.2 \times \frac{3}{5} = 9.72$   
 Wrong number 25
49.  $29 + 1 \times 8 = 37$ ,  $37 - 2 \times 8 = 21$ ,  $21 + 3 \times 8 = 45$ ,  $45 - 4 \times 8 = 13$ ,  $13 + 5 \times 8 = 53$ ,  $53 - 6 \times 8 = 5$   
 Wrong number 43
50. 12  
 $2 \times (12 + 1) = 26$   
 $2 \times (26 + 2) = 56$   
 $2 \times (56 + 3) = 118$   
 $2 \times (118 + 4) = 244$   
 $2 \times (244 + 5) = 498$   
 $2 \times (498 + 6) = 1008$
51. The pattern is  $155 + 4^3 = 219$ ,  $219 + 5^3 = 344$ ,  
 $344 + 6^3 = 560$ ,  $560 + 7^3 = 903$ ,  $903 + 8^3 = 1415$   
 Hence wrong term is 165
52. Ratio of investments =  $\frac{1}{5} : \frac{1}{12} : \frac{1}{10}$   
 $= (\frac{1}{15}) \times 60 : (\frac{1}{12}) \times 60 : (\frac{1}{10}) \times 60$   
 $= 4 : 5 : 6$   
 A's share =  $(\frac{4}{15}) \times 45000 = \text{Rs } 12,000$
53. Let marked price be M and cost price be C  
 As per given,  
 $0.8M = 2C$   
 $M = 2.5C$  .....(1)  
 Also,  
 $M - 400 = 1.5C$  .....(2)  
 From (1) and (2)  
 $C = \text{Rs. } 400$   
 $M = 2.5 \times 400 = \text{Rs. } 1000$   
 Selling price when it sold at 25% discount  
 $= 0.75 \times 1000 = \text{Rs. } 750$   
 So, profit =  $750 - 400 = \text{Rs. } 350$ .
54. Let the capacity of vessel = 8L liters  
 Original amount of liquid A in the mixture  
 $= 8L \times \frac{5}{8} = 5L$  liters  
 Amount of liquid A in 16 liters of the  
 mixture =  $16 \times \frac{5}{8} = 10$  liters  
 Now amount of liquid A remaining in the  
 mixture =  $(5L - 10)$  liters  
 Now according to the question;  $((5L - 10)) / ((8L - 16) + 16) = \frac{3}{8}$   
 $\Rightarrow ((5L - 10)) / 8L = \frac{3}{8}$   
 $\Rightarrow 5L - 10 = 3L$   
 $\Rightarrow 2L = 10$   
 $\Rightarrow L = 5$   
 Total capacity of vessel = 40 liters
55.  $16 \times ? \times 10 = 47^2 + 31$   
 $160 \times ? = 2209 + 31 = 2240$   
 $? = 2240 / 160 = 14$

56.  $? = 40 \times 29 + 67 \times 49 - 71 \times 50$   
 $? = 1160 + 3283 - 3550 = 893$
57.  $? \% \text{ of } 760 = 1810 - 130\% \text{ of } 340$   
 $? \% \text{ of } 760 = 1810 - 130 \times 340 / 100 = 1810 - 442 = 1368$   
 $? = 1368 \times 100 / 760 = 180$
58.  $? = 63 \times (20/7) - \sqrt{169}$   
 $= 9 \times 20 - 13$   
 $= 180 - 13 = 167$
59.  $? = (20/2) - 11 \times 14 + \sqrt[3]{27}$   
 $= 10 - 154 + 3$   
 $= -141$
60. We note that  $22.22\% = \frac{2}{9}$ ,  $85.71\% = \frac{6}{7}$ ,  $44.44\% = \frac{4}{9}$   
 So,  $? = 153 \times (\frac{2}{9}) + 266 \times (\frac{6}{7}) + 99 \times (\frac{4}{9})$   
 $= (9 \times 17) \times (\frac{2}{9}) + (7 \times 38) \times (\frac{6}{7}) + (9 \times 11) \times (\frac{4}{9})$   
 $= (2 \times 17) + (6 \times 38) + (4 \times 11) = 306$
61.  $22^3 = 10648$ ,  $15^3 = 3375$ ,  $12^3 = 1728$   
 $? = \sqrt[3]{10648} - \sqrt[3]{3375} - \sqrt[3]{1728}$   
 $= 22 - 15 - 12 = -5$
62.  $(0.2^1)^{78} \div (0.2^3)^{73} = (0.2^1)^?$   
 $(0.2)^{(1 \times 78 - 3 \times 73)} = (0.2^1)^?$   
 So,  $? = (1 \times 78 - 3 \times 73) / 1 = -141$
63.  $? = 40^2 + 39^2 + 16^2$   
 $= 1600 + 1521 + 256 = 3377$
64.  $(?)^2 = 19^2 - 11 - 5^3$   
 $= 361 - 11 - 125 = 225$   
 So,  $? = 15$
65. Let original speed of person is S km/hr.  
 Let the time taken to cover distance be T hours.  
 Distance = Speed x Time  
 $D = S \times T$  ..... (1)  
 $D = 0.75S \times (T + 1)$  ..... (2)  
 From (1) and (2)  
 $S \times T = 0.75S \times (T + 1)$   
 $T = 0.75T + 0.75$   
 $0.25T = 0.75$   
 $T = 3$  hours.  
 When the distance is constant, then speed is inversely proportional to time  
 Let H hours are required if the speed is increased by 50%  
 $H/3 = (S/(1.5S))$   
 $H = 2$  hours.





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66. Mathilda was placed at the 7<sup>th</sup> position.

POSITION	BOOK
8	
7	MATHILDA
6	
5	
4	
3	
2	
1	

There was only one book between Mathilda and nemesis

POSITION	BOOK
8	
7	MATHILDA
6	
5	NEMESIS
4	
3	
2	
1	

The Prison was at an odd position but not 3<sup>rd</sup>. So, it was at 1<sup>st</sup> position.

POSITION	BOOK
8	
7	MATHILDA
6	
5	NEMESIS
4	
3	
2	
1	PRISON

There were two books between Haunted and Demons, with the former being at a position below the latter.

POSITION	BOOK
8	
7	MATHILDA
6	DEMONS
5	NEMESIS
4	
3	HAUNTED
2	
1	PRISON

The stardust was adjacent to Haunted but not to the prison.

POSITION	BOOK
8	
7	MATHILDA
6	DEMONS
5	NEMESIS
4	STARDUST
3	HAUNTED
2	
1	PRISON

Mathilda was placed at the 7<sup>th</sup> position and was above Fangirl. So finally, we have:

POSITION	BOOK
8	SCARLET
7	MATHILDA
6	DEMONS
5	NEMESIS
4	STARDUST
3	HAUNTED
2	FANGIRL
1	PRISON

Nemesis was placed just above the Stardust.

67. 4 books were placed between Fangirl and Mathilda.

68. Demons was placed at 6<sup>th</sup> position.

69. 4<sup>th</sup>, Stardust is odd from the rest as the rest of them are in adjacent position.

70. Mathilda is odd from the rest as the rest of them are at even position.

71. Vowel is not at any even positions - thus, is at odd numbered positions.

- Two persons sit between U and T.
- R sits immediate right to T.

We get,

Case I:  $\frac{U}{1} \quad \frac{\quad}{2} \quad \frac{\quad}{3} \quad \frac{T}{4} \quad \frac{R}{5} \quad \frac{\quad}{6} \quad \frac{\quad}{7}$

Case II:  $\frac{\quad}{1} \quad \frac{\quad}{2} \quad \frac{U}{3} \quad \frac{\quad}{4} \quad \frac{\quad}{5} \quad \frac{T}{6} \quad \frac{R}{7}$

Case III:  $\frac{\quad}{1} \quad \frac{T}{2} \quad \frac{R}{3} \quad \frac{\quad}{4} \quad \frac{U}{5} \quad \frac{\quad}{6} \quad \frac{\quad}{7}$

Case IV:  $\frac{\quad}{1} \quad \frac{\quad}{2} \quad \frac{\quad}{3} \quad \frac{T}{4} \quad \frac{R}{5} \quad \frac{\quad}{6} \quad \frac{U}{7}$

Now,

- Two persons sit between R and S.
- E is sitting immediate next to neither T nor Q.

Case I:  $\frac{U}{1} \quad \frac{S}{2} \quad \frac{\quad}{3} \quad \frac{T}{4} \quad \frac{R}{5} \quad \frac{\quad}{6} \quad \frac{E}{7}$

Case II:  $\frac{E}{1} \quad \frac{\quad}{2} \quad \frac{U}{3} \quad \frac{S}{4} \quad \frac{\quad}{5} \quad \frac{T}{6} \quad \frac{R}{7}$

Case III:  $\frac{\quad}{1} \quad \frac{T}{2} \quad \frac{R}{3} \quad \frac{\quad}{4} \quad \frac{U}{5} \quad \frac{S}{6} \quad \frac{E}{7}$

Case IV:  $\frac{E}{1} \quad \frac{S}{2} \quad \frac{\quad}{3} \quad \frac{T}{4} \quad \frac{R}{5} \quad \frac{\quad}{6} \quad \frac{U}{7}$

- P doesn't sit at the extreme ends.
- P sits immediate next to neither R nor E.

Also,

- E and Q are not sitting next to each other.

Thus,

Case I, II and III become invalid.

Final arrangement is:

$\frac{E}{1} \quad \frac{S}{2} \quad \frac{P}{3} \quad \frac{T}{4} \quad \frac{R}{5} \quad \frac{Q}{6} \quad \frac{U}{7}$

Q and T are at even positions among the given ones.

72. 5 persons sit between E and U.

73. R's position with respect to Q is immediate left.

74. Except in option (c), in all other options, two persons sit between the given two persons.

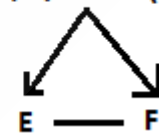
75. E and U sit at the extreme ends.

76. • B's sister A only has one brother J who is married to I.

$B(f) \text{ --- } A(f) \text{ --- } J(m) \text{ === } I(f)$

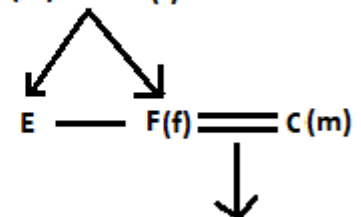
- A is paternal aunt of E & F.

$B(f) \text{ --- } A(f) \text{ --- } J(m) \text{ === } I(f)$



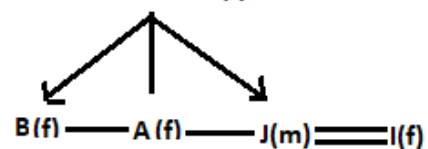
- C is brother-in-law of E.
- Each couple has atleast one child

$B(f) \text{ --- } A(f) \text{ --- } J(m) \text{ === } I(f)$

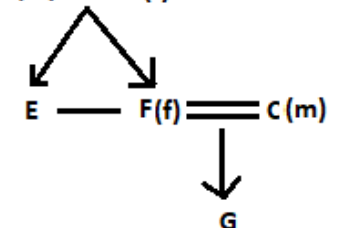


- D husband of H has 3 children.

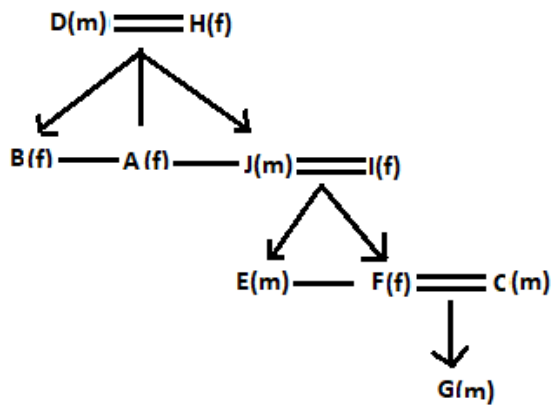
$D(m) \text{ === } H(f)$



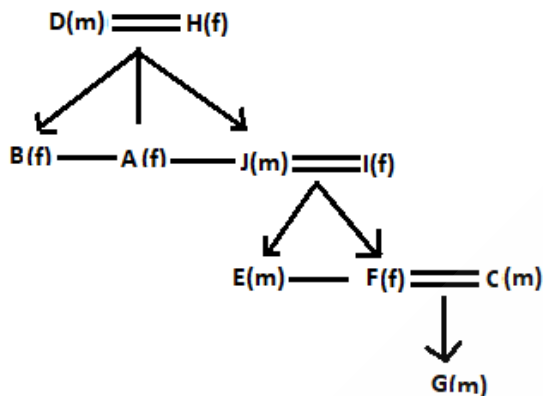
$B(f) \text{ --- } A(f) \text{ --- } J(m) \text{ === } I(f)$



- There are equal number of male & female in the family



**Final Solution:**

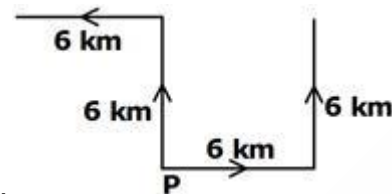


F is female while others are male.

77. D is F's paternal grandfather.

78. J is father of F....D is father of B.....D is father of A.

79. From "RIVER => QNQSZ", we get, "R=>Q"  
From "RIVER => QNQSZ" & "WATER => XUYQZ", we get, "E => Z", "IV => SN" & "WAT => XYU"  
So, "VITA => SNXU" or "VITA => SNUY" or "VITA => SNXY"



80. Distance between them =  $6+6 = 12$  km

81. When letters are ranked as per their alphabetical number;

Option 1: -

$$B \times 2 = 2 \times 2 = 4 = D$$

$$B \times 3 = 2 \times 3 = 6 = F$$

Option 3: -

$$C \times 2 = 3 \times 2 = 6 = F$$

$$C \times 3 = 3 \times 3 = 9 = I$$

Option 4: -

$$A \times 2 = 1 \times 2 = 2 = B$$

$$A \times 3 = 1 \times 3 = 3 = C$$

Option 5: -

$$D \times 2 = 4 \times 2 = 8 = H$$

$$D \times 3 = 4 \times 3 = 12 = L$$

Option 2: -

$$E \times 2 = 5 \times 2 = 10 = J$$

$$E \times 3 = 5 \times 3 = 15 = O$$

So, option 2 is the odd one out.

82. After interchanging the digits,

734 652 487 853 427

Hence, the highest no. is 853 which represent 583.

83. The digit-sums are,

$$3+7+4=14, 5+6+2=13, 8+4+7=19,$$

$$5+8+3=16, 2+4+7=13$$

Hence, the second lowest digit-sum is 14 which represent 374.

84. If the first digit is increased by 1 & the third digit is decreased by 2, then numbers will be:

472 660 945 681 345

Clearly, 345 is in ascending order which represents 247.

85. Middle digit of lowest number (247) - middle digit of second highest number (583) =  $4 - 8 = -4$

86. After the rearrangement,

743 652 874 853 742

Hence, 652 is the lowest number after the rearrangement which represents 562.

87.

V	U	L	G	A	R	I	Z	E	D
22	21	12	7	1	18	9	26	5	4

The pairs are: VU, AE, ED

Hence 3 such pairs.

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88. After arranging vowels and consonants;  
KEYBOARD = AEOBDKRY  
Number of letters between A and R = 5

89. The next element will be "L"

The given series is:

T R P N L J H F D / T P N L J H F / T P L J H / T P L

In decreasing alphabetical order, the series is given such that  $\rightarrow T - 2 = R - 2 = P$  and so on.

In each step, next element is removed and at first, element second from the left is removed, then in next step element third from the left is removed.

i.e., R is removed, then, N is removed and so on.

Thus, for the next step - H is removed, and J is removed.

So, next element is **L**.

90. Here,

If  $N = L$ , then,

$E = N = C = I = L$

Thus,  $I = E$

For  $I < E$ ,

$E = N > C \geq I = L$

Then,  $N = L$  is not true.

Thus, either I or II follow.

91. We have,

$J < K = L > M$

$R < S < J$

$L > F > S$

We get,

$M < L > F > S$

Thus, relation between S and M cannot be determined and, thus, conclusion I doesn't follow.

Also,

$R < S < F$

Thus, II doesn't follow.

92. We get,

$P \geq G > H > S$

Thus,  $P > S$

Hence, I follow.

$G > H > S \leq R = T$

Thus, relation between G and T cannot be determined and, thus, II doesn't follow.

93.  $S > T > A = Y$

$F \geq L \geq Y$

$F \geq A \geq N$

Since,  $A = Y$

So, we get,

$F \geq L \geq Y = A \geq N$

Thus,  $L \geq N$ , hence, I follow.

$S > T > A \geq N$

Hence,  $S > N$  and, thus, II doesn't follow.

94. Based on the information given, arrangement of the seven persons in ascending order of the salary will be  $C < D < K < L < A < N < B$

Person s	C	D	K	L	A	N	B
Salary	1800 0		2300 0			3500 0	

A and L will earn more than Rs 23000 and less than Rs 35000

Option 3

95. D may earn Rs 21000

Option 2

96. P is neither born on even date nor born in the month having even number of days.

Here,

January = 31 days

April = 30 days

June = 30 days

November = 30 days

So, P is born on 23<sup>rd</sup> of January.

Only 3 persons are between P and S.

S and W are born in the same month.

	12	23
January		P
April		
June	W	S
November		

2 persons are born between W and U.

	12	23
January		P
April		
June	W	S
November		U

Q is born in the same month as that of R and is the same date as that of V.

So, Q must be born on 12<sup>th</sup> April.

	12	23
January		P
April	Q	R
June	W	S
November		U

T is neither born on odd date nor born in the month having odd number of days.

So, T is born on 12<sup>th</sup> of November.



Final Solution:

	12	23
January	V	P
April	Q	R
June	W	S
November	T	U

T is born on 12<sup>th</sup> of November.

97. V is born on 12<sup>th</sup> of January.

98. V and P are born in the same month.

99. U and T are born in the same month.

100. Only V is elder than P.



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