

IBPS PO Preliminary Exam Model Paper -1

Instructions

- There are three sections in the exam. Namely, Namely English Language, Reasoning ability and Quantitative Aptitude
- This test contains 100 questions
- Each question carries 1 mark
- There is negative marking of 0.25 for every wrong answer

Exam pattern

| Sr No. | Test Name | Qns. | Marks | Duration |
|--------|-----------------------------|------|-------|----------|
| 1 | Reasoning Ability Paper | 35 | 35 | 01 hour |
| 2 | Quantitative Aptitude Paper | 35 | 35 | |
| 3 | English Language Paper | 30 | 30 | |
| | Total | 100 | 100 | |

English Language

Directions (Q.1-15) Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to help you to locate them while answering some of the questions.

Capitalism is a great slave, but a pathetic master. This truth unfortunately gets lost in our chase for that **elusive** dream ... especially in the West, the land that has been marketed as the land of the dreams – the great Western dream. It's the dream of being independent masters of our lives of making big bucks and being happy – even if that happiness is being bought by money which all of them chase out there. No doubt, the West, on its part, has been fairly successful in creating material comforts aplenty. It has improved the living standard of its average citizen. However it has been achieved as a result of more than 200 years of unbridled growth and exploitation. And that is what has made the rest of the World mindlessly **chase** Westernism, not necessarily happiness or an ideal form of society. All because the shop window looks very impressive and it has been marketed very well.

But a deep look inside the shop tells a different tale. A different World lies behind, a World that is not quite visible to the starry eyed millions – for whom the Western way of life seems to be the ultimate dream.

Thus, we have Indians dreaming to become or to get married to an NRI and Indian middle class fathers dreaming of their sons reaching the Bay area and landing tech jobs, unmindful of the second class life they end up leading in the West. What goes unseen and almost unheard is that the West also happens to be the land that is right amongst the top in terms of the number of divorces per thousand, the number of single parents families per thousand, the number of old people in old age homes, the number of suicides, homicides and of course, the number of college/school shootouts.

And why not! After all, such societies are constantly driven towards higher profits and materialism. Expectedly, this materialism comes at a cost that the World is paying today. This is the reason why we have millions dying of curable diseases in Africa and other underdeveloped countries, while the rich grow richer. Their growth will be reduced, if they were to start thinking of the poor. So what do they do to justify their greed for more? They most **shrewdly** propagate and market a

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ridiculously primitive law of the jungle for our 21st century civilization, the ‘Law of Survival of the Fittest’!

The interesting thing about material things is that they only give an illusion of happiness, however such happiness is always **momentary** in nature. Ergo, at this juncture, you feel you are the happiest person in the World, after buying your new car or flat screen TV, and just a few days later, these are the very possessions that cease to make you happy. While you chase the bigger car and spend that extra bit of the wealth, you intercept someone’s share of the daily bread and also sacrifice those who have the maximum power to make you happy – family, emotions and love. Prolonged abstinence in feeling emotions finally destroys bliss, and you don’t even realize when you’ve become a dry-eyed cripple And then you land up in a sermon workshop to find out the real meaning of life – or whatever these workshops are capable of the explaining. The truth is that such workshops are also driven by merchants who cash in on the **dejected** state of the people, a state created by their own fictional dreams. But by then its really too late.

By then, you have made profits out of arms, and engineered wars to keep that industry alive. You’ve sold guns across counters at supermarkets and made more profits. You’ve lobbied that guns should be made accessible to the common man, and all for the sake of profits. This makes you realize one day that they are your own children who are in the line of fire against the school goer who opens fire at his schoolmates.

This is the society that finally creates an emotionless monster, who gets satisfaction in killing innocent adults and children alike for no cause, no reason and for none, but himself. It is the utter destruction of spiritualism and the total focus on endless self-gratification. Where so many single parent families and divorces exist, it is impossible to bring up children or influence the killers, any better.

1. Who does the author hold responsible for the shooting spree in schools and colleges?
 - A. Lack of love and emotion in the society in general.
 - B. Increased focus on self-gratification even when it comes at the cost of innocent lives.
 - C. Deteriorating social structure leading to break up of families resulting in lack of moral development in children.
 - a) Only A
 - b) Only C
 - c) Only B and C
 - d) All of these
 - e) None of these
2. Why does the author refer to the law of survival of the fittest as ridiculous?
 - a) This law is primitive and does not hold good for developed nations
 - b) The law is often used to justify the accumulation of wealth by a selected few
 - c) People from developing countries use it to rationalize their immigration to the Western countries
 - d) It does not lead to any material profits and material wealth
 - e) None of these
3. Which of the following is a reason for poverty and hunger in underdeveloped countries?
 - A. Mindlessly chasing the Western way of living.
 - B. They have fallen prey to the idea of happiness through material comforts rather than love and emotional bond.
 - C. They do not have marketing techniques as good as the Western countries.
 - a) Only B
 - b) Only C
 - c) Only A
 - d) Only B and C
 - e) Not mentioned in the passage
4. Why do the ‘starry-eyed millions’ harbor a wish to become NRI?
 - A. They are driven towards higher profits and materialism.
 - B. They appreciate the Western way of life as it appears to them.
 - C. They have become emotionless and lost any attachment to the motherland.
 - a) Only A
 - b) Only B
 - c) Only A and B
 - d) Only C
 - e) All A, B and C

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5. Why does the author disregard the Western way of living even though an average citizen in the West enjoys better living standards?
- Many Indians want to ape their lifestyle, leading to a cultural dilution of their own traditions
 - The West has failed to market their lifestyle in an appropriate way
 - According to him, the law of 'survival of the fittest' is now obsolete
 - It only looks forward to material comfort rather than happiness within
 - None of these
6. What does the author mean by 'intercepting someone's share of daily bread'?
- Hindering the process of marketing in underdeveloped countries by the developed countries
 - Denying material comfort to the Western World
 - Affecting the social life of those working towards material comforts only
 - Excess of wealth in Western World while people in poorer nations struggle for survival
 - None of these
7. What does the author mean by 'shop window of the West' when he suggests to look inside the shop?
- The sprawling supermarkets have been making profits out of inhuman activities.
 - To look closely at the existing societal structure rather than superficially appreciating the delusive dazzle.
 - To study their marketing techniques closely.
- Only A
 - Only B
 - Only A and B
 - Only B and C
 - Only C
8. The author's main objective in writing the passage is
- To explain that consumerist societies have their own drawbacks, which are overlooked by those who are blinded by its material glare
 - To explain how too many material comforts have improved the living standard of common man in the West
 - That young children should not be given access to guns and other ammunitions
 - All NRIs are leading unmindful, second-class lives abroad
 - None of these
9. Which of the following is not true according to the passage?
- Over-indulgence in accumulating material wealth has led to many problems on the social and emotional fronts
 - people should visit the sermons more often since this is the only way to achieve peace and happiness
 - For the sake of making profits, people have taken decisions which have proved to be harmful to the society
 - There are plenty of material comforts in the Western countries
 - All are true

Directions (Q. 10-12) Choose the word which is most similar in meaning to the word printed in bold as used in the passage.

10. Shrewdly
- Roughly
 - Rightly
 - Rudely
 - Courteously
 - Astutely
11. Chase
- Follow
 - Capture
 - Run
 - Catch
 - Conquer

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12. Elusive

- a) Terrifying
- d) Haunting

- b) Unusual
- e) Displeasing

c) Unachievable

Directions (Q. 13-15) Choose the word/phrase which is most opposite in meaning to the word printed in bold as used in the passage.

13. Dejected

- a) Apologetic
- d) Elated

- b) Anxious
- e) Enlightened

c) Accepted

14. Unbridled

- a) Enthusiastic
- d) Considerate

- b) Controlled
- e) Approved

c) Rebellious

15. Momentary

- a) Sporadic
- d) Homogenous

- b) Futuristic
- e) Perpetual

c) Brief

Directions (Q. 16-25) Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The number of that part will be the answer. If there is no error, mark (5) as the answer. (Ignore errors of punctuation, if any)

- 16. In emerging economies (1) / the private credit market (2) / remains highly segmented and thus (3) / weaken power of monetary policy. (4) No error (5)
- 17. The recent election campaign (1) / has been one of (2) / the most noisiest campaigns (3) / in the last decade. (4) No error (5)
- 18. Wholesome strategic planning (1) / was the focus as (2) / the firm manage through a difficult period (3) / a couple of years ago. (4) No error (5)
- 19. In spite of the best governmental efforts, (1) / emission of green house gases (2) / and noxious chemicals (3) / remain a cause of worry. (4) No error (5)
- 20. The rate of metabolism of (1) / a body is comparatively lowest when (2) / it is at rest and is (3) / thus optimum for examination. (4) No error (5)
- 21. The opposition leader tried (1) / to bolster his position (2) / with the voters by pressing (3) / corruption charges against rivals. (4) No error (5)
- 22. The recently imposed dress code (1) / in the university has enraged (2) / the students who will be going (3) / on strike since tomorrow. (4) No error (5)
- 23. Ever since he took over (1) / as the Chief Minister of the State (2) / rate for unemployment (3) / has drastically increased. (4) No error (5)
- 24. Although the brilliant writer (1) / an underlying (2) / pessimism prevails in (3) / all her novels. (4) No error (5)
- 25. Changed social setting (1) / demands the schools to teach (2) / moral and social values (3) / among with the academic skills. (4) No error (5)

Directions (Q. 26-30) Which of the phrases (1), (2), (3) and (4) given below each statement should replace the phrase printed in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and 'No correction is required', mark (5) as the answer.

- 26. The grim job market has taken its toll on students, **many of those** had hoped for a much better future.
 - a) much of whom
 - b) many of whom
 - c) several of those
 - d) many of which

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- e) No correction required
27. The relationship we have with **our clients are** the cornerstone of our future.
- our client are
 - each clients is
 - our clients is
 - all clients are
 - No correction required
28. Many developed countries **have been attempting** to buy agricultural land in other countries to meet their own demand.
- has been attempting
 - have being attempting
 - are being attempting
 - have been attempted
 - No correction required
29. A nuclear testing fills the air with radioactive dust **and left the** area uninhabitable.
- and leaves the
 - also leaves the
 - and leaving the
 - and making the
 - No correction required
30. Modern ideas of governance **started back to** the time when people began to question kings.
- started when
 - set back to
 - start back to
 - date back to
 - No correction required

Reasoning Ability

31. If it is possible to make only one meaningful word with 3rd, 7th, 8th and 10th letters of the word 'COMPATIBILITY', which of the following would be the last letter of that word? If no such word can be made, give 'X' as your answer and if more than one such word can be formed, give your answer as Y.
- | | | |
|------|------|------|
| a) I | b) B | c) L |
| d) X | e) Y | |
32. If in a certain code language 'SIMILAR' is written as 'IZORNRH', then how will 'NATURAL' be written in that language?
- | | | |
|------------|------------------|------------|
| a) OZIFGZM | b) OZIFGMZ | c) OZIFZMG |
| d) OZIFMZG | e) None of these | |
33. Sameer remembers that his brother's birthday is after fifteenth but before 18th of February whereas his sister Kanika remembers that her brother's birthday is after 16th but before 19th of February. On which day in February is Sameer's brother's birthday?
- | | | |
|--------------------------|--------------------------|--------------------------|
| a) 15 th Feb. | b) 18 th Feb. | c) 17 th Feb. |
| d) Can't be determined | e) None of these | |

Directions (Q. 34-38) In each of the following questions two rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the

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questions below the rows of numbers are to be answered. The operations of numbers progress from left to right.

Rules:

- (i) If a two digit odd number is followed by a two digit odd number, they are to be added.
- (ii) If a two digit even number is followed by a two digit odd number which is a perfect square, the even number is to be subtracted from the odd number.
- (iii) If a three digit number is followed by a two digit number, the first number is to be divided by the second number.
- (iv) If a prime number is followed by an even number, the two are to be added.
- (v) If an even number is followed by another even number, the two are to be multiplied.

34. $\begin{array}{ccc} 23 & 15 & 12 \\ X & 24 & 49 \end{array}$

If X is the resultant of the first row, what is the resultant of the second row?

- a) 24
- b) 25
- c) 28
- d) 22
- e) None of these

35. $\begin{array}{ccc} 37 & 12 & 21 \\ 38 & 81 & 14 \end{array}$

What is the difference between the resultants of the two rows?

- a) 23
- b) 32
- c) 13
- d) 18
- e) None of these

36. $\begin{array}{ccc} 16 & 8 & 32 \\ 132 & 11 & x^2 \end{array}$

If X is the resultant of the first row, what is the resultant of the second row?

- a) 192
- b) 128
- c) 132
- d) 144
- e) None of these

37. $\begin{array}{ccc} 345 & 23 & X \\ 45 & 17 & 81 \end{array}$

If X is the resultant of the second row, what is the resultant of the first row?

- a) 285
- b) 33
- c) 135
- d) 34
- e) None of these

38. $\begin{array}{ccc} 12 & 28 & 84 \\ 37 & 22 & 18 \end{array}$

What is the sum of the resultants of the two rows?

- a) 77
- b) 87
- c) 84
- d) 72
- e) None of these

Directions (Q. 39-44) Read the following information carefully to answer the questions given below it.

- I. 'A + B' means that 'A is the father of B'.
- II. 'A - B' means that 'A is the wife of B'.
- III. 'A × B' means that 'A is the brother of B'.
- IV. 'A ÷ B' means that 'A is the daughter of B'.

39. If it is given 'P ÷ R + S + Q' then which of the following is true?

- a) P is the daughter of Q
- b) Q is the aunt of p
- c) P is the aunt of Q
- d) P is the mother of Q

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- e) None of these
40. If it is given ' $P - R + Q$ ' then which of the following statements is true?
a) P is the mother of Q
b) Q is the daughter of P
c) P is the aunt of Q
d) P is the sister of Q
e) None of these
41. If it is given ' $P \times R \div Q$ ' then which of the following is true?
a) P is the uncle of Q
b) P is the father of Q
c) P is the brother of Q
d) P is the son of Q
e) None of these
42. If it is given ' $P \times R - Q$ ' then which of the following is true?
a) P is the brother-in-law of Q
b) P is the brother of Q
c) P is the uncle of Q
d) P is the father of Q
e) None of these
43. If ' $P + R \div Q$ ' then which of the following is true?
a) P is the husband of Q
b) P is the brother of Q
c) P is the son of Q
d) P is the father of Q
e) None of these
44. If ' $P - R \times Q$ ' then which of the following is true?
a) P is the sister of Q
b) Q is the son of P
c) Q is the husband of P
d) P is the sister in law of Q
e) None of these
45. A clock becomes 12 s fast in every 3 h. If it is made correct at 3 o'clock in the afternoon of Sunday, then what time will it show at 10 o'clock Tuesday morning?
a) 2 min 52 s past 10
b) 2 min 54 s past 10
c) 2 min 50 s past 10
d) 2 min 48 s past 20
e) None of these
46. 2 days before yesterday was Friday, then what day of the week will be day after tomorrow?
a) Monday
b) Sunday
c) Saturday
d) Wednesday
e) None of these
47. Shreya started from point P and walked 2 m towards West. She, then took a right turn and walked 3 m before taking a left turn and walking 5 m. She finally took a left turn, walked 3 m and stopped at a point Q. How far is point Q from point P?
a) 2 m
b) 6 m
c) 7 m
d) 8 m
e) 12 m

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Directions (Q. 48-51) Read the following information carefully to answer the given questions.

Eight friends P, Q, R, S, T, V, W and Y are sitting around a square table. Out of eight, four persons are sitting at the corners of the table and the other four are sitting at the mid points of each side of the table. Persons at the corners are facing the centre while the persons at the mid points of side are facing outside. S is 3rd to the right of P.

P is facing the centre. Y is not sitting beside P or S. T is 3rd to the right of R. R is not sitting at the mid-point of any side of the table. R is also not beside Y. There is only one person between P and V. Q is not sitting beside V.

48. If all the persons are made to sit in alphabetical order in clockwise direction starting from P, then the position of how many persons remains the same (excluding P)?
a) None
b) One
c) Two
d) Three
e) Four
49. Which of the following is true regarding Y?
a) T is not sitting beside Y
b) Y is sitting at the mid-point of a side
c) R is 2nd to the left of Y
d) P and V are beside Y
e) None of these
50. Who is 4th to the left of V?
a) Y
b) R
c) T
d) Q
e) W
51. What is the position of Q in respect of R?
a) Immediate left
b) 2nd to the left
c) 3rd to the left
d) 3rd to the right
e) Immediate right
52. Four out of the following five are somehow same and therefore they form a group. Which one of the following does not come into this group?
a) Y
b) W
c) V
d) R
e) P
53. Who is 3rd to the right of W?
a) R
b) S
c) Q
d) Y
e) Can't be determined
54. How many people are there between T and Q?
a) None
b) 1
c) 2
d) 3
e) 4

Directions (Q. 55-60) For recruiting management trainees in an organization, the following criteria as have been laid down.

The candidate must

- (i) Be a first class graduate in Commerce with at least 65% marks.
- (ii) Have secured at least 70% marks in SSC.
- (iii) Be not more than 26 years and not less than 21 years of age as on 01st August 2007.
- (iv) Have secured at least 60% marks in selection test.
- (v) Have secured at least 50% marks in selection interview.

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However, if a candidate fulfills all the above mentioned criteria except

- (a) at (i) above but is an Economics graduate with atleast 70% marks, the case may be referred to the GM of the organization.
- (b) at (v) above but has secured atleast 40% marks in selection interview and atleast 70% marks in selection test, the case may be referred to the President of the organization.

In each of the questions below, information of one candidate is given. You have to take one of the following five decision bases on the information provided and the criteria and conditions given above. You are not to assume anything other than the information provided in each question. All these cases are given to you as on 01st August 2007. You have to indicate your decision by marking answers to each questions as follows.

Give answer

- (a) if the candidate is to be selected
- (b) if the candidate is not to be selected
- (c) if the case is to be referred to GM
- (d) if the case is to be referred to President
- (e) if the data is inadequate to decide the course of action

- 55. Abhishek has passed degree examination in Commerce with Economics as one of the subjects in first class with 68% marks in 2006 at the age of 22 years. His marks in SSC was 73%. He has cleared the selection test with 64% marks and selection interview with 62% marks.
- 56. Sharad Bhatia has passed B.Com. in first class with 69% marks and SSC with 78% marks. He joined a private organization as an officer in June 2005 immediately after completing 23 years of age. He has scored 65% marks in selection test and 48% marks in selection interview.
- 57. Priyanka Ghate has passed graduation in arts with specialization in Economics in first class with 75% marks. Her date of birth is 08th July, 1985. She had scored 89% marks in SSC, 63% in selection interview and 61% marks in selection test.
- 58. Rakesh has passed SSC with 85% marks and graduation in arts with specialization in Economics with 72% marks. His date of birth is 12th June, 1985. He has scored 65% marks in selection test as well as in interview.
- 59. Sarita Dere is a post graduate in Commerce passed in first class with 62% marks. Her score in SSC was 75%. She completed 23 years of age on 23rd December, 2006. She has scored 64% marks in selection test and 55% marks in selection interview.
- 60. Ashish Gharpure is a Commerce graduate passed out in June 2006, at the age of 21 years with 72% marks and first class. Presently he is pursuing his post-graduation in Economics. He had scored 82% marks in SSC. He has cleared the selection test with 67% marks and selection interview with 56% marks.

Directions (Q. ____) Study the following information carefully and answer the questions given below:

A, B, C, D, E, F and G are seven students of a school. Each of them studies in a different standard from standard II to standard VIII but not necessarily in the same order. Each of them likes a different subject, viz. English, Hindi, Civics, Biology, Chemistry, GK and Computer but not necessarily in the same order. B studies in standard VII but he does not like Biology or Computer. C likes English and does not study in standard V or standard III. E studies in standard VIII and likes Hindi. The one who likes GK studies in standard II. D studies in standard IV. G likes Civics. A does not study in standard II. The one who likes Computer studies in standard V.

- 61. D likes which of the following subjects?
 - a) GK
 - b) Civics
 - c) Computer
 - d) Can't be determined
 - e) None of these
- 62. Which of the following combinations is/are true?

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- a) C-VI-English
d) All are true
- b) D-V-Biology
e) None of these
- c) A-IV-Chemistry
63. G studies in which of the following standards?
a) IV
d) VI
- b) II
e) None of these
- c) III
64. Which of the following subjects does A like?
a) Biology
d) Chemistry
- b) GK
e) None of these
- c) Computer
65. Which of the following statements is/are false?
a) F studies in standard II
b) A likes Computer
c) The one who studies in standard VIII likes English
d) All are false
e) None of these

Quantitative Aptitude

66. The average of four consecutive odd numbers is 36. What is the smallest of these numbers?
a) 31
d) 47
- b) 35
e) None of these
- c) 43
67. What would be the compound interest accrued on an amount of Rs.7850 at the rate of 14% per annum in two years?
a) Rs.2351.86
d) Rs.2290.23
- b) Rs.2880.37
e) None of these
- c) Rs.2518.22
68. Mithilesh started a business by investing Rs.48000. After 7 months, Vidya joined him with a capital of Rs.56000. At the end of the year of the total profit was Rs.5885. What is the Vidya's share of the profit?
a) Rs.3625
d) Rs.3960
- b) Rs.1650
e) None of these
- c) Rs.1925
69. Three-fourth of one number is equal to five-sixth of another number. What is the respective ratio of the first number to the second number?
a) 12 : 11
d) Can't be determined
- b) 11 : 9
e) None of these
- c) 9 : 10
70. Natasha decided to spend 45% of her salary on shopping. On completion of her shopping, she realized that she had spent only Rs.11475, which was 60% of what she had decided to spend. How much is Natasha's salary?
a) Rs.29600
d) Can't be determined
- b) Rs.38800
e) None of these
- c) Rs.42500
71. In how many different way can the letters of the word 'RUDE' be arranged?
a) 12
d) 24
- b) 48
e) None of these
- c) 16

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72. The ages of Bhakti and Neil are in the ratio of 8 : 7 respectively. After 6 years, the ratio of their ages will be 19 : 17. What is the difference in their ages?
a) 4 years b) 8 years c) 10 years
d) 12 years e) None of these
73. If the numerator of a fraction is increased by 500% and the denominator is increased by 300%. The resultant fraction is $2\frac{4}{7}$. What was the original fraction?
a) $\frac{4}{7}$ b) $\frac{12}{7}$ c) $\frac{15}{4}$
d) $\frac{6}{5}$ e) None of these

Directions (Q. 74-78) In each of these questions two equations numbered I and II are given. You have to solve both the equations and

Give answer

- a) if $x < y$
- b) if $x \geq y$
- c) if $x > y$
- d) if $x = y$
- e) if $x = y$ or the relationship cannot be established

74. I. $x^2 - 10x + 24 = 0$
II. $y^2 - 14y + 48 = 0$

75. I. $2x^2 - 13x + 20 = 0$
II. $2y^2 - 7y + 6 = 0$

76. I. $x^2 - 5x + 6 = 0$
II. $y^2 - 9y + 20 = 0$

77. I. $4x^2 - 20x + 21 = 0$
II. $9y^2 - 27y + 20 = 0$

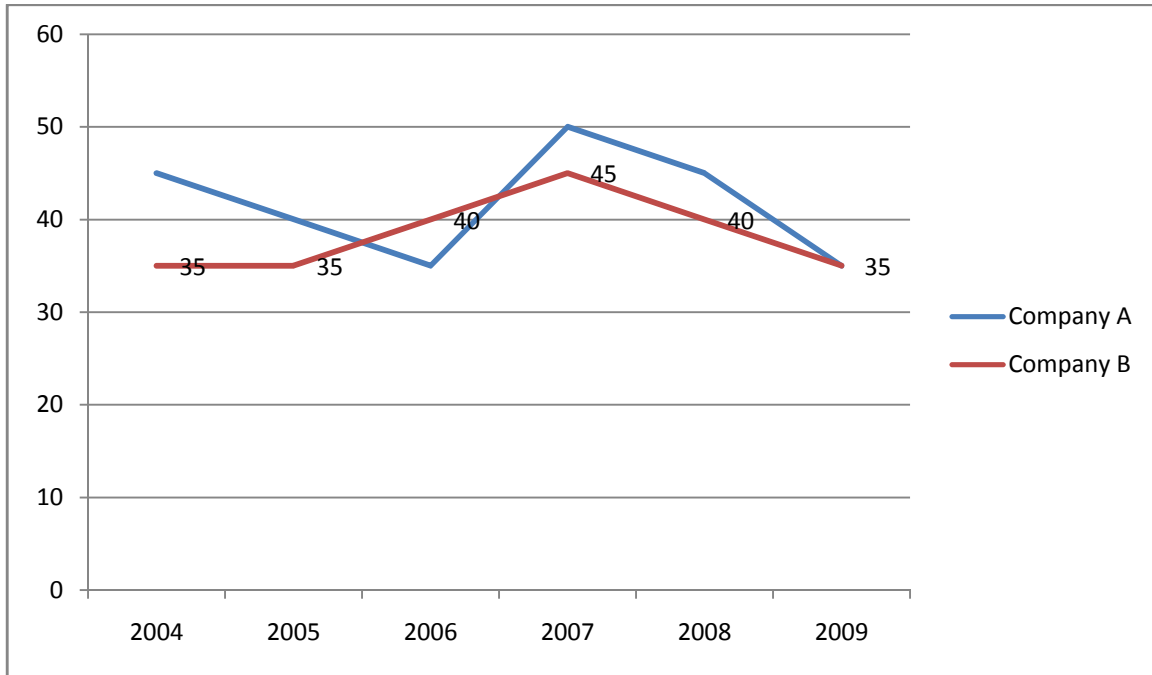
78. I. $x^2 - 20x + 99 = 0$
II. $y^2 - 17y + 72 = 0$

Directions (Q. 79-83) Study the following graph carefully to answer the questions.

Percent profit earned by two companies over the years

$$\text{Percent profit} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

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79. If the income of Company A in the year 2007 was Rs.6.3 Lakh, what was its expenditure in that year?
 a) Rs.420000 b) Rs.325000 c) Rs.516500
 d) Rs.250000 e) None of these
80. If the amount of profit made by Company A in the year 2009 was Rs.31.85 Lakh, what was its expenditure in that year?
 a) Rs.107 Lakh b) Rs.45 Lakh c) Rs.91 Lakh
 d) Can't be determined e) None of these
81. What is the approximate average percent profit of Company A over all the years together?
 a) 37 b) 33 c) 39
 d) 48 e) 42
82. If in the year 2004, incomes of both Companies A and B were the same, what would be the respective ratio of their expenditures?
 a) 31 : 33 b) 27 : 29 c) 16 : 23
 d) Can't be determined e) None of these
83. What is the average amount of profit earned by Company B over the years?
 a) 41.69 b) 38.33 c) 26.45
 d) Can't be determined e) None of these

Directions (Q. 84-88) Study the following table carefully to answer the questions that follow.

Number of students in six classes of a school over the years

| Year | Class | | | | | |
|------|-------|-----|-----|------|-----|-----|
| | V | VI | VII | VIII | IX | X |
| 2004 | 122 | 112 | 100 | 125 | 124 | 116 |
| 2005 | 138 | 124 | 116 | 126 | 123 | 120 |
| 2006 | 142 | 136 | 120 | 128 | 131 | 121 |
| 2007 | 144 | 138 | 128 | 133 | 129 | 121 |
| 2008 | 145 | 143 | 130 | 139 | 137 | 124 |

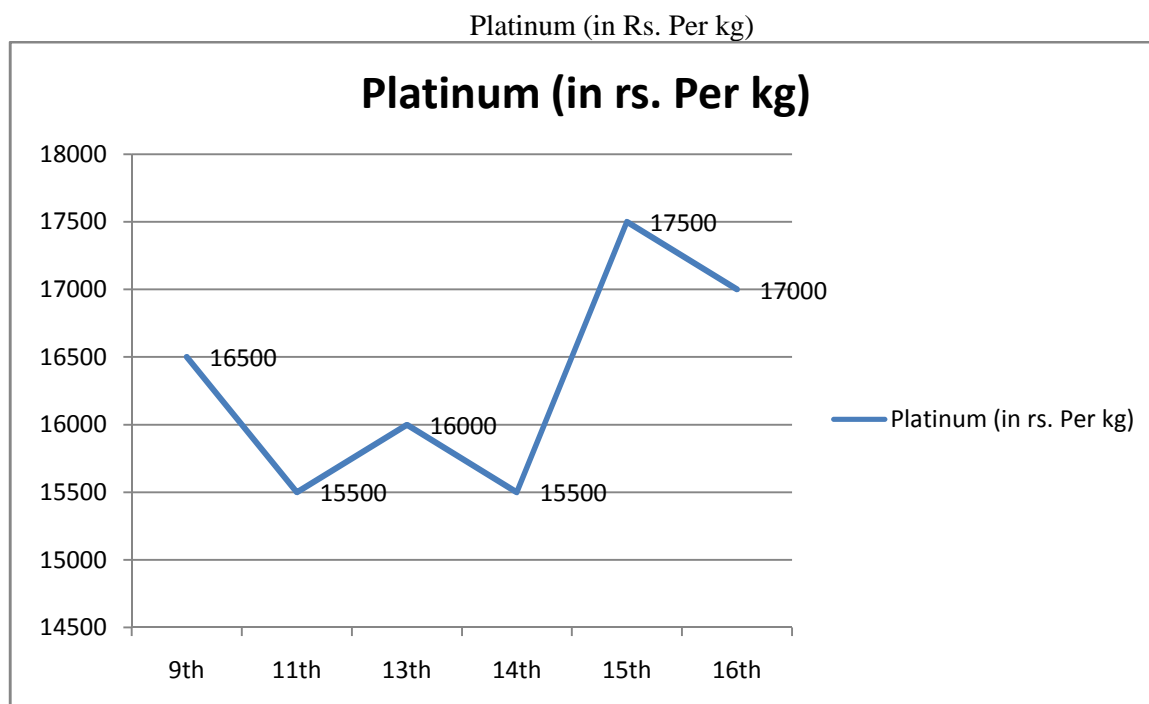
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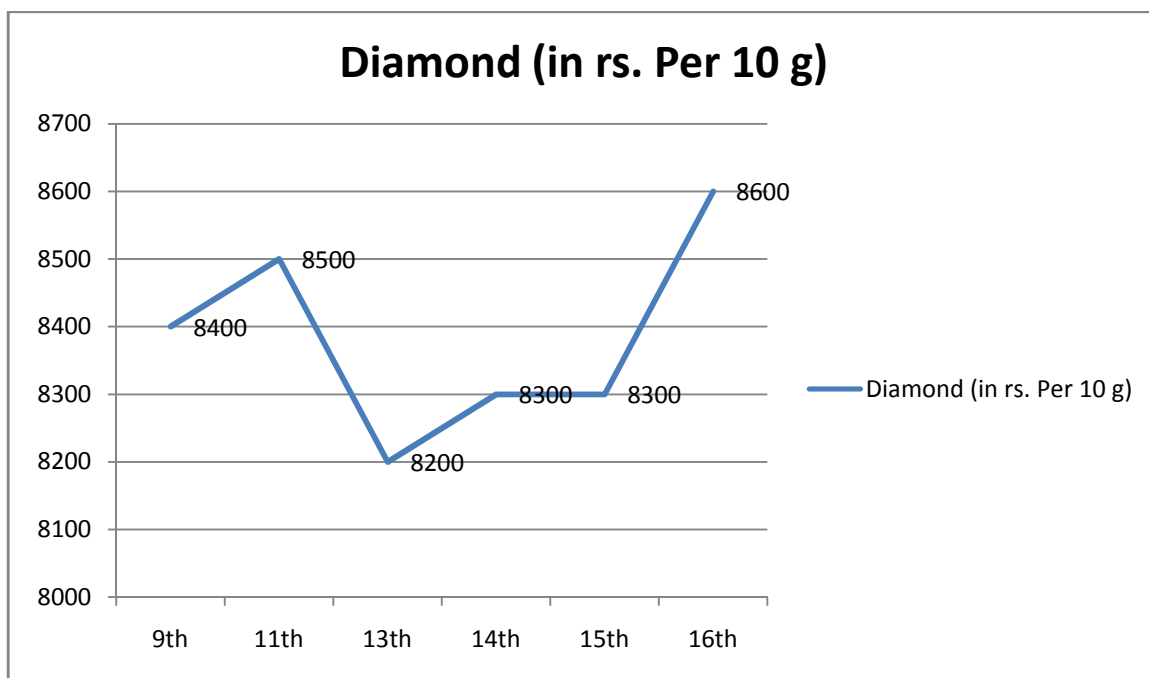
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|------|-----|-----|-----|-----|-----|-----|
| 2009 | 145 | 144 | 134 | 146 | 140 | 128 |
|------|-----|-----|-----|-----|-----|-----|

84. What is the total number of students from all the classes together in the year 2005?
a) 747 b) 728 c) 764
d) 735 e) None of these
85. What is the average number of students in all the classes together in the year 2004? (Rounded off to the nearest integer)
a) 123 b) 117 c) 144
d) 109 e) 138
86. What is the percent increase in the number of students in class VII in the year 2007 from the previous year? (Rounded off to two digit after the decimal)
a) 10.15 b) 5.48 c) 6.67
d) 8.93 e) None of these
87. Number of students in class X in the year 2008 forms approximately what percent of the total number of students in that class from all the years together?
a) 9 b) 31 c) 11
d) 26 e) 17
88. What is the respective ratio of total number of students in class V in the year 2006 and 2009 together to the total number of students in class VI from the same year?
a) 39 : 37 b) 40 : 41 c) 37 : 39
d) 41 : 40 e) None of these

Directions (Q. 89-93) Study the graph and answer the questions that follow.

The following graphs show the price of Platinum (in Rs. Per kg) and Diamond (in Rs. Per 10 g) on 9th, 11th, 13th, 14th, 15th and 16th September 2014 in Mumbai

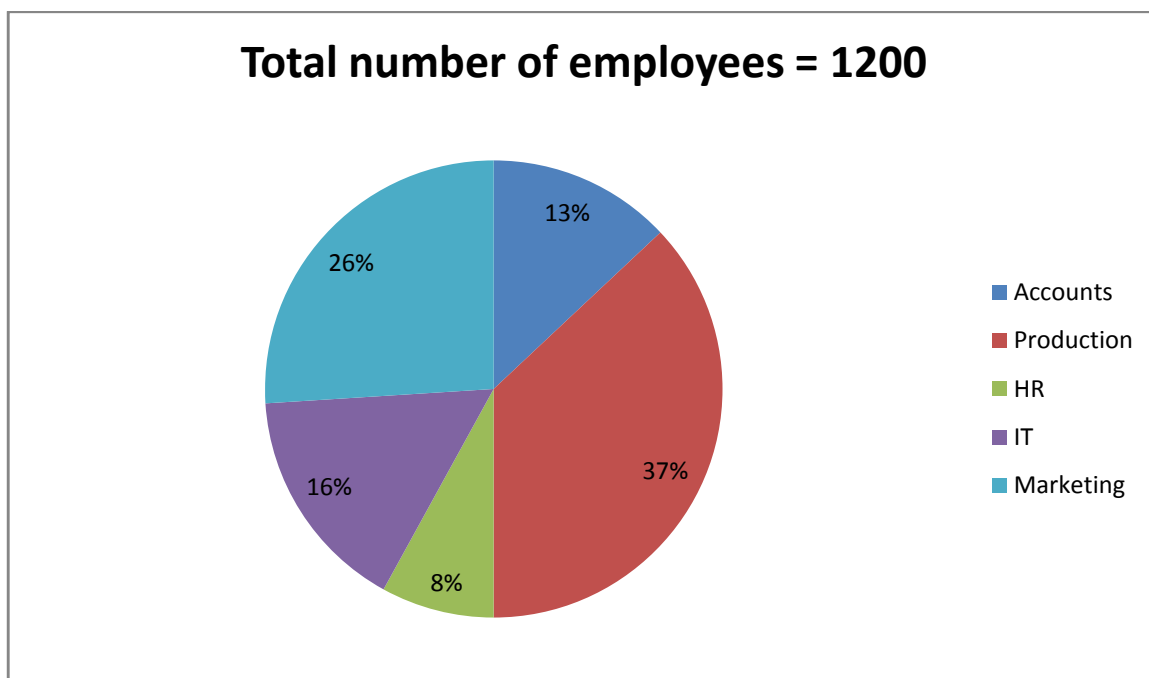




89. By what percent is the rate of Platinum less than the rate of Diamond on 14th September 2014?
- a) 97.33% b) 98.13% c) 97.95%
- d) 96.38% e) 95.92%
90. The average price of Diamond is approximately what percent of the price of Platinum on 11th September 2014?
- a) 7836.31% b) 7632.25% c) 7765.8%
- d) 7289.85% e) None of these
91. What is the average price of Platinum (in Rs. Per kg) for the given dates?
- a) 15683.65 b) 18926.35 c) 16333.33
- d) 17864.39 e) 19368.69
92. What is the percentage increase in the price of diamond on 16th September 2014 as compared to that on 9th September 2014?
- a) 2.38% b) 2.94% c) 3.69%
- d) 3.12% e) 4.08%
93. What is the maximum difference of prices (in rs. Per kg) of the two items for the given dates?
- a) Rs.956200 b) Rs.938500 c) Rs.786200
- d) Rs.896400 e) Rs.844500

Directions (Q. 94-98) Study the table and pie chart carefully to answer the given questions. The pie chart shows the percentage breakup of employees working in various departments of an organization

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The table shows the number of males in different departments

| | |
|-----------------------|-----|
| Production Department | 295 |
| HR Department | 42 |
| IT Department | 85 |
| Marketing Department | 165 |
| Accounts Department | 116 |

94. The number of males working in the Marketing department is what percent of the total number of employees working in that department? (round off to the nearest integer)
- a) 48.7% b) 56.23% c) 52.88%
d) 59.82% e) 63.23%
95. What is the ratio of the number of females working in Accounts department to the total number of employees in that department?
- a) 10 : 39 b) 17 : 39 c) 13 : 28
d) 5 : 12 e) None of these
96. The number of males working in IT department of the organization is what percent of the total number of employees working in that department?
- a) 39.63% b) 47.82% c) 51.89%
d) 44.27% e) 55.33%
97. The number of females working in Production department is what percent of the total number of employees working in all the departments together?
- a) 9.75% b) 12.41% c) 11.3%
d) 13.62% e) 15.71%
98. What is the ratio of the number of males working in the HR department to the number of females working in that department?
- a) 11 : 15 b) 17 : 25 c) 3 : 5
d) 15 : 23 e) 7 : 9

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- | | | | | | | | |
|------|-------|----|----|------------------|------------------|----|-------|
| 99. | 9 | 11 | 15 | ? | 39 | 71 | |
| | a) 29 | | | | b) 23 | | c) 21 |
| | d) 27 | | | | e) None of these | | |
| | | | | | | | |
| 100. | 7 | 8 | 12 | 21 | ? | 62 | |
| | a) 42 | | | b) 51 | | | c) 48 |
| | d) 35 | | | e) None of these | | | |

Answers:

1. Option D
2. Option B
3. Option E
4. Option C
5. Option D
6. Option D
7. Option C
8. Option A
9. Option B
10. Option E
11. Option A
12. Option C
13. Option D
14. Option B
15. Option E
16. Option D
17. Option C
18. Option C
19. Option D
20. Option B
21. Option C
22. Option D
23. Option C
24. Option A
25. Option D
26. Option B
27. Option C
28. Option E
29. Option A
30. Option D
31. Option B

C O M P A T I B I L I T Y
 The only word formed = LIMB
 Last letter = B

32. Option A

| | | | | | | |
|----|----|----|----|----|----|----|
| S | I | M | I | L | A | R |
| 19 | 9 | 13 | 9 | 12 | 1 | 18 |
| | | | | | | |
| I | Z | O | R | N | R | H |
| 9 | 26 | 15 | 18 | 14 | 18 | 8 |

33. Option C

Days by Sameer 16, 17 in February
 Days by Kanika 17, 18 in February

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17th February is common in both the groups
Clearly, the correct date is 17th February

- 34. Option E
- 35. Option C
- 36. Option A
- 37. Option D
- 38. Option E
- 39. Option C
- 40. Option A
- 41. Option D
- 42. Option A
- 43. Option A
- 44. Option D
- 45. Option A

Total time from 3 o'clock Sunday afternoon to 10 o'clock Tuesday morning = 43 h

Total increased time = $\frac{12}{3} \times 43 = 172 \text{ s} = 2 \text{ min } 52 \text{ s}$

Time at 10 o'clock Tuesday morning = 2 min 52 s past 10

- 46. Option D

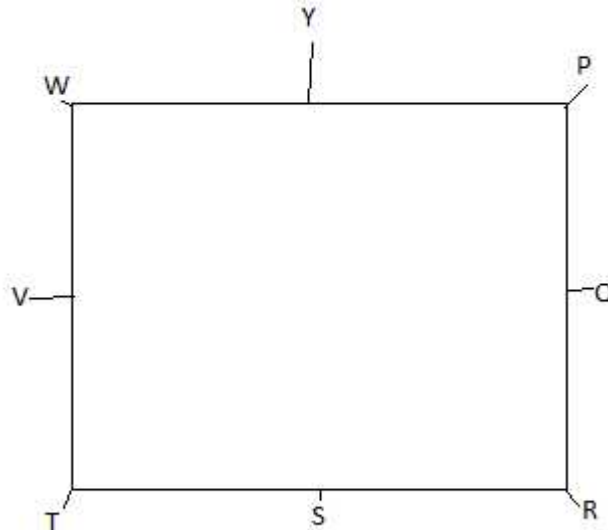
2 days before yesterday = Friday

Yesterday = Friday + 2 = Sunday

Today = Sunday + 1 = Monday

Day after tomorrow = Monday + 2 = Wednesday

- 47. Option D



- 48. Option A
- 49. Option C
- 50. Option A
- 51. Option E
- 52. Option B
- 53. Option D
- 54. Option B

| Candidates | (i)(a) | (ii) | (iii) | (iv) | (v) (b) |
|------------|--------|------|-------|------|---------|
| Abhishek | True | True | True | True | True |

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| | | | | | |
|----------|-------|------|------|------|-------|
| Sharad | True | True | True | True | False |
| Priyanka | True | True | True | True | True |
| Rakesh | True | True | True | True | True |
| Sarita | ? | True | True | True | True |
| Ashish | True | True | True | True | True |
| Radhika | True | True | True | True | True |
| Ashwani | True | True | True | True | True |
| Rajesh | ? | True | True | True | True |
| Rashmi | False | | | | |

55. Option A
 56. Option B
 57. Option C
 58. Option C
 59. Option E
 60. Option A

| Student | Standard | | | | | | | Subject | | | | | | |
|---------|----------|-------|-------|-------|-------|-------|-------|---------|-------|--------|---------|-----------|-------|----------|
| | II | III | IV | V | VI | VI I | VI II | English | Hindi | Civics | Biology | Chemistry | GK | Computer |
| A | False | False | False | True | False | False | False | False | False | False | False | False | False | True |
| B | False | False | False | False | False | True | False | False | False | False | False | True | False | False |
| C | False | False | False | False | True | False | False | True | False | False | False | False | False | False |
| D | False | False | True | False | False | False | False | False | False | False | True | False | False | False |
| E | False | False | False | False | False | False | True | False | Hindi | False | False | False | False | False |
| F | True | False | False | False | False | False | False | False | False | False | False | False | True | False |
| G | False | True | False | False | False | False | False | False | False | True | False | False | False | False |

| Student | Standard | Subject |
|---------|----------|-----------|
| A | V | Computer |
| B | VII | Chemistry |
| C | VI | English |
| D | IV | Biology |
| E | VIII | Hindi |
| F | II | GK |
| G | III | Civics |

61. Option E
 62. Option A
 63. Option C
 64. Option C
 65. Option C
 66. Option E

$$x + x + 2 + x + 4 + x + 6 = 4 \times 36$$

$$4x + 12 = 144$$

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$$4x = 144 - 12 = 132$$

$$x = 132/4 = 33$$

67. Option A

68. Option C

Ratio of the capital of one month equivalent of Mithilesh and Vidya = $48000 \times 12 : 56000 \times 5$
 $= 48 \times 12 : 56 \times 5 = 8 \times 6 \times 12 : 7 \times 8 \times 5 = 72 : 35$

$$\text{Share of Vidya} = \frac{35}{72+35} \times 5885 = \frac{35}{107} \times 5885 = \text{Rs.}1925$$

69. Option E

Suppose numbers are x and y.

$$x \times \frac{3}{4} = \frac{5}{6} \times y$$

$$\frac{x}{y} = \frac{5}{6} \times \frac{4}{3}$$

$$\frac{x}{y} = \frac{10}{9}$$

70. Option C

Suppose the monthly income of Natasha is rs.x

$$x \times \frac{60}{100} \times \frac{45}{100} = 11475$$

$$x = \frac{11475 \times 100 \times 100}{60 \times 45}$$

$$= \frac{11475 \times 100 \times 100}{2700} = \text{Rs.}42500$$

71. Option D

There are 4 letters in the word RUDE.

Required number of permutation = $4!$

$$= 4 \times 3 \times 2 \times 1 = 24$$

72. Option A

Suppose the ages of Bhakti and Neil are $8x$ and $7x$ respectively

$$\text{After 6 years } \frac{8x+6}{7x+6} = \frac{19}{17}$$

$$136x + 102 = 133x + 114$$

$$136x - 133x = 114 - 102$$

$$3x = 12$$

$$x = 4$$

$$\text{Age of Bhakti} = 8x = 8 \times 4 = 32$$

$$\text{Present age of Neil} = 7 \times x = 7 \times 4 = 28$$

$$\text{Required difference} = 32 - 28 = 4 \text{ years}$$

73. Option B

Suppose original fraction is $\frac{x}{y}$

$$\frac{x + \frac{x \times 500}{100}}{y + \frac{y \times 300}{100}} = \frac{18}{7}$$

$$\frac{6x}{4y} = \frac{18}{7}$$

$$\frac{x}{y} = \frac{12}{7}$$

74. Option B

I. $x^2 - 10x + 24 = 0$

$$x^2 - 6x - 4x + 24 = 0$$

$$x(x - 6) - 4(x - 6) = 0$$

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$$(x - 4)(x - 6) = 0$$

$$x = 4 \text{ or } 6$$

II. $y^2 - 14y + 48 = 0$

$$y^2 - 8y - 6y + 48 = 0$$

$$y(y - 8) - 6(y - 8) = 0$$

$$(y - 6)(y - 8) = 0$$

$$y = 6 \text{ or } 8$$

$$\text{So, } x < y$$

75. Option C

I. $2x^2 - 13x + 20 = 0$

$$2x^2 - 8x - 5x + 20 = 0$$

$$2x(x - 4) - 5(x - 4) = 0$$

$$(2x - 5)(x - 4) = 0$$

$$x = \frac{5}{2} \text{ or } 4$$

II. $2y^2 - 7y + 6 = 0$

$$2y^2 - 4y - 3y + 6 = 0$$

$$2y(y - 2) - 3(y - 2) = 0$$

$$(2y - 3)(y - 2) = 0$$

$$y = \frac{3}{2} \text{ or } 2$$

$$\text{So, } x > y$$

76. Option A

I. $x^2 - 5x + 6 = 0$

$$x^2 - 3x - 2x + 6 = 0$$

$$x(x - 3) - 2(x - 3) = 0$$

$$(x - 2)(x - 3) = 0$$

$$x = 2 \text{ or } 3$$

II. $y^2 - 9y + 20 = 0$

$$y^2 - 5y - 4y + 20 = 0$$

$$y(y - 5) - 4(y - 5) = 0$$

$$(y - 4)(y - 5) = 0$$

$$y = \frac{4}{3} \text{ or } \frac{5}{3}$$

$$\text{So, } x < y$$

77. Option E

I. $4x^2 - 20x + 21 = 0$

$$4x^2 - 6x - 14x + 21 = 0$$

$$2x(2x - 3) - 7(2x - 3) = 0$$

$$(2x - 7)(2x - 3) = 0$$

$$x = \frac{7}{2} \text{ or } \frac{3}{2}$$

II. $9y^2 - 27y + 20 = 0$

$$9y^2 - 15y - 12y + 20 = 0$$

$$3y(3y - 5) - 4(3y - 5) = 0$$

$$(3y - 4)(3y - 5) = 0$$

$$y = \frac{4}{3} \text{ or } \frac{5}{3}$$

78. Option D

I. $x^2 - 20x + 99 = 0$

$$x^2 - 11x - 9x + 99 = 0$$

$$x(x - 11) - 9(x - 11) = 0$$

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$$(x - 9)(x - 11) = 0$$

$$x = 9 \text{ or } 11$$

II. $y^2 - 17y + 72 = 0$

$$y^2 - 9y - 8y + 72 = 0$$

$$y(y - 9) - 8(y - 9) = 0$$

$$(y - 8)(y - 9) = 0$$

$$y = 8 \text{ or } 9$$

$$\text{So, } x = y$$

79. Option A

If the expenditure of the Company A in 2007 is x Lakh then,

$$x + x \times \frac{50}{100} = 630000$$

$$x = \text{Rs.}420000$$

80. Option C

If expenditure is Rs.x Lakh then,

$$35 = \frac{31.85}{x} \times 100$$

$$35x = 3185$$

$$x = \frac{3185}{35} = 91 \text{ Lakh}$$

81. Option E

$$\begin{aligned} \text{Average percent profit of Company A over all the years together} &= \frac{45+40+35+50+45+35}{6} = \frac{250}{6} \\ &= 41.66 = 42 \end{aligned}$$

82. Option B

83. Option D

84. Option A

$$\begin{aligned} \text{Total number of students from all the classes together in year 2005} &= 138 + 124 + 116 + 126 \\ &+ 123 + 120 = 747 \end{aligned}$$

85. Option B

$$\begin{aligned} \text{Average number of students in all the classes in the year 2004} &= \frac{122+112+100+125+124+116}{6} = \\ \frac{699}{6} &= 116.5 = 117 \end{aligned}$$

86. Option C

$$\begin{aligned} \text{Percent increase} &= \frac{128-120}{120} \times 100 \\ &= \frac{8}{120} \times 100 = 6.666 = 6.67 \end{aligned}$$

87. Option E

$$\text{Number of students in class X in the year 2008} = 124$$

$$\text{Number of students in class X from all the years together} = 116 + 120 + 121 + 121 + 124 + 128 = 730$$

$$\text{Required percentage} = \frac{124}{730} \times 100 = 16.98 = 17$$

88. Option D

$$\begin{aligned} \text{Required ratio} &= (142 + 145) : (136 + 144) \\ &= 287 : 280 = 41 : 40 \end{aligned}$$

89. Option B

$$\text{Rate of 1 kg platinum on 14}^{\text{th}} \text{ September 2014} = 15500$$

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Rate of 1 kg diamond on 14th September 2014 = 830000

$$\text{Required \%} = \frac{830000 - 15500}{830000} = 98.13\%$$

90. Option D

$$\text{Average price of diamond per kg for given 6 days} = \frac{8400 + 8500 + 8200 + 8300 + 8300 \times 100}{6} = 838333.33$$

Price of platinum on 11th September = 11500

$$\text{Required percentage} = \frac{838333.33}{11500} \times 100 = 7289.85\%$$

91. Option C

$$\text{Average price of platinum} = \frac{16500 + 15500 + 16000 + 15500 + 17500 + 17000}{6} = 16333.33$$

92. Option A

Price of diamond on 16th September 2014 = 860000

Price of diamond on 9th September 2014 = 840000

$$\text{Required percentage increase} = \frac{860000 - 840000}{840000} \times 100 = 2.38\%$$

93. Option E

For maximum difference, we will take minimum price of Platinum and maximum price of diamond

Now, minimum price of platinum = Rs.15500 per kg

Maximum price of diamond = Rs.860000 per kg

Required difference = 860000 – 15500 = Rs.844500

94. Option C

$$\text{Total number of employees working in the Marketing department} = 1200 \times \frac{26}{100} = 312$$

And the number of males working in Marketing department = 165

$$\text{Required \%} = \frac{165}{312} \times 100 = 52.88\%$$

95. Option A

$$\text{Total number of employees working in Accounts department} = 1200 \times \frac{13}{100} = 156$$

Total number of female employees working in Accounts department = 156 – 116 = 40

Required ratio = 40 : 156 = 10 : 39

96. Option D

The number of male employees working in IT department = 85

$$\text{Total number of employees working in IT department} = 1200 \times \frac{16}{100} = 192$$

$$\text{Hence required percentage} = \frac{85}{192} \times 100 = 44.27\%$$

97. Option B

$$\text{Total number of employees working in Production department} = 1200 \times \frac{37}{100} = 444$$

Total number of female employees working in Production department = 444 – 295 = 149

$$\text{Required \%} = \frac{149}{1200} \times 100 = 12.41\%$$

98. Option E

$$\text{Total number of employees working in HR department} = 1200 \times \frac{8}{100} = 96$$

Total number of female employees working in HR department = 96 – 42 = 54

Required ratio = 42 : 54 = 7 : 9

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99. Option B

100. Option E