

## EPFO SSA Previous Year Paper - 2019

**Directions (1-9):** Read the passage given below carefully and answer the questions based on the passage.

Ratings agency Moody's has reacted predictably to the **turbulence** in the economy by revising the outlook on its sovereign rating for India from stable to negative. Moody's India rating is a notch higher than that of Standard & Poor's and the outlook revision now may well be to compensate for its past optimism on India. Yet, the outlook revision has to be seen for what it is: a warning that if the economy fails to bounce back soon enough, the sovereign rating could be up for an unfavorable review. With due respect to Moody's, none of the issues that it has highlighted is unknown. The growth slowdown and its effects on the fiscal deficit and borrowings are the main worries. On the one hand, tax revenue growth is nowhere near budgeted levels and with the slowdown extending into the third quarter, it is clear that tax revenues will undershoot by a wide margin. On the other, the government has been forced to spend more to give a leg up to the economy. Apart from pushing expenditure on capital projects, the government last month gave away corporate tax concessions amounting to a whopping ₹1.45 lakh crore. Even with the boost from the ₹1.76 lakh crore dividend payout from the Reserve Bank of India, the budget arithmetic is optimistic and it now appears certain that the government will miss the fiscal deficit target of 3.3% of GDP. The only question is: by how much? Moody's has projected that the deficit will slip to 3.7% of GDP this fiscal. Ratings agencies are ultra-sensitive to fiscal deficit overruns but the positive factor here is that India's borrowings are almost wholly domestic. External debt to GDP is just 20% but the ratings do have an impact on investor sentiment.

But the Moody's **outlook** revision comes when there are faint signs of a revival in the economy. To be sure, it may be another quarter or two before growth picks up — the second quarter numbers due later this month may show GDP growing at less than 5%. But the festive season uptick in sales of automobiles and white goods does point to the return of the consumer to the market. Of course, the possibility that it was an artificial boost driven by the big discounts that were on offer cannot be ruled out. But there are other positive signals such as the increase in bank credit offtake reported by the RBI for the second successive fortnight. The government needs to press the **pedal** harder on reforms and in **debugging** GST. It may also have little option than to go big on disinvestment in the remaining four months of this fiscal. The target of ₹1.05 lakh crore that it set for itself in the budget has to be bested by a wide margin if the fiscal deficit slippage is to be contained. The supportive measures announced in the last two months should be closely monitored for implementation.

**Q1. What could be the main reason for the revision of the rating for India from stable to negative by Moody's?**

- (a) The World Trade Organization (WTO) is facing an unprecedented existential crisis.
- (b) Liquidity crunch in non-banking financial companies in the country.
- (c) GST and demonetization may have been the cause of the economic slowdown.
- (d) The on-going economic slowdown with its repercussions on the fiscal deficit and borrowings taken by the country.
- (e) None of these.

**Q2. What are the steps taken by the government to revive the economy?**

- (a) By giving concession on corporate taxes.
- (b) The government eased the procedure for seeking income tax exemption by startups on investments from angel funds
- (c) Expediting the expenditure on capital projects.
- (d) Both (a) & (b)
- (e) Both (a) & (c)

**Q3. What is the positive factor despite the projection on fiscal slippage of 0.4% of GDP in this fiscal?**

- (a) India has successfully achieved its track record to become the world's fastest-growing large economy for the first time.
- (b) The borrowings taken by India is domestic in nature.
- (c) India has been recording sustained trade deficits during the past two years.
- (d) The Increase in the credit offtake during the second successive fortnight.
- (e) Both (b) & (d)

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**Q4. What are the ways mentioned in the passage to meet the targets in the upcoming months of this fiscal?**

- (a) Deepening of financial inclusion will bring succour to the rural poor. The government must spearhead revival of investment in rural India.
- (b) By doubling the farmer's income in this fiscal the government achieved its target.
- (c) Since coming to power three years ago, the government has tried hard and still trying to project itself as a regional soft power.
- (d) To meet the targets, the government should go on a big disinvestment in the remaining four months.
- (e) None of these.

**Q5. What could be the appropriate title of this passage?**

- (a) Moody's outlook revision comes when there are faint signs of a revival in the economy.
- (b) The bank credit offtake has been there in the second fortnight of the fiscal.
- (c) Moody's has flagged known risks, and the Centre has to push harder for reforms
- (d) Turbulence in the economy is due to the global impact.
- (e) None of these.

**Q6. Which according to the author is incorrect as mentioned in the paragraph ?**

- (a) Sovereign rating for India from stable to negative predicted by Moody's.
- (b) The government gave away corporate tax concession amounting 1.45lakh crore.
- (c) External debt to GDP is just 20%.
- (d) Moody's has projected that the deficit will slip to 3.7% of GDP in the next fiscal.
- (e) None of these.

**Directions (7-8): Choose the word which is most nearly the SIMILAR in meaning to the given word printed in bold as used in the passage.**

**Q7. Turbulence**

- (a) Disturbance
- (b) Oblivious
- (c) Agreeable
- (d) Placid
- (e) Pacifying

**Q8. Pedal**

- (a) Torturous
- (b) Suave
- (c) Provincial
- (d) Cultured
- (e) Work

**Directions (9): Choose the word which is most nearly the OPPOSITE in meaning to the given word printed in bold as used in the passage.**

**Q9.Outlook**

- (a) Agree
- (b) Taunt
- (c) Indifference
- (d) Sneer
- (e) Crook

**Directions (10-14): Answer the following questions after rearranging the following sentences into a coherent paragraph.**

- (A) They came the day after 43 protesters were charged with rioting and released on bail.
- (B) The commander of the People's Liberation Army (PLA) garrison in Hong Kong warned it was "determined to protect national sovereignty, security, stability and the prosperity of Hong Kong".
- (C) The remarks were made by Chen Daoxiang on Wednesday at a reception celebrating the 92nd anniversary of the PLA.
- (D) Some of those charged were as young as 16 and included a Cathay Pacific pilot.
- (E) The head of the Chinese army in Hong Kong has spoken on the protests in Hong Kong for the first time, saying the unrest has "seriously threatened the life and safety" of the people and should not be tolerated.

**Q10.** Which of the following should be the **SECOND** sentence after rearrangement?

- (a) A
- (b) B
- (c) C
- (d) E
- (e) D

**Q11.** Which of the following should be the **FIRST** sentence after rearrangement?

- (a) E
- (b) C
- (c) D
- (d) B
- (e) A

**Q12.** Which of the following should be the **THIRD** sentence after rearrangement?

- (a) A
- (b) E
- (c) B
- (d) D
- (e) C

**Q13.** Which of the following should be the **FIFTH** sentence after rearrangement?

- (a) E
- (b) D
- (c) B
- (d) A
- (e) C

**Q14.** Which of the following should be the **FOURTH** sentence after rearrangement?

- (a) A
- (b) E
- (c) C
- (d) B
- (e) D

**Directions (15-20):** In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five options are given. Choose the most suitable word that coherently fits in the given blank.

There comes a time when the need for peace and \_\_\_\_\_ (15) is greater than the need for undoing an injustice. In allowing a temple to come up through a government-appointed trust at the disputed site in Ayodhya, the Supreme Court has apparently chosen a path most \_\_\_\_\_ (16) to social harmony. To compensate the Muslim \_\_\_\_\_ (17), who were deprived of the centuries-old Babri Masjid through an illegal act of demolition, the court has asked for the allotment of a five-acre plot of land elsewhere in Ayodhya that may be used for building a new mosque. That this is more of moral \_\_\_\_\_ (18) by way of a political compromise and less of adjudication in recognition of their religious rights is obvious. The final award will always be a source of discomfiture for those to whom closure goes beyond ensuring peace in a communally polarised \_\_\_\_\_ (19). But what is most welcome about the 1,045-page \_\_\_\_\_ (20) of a Bench of five judges is its unanimity.

**Q15.**

- (a) failure
- (b) closure
- (c) strong
- (d) simplicity
- (e) None of these.

**Q16.**

- (a) conducive
- (b) baffling
- (c) horrified
- (d) organised
- (e) None of these.

**Q17.**

- (a) migrants
- (b) reality
- (c) power
- (d) litigants
- (e) None of these.

**Q18.**

- (a) remorse
- (b) instigation
- (c) consolation
- (d) appreciation
- (e) None of these.

**Q19.**

- (a) efficacy
- (b) environment
- (c) possession
- (d) connoisseur
- (e) None of these.

**Q20.**

- (a) verdict
- (b) request
- (c) approval
- (d) procedure
- (e) extension

**Directions (21-25):** In the following questions each sentence is divided in four parts. Read each sentence to find out if there is any error in it. The error, if any will be in one part of the sentence. The number of that part is the answer if there is no error, mark (e) as your answer.

**Q21.** The elections to the Assemblies (A)/ of Maharashtra and Haryana saw (B) /the voter turnout dip in (C) /comparison with the 2014 polls (D).

- (a) (B)
- (b) (C)
- (c) (D)
- (d) (A)
- (e) No error

**Q22.** Infosys is embroiled in another (A) /controversy after a whistleblower group (B)/ said the company was indulging in (C)/“unethical practices” to boost short-term revenues and profits (D).

- (a) (B)
- (b) (C)
- (c) (D)
- (d) (A)
- (e) No error

**Q23. While openness (A)/ was necessary for (B)/ successful industrialization though(C)/ it was not sufficient (D).**

- (a) (B)
- (b) (C)
- (c) (D)
- (d) (A)
- (e) No error

**Q24. Learning and unlearning are part (A)/ of a process in which economic policies (B) /are seen as mean to the end of (C) /development, and not ends in themselves (D).**

- (a) (B)
- (b) (C)
- (c) (D)
- (d) (A)
- (e) No error

**Q25. The modest turnouts in Maharashtra (A)/ and Haryana could have been expected, (B)/ considering the lethargy that loomed over (C)/the Assembly election campaigns in both States (D).**

- (a) (B)
- (b) (C)
- (c) (D)
- (d) (A)
- (e) No error

**Directions (26-30): Each question below has one blank, which is indicating that something has been omitted. Find out which option can be used to fill up the blank in the sentence to make it grammatically as well as contextually correct.**

**Q26. The new company policy aims to increase the \_\_\_\_\_ of employee productivity by providing additional incentives.**

- (a) efficiency
- (b) inhibition
- (c) vulnerability
- (d) complexity
- (e) ambiguity

**Q27. After completing the research, the team compiled a \_\_\_\_\_ report summarizing their findings.**

- (a) verbose
- (b) succinct
- (c) ambiguous
- (d) redundant
- (e) frivolous

**Q28. The CEO's decision to implement cost-cutting measures was met with \_\_\_\_\_ from employees who feared layoffs.**

- (a) skepticism
- (b) enthusiasm
- (c) indifference
- (d) compliance
- (e) dissent

**Q29. The new coffee shop offers a wide variety of beverages to \_\_\_\_\_ to different tastes and preferences.**

- (a) pander
- (b) eschew
- (c) manifest
- (d) adjourn
- (e) mitigate

**Q30. The museum's exhibit includes several \_\_\_\_\_ artifacts from ancient civilizations that are not usually seen in public.**

- (a) mundane
- (b) eclectic
- (c) banal
- (d) pedestrian
- (e) generic

**Direction (31-35): Study the following information carefully and answer the questions given below:**

Eight persons A, B, C, D, E, F, G and H were born in different months i.e. January to August, but not necessarily in the same order. A was born in the month which has least number of days. Three persons were born between E and A who was born just before H. F who was born in the months which has 31 days and was born just after C. C and A were not born in February. G was born just after B and just before D.

**Q31. If E is related to F and H is related to A then, in the same way D is related to which of the following?**

- (a) G
- (b) F
- (c) C
- (d) B
- (e) A

**Q32. Which of the following statement is true as per the given information?**

- (a) D was born after F
- (b) Two persons were born between G and B
- (c) B was born in January
- (d) A was born after May
- (e) None is true

**Q33. The number of persons born between D and F is same as between B and \_\_\_\_.**

- (a) E
- (b) F
- (c) H
- (d) A
- (e) None of these

**Q34. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?**

- (a) H
- (b) D
- (c) B
- (d) F
- (e) G

**Q35. How many persons were born between B and A?**

- (a) Five
- (b) One
- (c) Four
- (d) Two
- (e) None

**Directions (36-38): In these questions, relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give the answer:**

- (a) If only conclusion I is true
- (b) If only conclusion II is true
- (c) If either conclusion I or II is true
- (d) If neither conclusion I nor II is true
- (e) If both conclusions I and II are true

**Q36. Statements:**  $N > E \geq S$ ;  $S \geq U \leq G$ ;  $V = U$

**Conclusions:** I.  $E \geq V$   
II.  $G > V$

**Q37. Statements:**  $A > B \leq D = E$ ;  $M \geq J > E = T$

**Conclusions:** I.  $D \geq A$   
II.  $M > D$

**Q38. Statements:**  $N > E \geq S$ ;  $S \geq U \leq G$ ;  $V = U$

**Conclusions:** I.  $G > E$   
II.  $E \geq G$

**Direction (39-43): Study the following information carefully and answer the questions given below:**

Twelve persons are sitting in the two parallel rows containing six persons in each row in such a way that there is an equal distance between adjacent persons. In the first row, A, B, C, D, E and F are seated and all of them are facing north. In the second row, P, Q, R, S, T and U are seated and all of them are facing south. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row. C who faces P sits third to the left of F. Two persons sit between R and P. The number of persons who sits to the left of A is same as the persons who sit to the left of R. E sits immediate left of B who does not sit at the extreme end of the row. T sits immediate right of S. More than one person sit between Q and T. D and S do not face each other.

**Q39. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?**

- (a) Q
- (b) A
- (c) R
- (d) C
- (e) F

**Q40. Who among the following faces to F?**

- (a) P
- (b) U
- (c) R
- (d) S
- (e) Either P or R

**Q41. What is the position of F with respect to B?**

- (a) Immediate to the left
- (b) 2<sup>nd</sup> to the left
- (c) 3<sup>rd</sup> to the right
- (d) 4<sup>th</sup> to the left
- (e) Immediate to the right

**Q42. Which of the following is true as per the given information?**

- (a) S sits to the immediate right of P
- (b) U faces to A
- (c) F sits at the extreme end
- (d) Both (b) and (c) are true
- (e) All are true

**Q43. Who among the following sits 3<sup>rd</sup> to the right T?**

- (a) U
- (b) None of these
- (c) S
- (d) P
- (e) R





**Directions (44-47): Study the following information carefully and answer the questions given below**

**In a certain code language:**

'follow water savage' is coded as 'st pq mn'  
'follow rules properly' is coded as 'ab uv mn'  
'properly drink water' is coded as 'uv jk pq'  
'drink warm water' is coded as 'zx pq jk'

**Q44. What is the code for the word 'warm'?**

- (a) zx
- (b) jk
- (c) pq
- (d) mn
- (e) None of these

**Q45. What is the code for the word 'drink water'?**

- (a) pq ab
- (b) jk mn
- (c) pq jk
- (d) Either pq ab or pq jk
- (e) None of these

**Q46. Which among the following words is coded as 'st'?**

- (a) savage
- (b) rules
- (c) follow
- (d) drink
- (e) None of these

**Q47. Which among the following words is coded as 'uv mn'?**

- (a) savage water
- (b) follow rules
- (c) properly drink
- (d) properly follow
- (e) None of these

**Directions (48-49): These questions are based on the following arrangement. Study the arrangement carefully to answer these questions.**

**K # & 2 U O @ P T 2 F 5 R & G H 4 % U 2 R ! 1 M 6 % I A B \$ 6 #**

**Q48. How many such symbols are there in the above arrangement each of which is immediately followed by a number and also immediately preceded by a consonant?**

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) More than three

**Q49. If all the vowels are eliminated from the series, then which of the following element is 7th from the left end?**

- (a) 2
- (b) F
- (c) T
- (d) 5
- (e) &

**Directions (50-54): Study the following information carefully and answer the questions given below:**

Eight persons i.e. A, B, C, D, E, F, G and H sit around a circular table and all of them are facing towards the centre of the table but not necessarily in the same order. G sits opposite to the one who sits second to the left of E. B is an immediate neighbour of G and sits third to the right of A. F sits second to the left of C. H sits next to D who doesn't sit opposite to E.

**Q50. Who among the following sits third to the left of the one who sits opposite to B?**

- (a) A
- (b) G
- (c) F
- (d) None of these
- (e) C

**Q51. How many persons sit between D and F when counted from the left of D?**

- (a) One
- (b) Three
- (c) Two
- (d) More than three
- (e) None

**Q52. If A is related to E, G is related to H then in the same manner C is related to \_\_\_\_.**

- (a) B
- (b) F
- (c) Either B or F
- (d) D
- (e) None of these

**Q53. Which among the following statements is true regarding D?**

- (a) D sits opposite to A
- (b) D sits second to the left of B
- (c) G and H are immediate neighbours of D
- (d) More than two persons sit between D and G when counted from the left of D
- (e) All are true

**Q54. Four of the following five belongs to a group in a certain way, find the one which does not belong to that group?**

- (a) E-H
- (b) A-G
- (c) C-D
- (d) B-F
- (e) B-E

**Direction (55-57): Study the following information carefully and answer the questions given below:**

Three friends start their journey from point O. P walks 5m in North direction then he turns to his left and walks for 5m. Q starts walking 5m in the North direction then he turns to his right and walks for 5m. R starts walking 5m towards South direction then he turns towards West direction and walks for 5m then he turns to his left and walks for 5m then again, he turns to his left and walks for 10m and at last he turns to his left and walks for 5m.

**Q55. What is the shortest distance between the final positions of Q and R?**

- (a)  $10\sqrt{2}$ m
- (b)  $20\sqrt{2}$ m
- (c) 10m
- (d) 20m
- (e) None of these

**Q56. In which direction is R with respect to P after reaching at their final positions?**

- (a) North East
- (b) South East
- (c) South
- (d) East
- (e) None of these

**Q57. What is the shortest distance between point O and R's final position?**

- (a) 20m
- (b) 10m
- (c)  $5\sqrt{2}$ m
- (d)  $20\sqrt{2}$ m
- (e) None of these

**Direction (58-61): In each of the questions below some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.**

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q58. Statements:** Only a few cricket is football. Some football is golf. No golf is tennis.

**Conclusions: I.** All cricket being football is a possibility.  
**II.** Some football is not tennis.

**Q59. Statements:** Only pink is colour. Only a few cold is pink. Some cold is not hot.

**Conclusions: I.** No colour is cold.  
**II.** Some pink can never be hot.

**Q60. Statements:** Only a few cricket is football. Some football is golf. No golf is tennis.

**Conclusions: I.** Some cricket is not football.  
**II.** No tennis is football.

**Q61. Statements:** Only a few one is two. All three is two. Only a few two is four.

**Conclusions: I.** Some three is not four.  
**II.** Some two is not one.

**Q62. How many pairs of letters are there in the word "PLATFORMS" which has as many letters between them as we have in the English alphabetical series (from both forward and backward direction)?**

- (a) Two
- (b) One
- (c) Three
- (d) None
- (e) More than three

**Direction (63-65): Study the following information carefully and answer the questions given below.**

Six books of different weights are arranged in a row in descending order of their weights from left to right. Book E is heavier than Book C. Book E is heavier than book G which is weighted as 3 kg. Book C is heavier than only one book. Book D is weighted as 8kg. Book A is heavier than book B but lighter than book D. Weight of all the books are in natural numbers. Book E is lighter than book B.

**Q63. What is the sum of the weights of book B and book D?**

- (a) 10kg
- (b) 14kg
- (c) 15kg
- (d) None of these
- (e) 16kg

**Q64. Which among the following book is 4<sup>th</sup> heaviest?**

- (a) B
- (b) C
- (c) D
- (d) E
- (e) None of these

**Q65. What is the difference between the weights of book B and book C?**

- (a) 2kg
- (b) 4kg
- (c) 5kg
- (d) 3kg
- (e) None of these

**Direction (66-75):** What will come in place of (?) question mark in the following questions.

**Q66.**  $457 + 285 - 672 = ? + 220$

- (a) 150
- (b) -150
- (c) 60
- (d) -60
- (e) -148

**Q67.**  $895 \div 25 \times 400 \div 20 = ?$

- (a) 516
- (b) 816
- (c) 616
- (d) 716
- (e) 916

**Q68.**  $\sqrt{\frac{3}{5} \times \left(\frac{89+136}{15}\right)} \times \sqrt[3]{42875} = ?$

- (a) 101
- (b) 102
- (c) 103
- (d) 104
- (e) 105

**Q69.**  $11\frac{3}{8} + 6\frac{5}{8} - 5\frac{1}{8} + 55\frac{13}{8} = ?$

- (a)  $69\frac{1}{2}$
- (b)  $57\frac{1}{2}$
- (c)  $67\frac{1}{4}$
- (d)  $67\frac{1}{2}$
- (e)  $67\frac{5}{8}$

**Q70.**  $\frac{114}{333} \times \frac{252}{121} \times \frac{22}{9} = \frac{28}{37} \times \frac{19}{?}$

- (a) 4.25
- (b) 18.25
- (c) 16.25
- (d) 2.25
- (e) 8.25

**Q71.**  $(219 + 87 - 46) \div (2 \times 4 + 5) = ?$

- (a) 10
- (b) 5
- (c) 2
- (d) 20
- (e) 3

**Q72.**  $\sqrt{225} \times 10 + 9^2 + \sqrt[2]{625} = ?^2$

- (a) 2
- (b) 4
- (c) 12
- (d) 18
- (e) 16

**Q73.**  $5\frac{7}{12} + 1\frac{5}{12} - ? = \sqrt[3]{64}$

- (a) 3
- (b)  $1\frac{1}{2}$
- (c) 1
- (d) 4
- (e) 2

**Q74.**  $144\% \text{ of } 200 + 11\% \text{ of } 900 + 10\% \text{ of } 20 = ?$

- (a) 289
- (b) 189
- (c) 389
- (d) 489
- (e) 358

**Q75.**  $\sqrt{100} + \sqrt{64} + \sqrt{9} + \sqrt[4]{81} + \sqrt[3]{216} + \sqrt[3]{27} = 11 \times ?$

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

**Q76.** The upstream speed and downstream speed of a boat is 20 kmph and 28 kmph respectively. The boat travelled for X hours & 6 hours in upstream and downstream respectively. If the distance travelled by boat in downstream is 88 km more than that of in upstream, then find the value of 'X'?

- (a) 4
- (b) 3
- (c) 6
- (d) 5
- (e) 8

**Q77.** A and B entered into a partnership by investing Rs. 8000 and Rs. 12000 respectively. After four months, A withdrew Rs.2000 & B invested Rs.3000 more. After three more months, C joined the business with a capital of Rs.10000. If at the end of year total profit is Rs.14900, then find the profit share of A is how much more than that of C?

- (a) Rs. 1500
- (b) Rs. 2200
- (c) Rs. 1200
- (d) Rs. 1300
- (e) Rs. 1450

**Q78.** The ratio of present age of A to that of B is 2:3 and the ratio of present age of A to that of C is 13:8. Find present age of B is what percent more than that of C?

- (a) 133.75%
- (b) 123.75%
- (c) 130.75%
- (d) 143.75%
- (e) 153.75%



**Q79.** A dishonest wheat seller uses 900 gm weight instead of one kg and also sells wheat at 20% profit. Find the overall profit percentage of wheat seller?

- (a)  $33\frac{1}{3}\%$
- (b)  $66\frac{2}{3}\%$
- (c) 20%
- (d)  $133\frac{1}{3}\%$
- (e)  $3\frac{1}{3}\%$

**Q80.** In a container the ratio of milk to water is 6 : 1. If 21 liter of mixture is taken out from the vessel and one liter water is added, then the ratio of milk to water in the final mixture becomes 21 : 4. Find the initial quantity (in liters) of milk in the vessel?

- (a) 20
- (b) 40
- (c) 50
- (d) 35
- (e) 60

**Q81.** The ratio of cost price to marked price of an article is 7 : 8 and shopkeeper gets a profit of Rs.80 by selling the article at Rs. 500. Find the marked price of the article?

- (a) 840 Rs.
- (b) 620 Rs.
- (c) 480 Rs.
- (d) 680 Rs.
- (e) 720 Rs.

**Q82.** A alone can complete a work in 10 days and B alone can complete the same work in 15 days. A starts the work alone and after three days B joined him to complete the remaining work. Find how many days required to complete the total work?

- (a) 4.2
- (b) 5.2
- (c) 6.2
- (d) 7.2
- (e) 8.2

**Q83.** In month of April income of A is Rs.30000 and his expenditure is Rs.20000. In month of May income of A increased by 20,000 and expenditure increased to Rs. 25000. Find A's saving increases by what percent in month of May over April?

- (a) 100%
- (b) 120%
- (c) 140%
- (d) 130%
- (e) 150%

**Q84.** The respective ratio of radius of a circle, length of a rectangle and side of a square is 7:6:3. If the ratio of length to breadth of the rectangle is 3:1 and sum of perimeter of circle, rectangle and square is 216 cm, then find the length of rectangle?

- (a) 18 cm
- (b) 36 cm
- (c) 42 cm
- (d) 9 cm
- (e) 6 cm

**Q85.** If the difference between compound interest and simple interest on Rs.8000 at the rate of R% per annum for two years is Rs.80, then find the value of R.

- (a) 30
- (b) 15
- (c) 2
- (d) 5
- (e) 10

**Direction (86–90):** In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number.

**Q86.** 141, 153, 167, 183, 202, 225

- (a) 141
- (b) 153
- (c) 167
- (d) 183
- (e) 202

**Q87.** 500, 500, 400, 240, 96, 19.4

- (a) 500
- (b) 400
- (c) 240
- (d) 96
- (e) 19.4



**Q88.** 21, 22, 43, 130, 519, 2598

- (a) 21
- (b) 22
- (c) 2598
- (d) 130
- (e) 519

**Q89.** 90, 97, 83, 90, 76, 82

- (a) 90
- (b) 97
- (c) 76
- (d) 82
- (e) 83

**Q90.** 14, 23, 148, 197, 926, 1040

- (a) 14
- (b) 23
- (c) 148
- (d) 197
- (e) 1040

**Q91.** Ratio of length of train P to that of train Q is 3: 5 and speed of train P & train Q is 72 km/hr and 54 km/hr respectively. If both trains running in opposite direction and crosses each other in 16 seconds, then find length of train Q?

- (a) 350 m
- (b) 250 m
- (c) 450 m
- (d) 150 m
- (e) 320 m

**Q92.** 50 people working 6 hours/day can do half of a work in 12 days, while 75 people working x hours/day can do the whole in 8 days. Find the value of x?

- (a) 6
- (b) 12
- (c) 16
- (d) 8
- (e) 14

**Q93.** Average marks scored by Aman in Math, English & Hindi are 70 and average marks scored by Aman in Hindi, English & Science are  $83\frac{1}{3}$ . If marks scored by Aman in English & Hindi are same, then find difference between Aman's marks in Science & Math?

- (a) 10
- (b) 40
- (c) 30
- (d) 20
- (e) Cannot be determined.

**Q94.** A person invests his money in two schemes, A and B. He invested Rs.  $(X+20000)$  in scheme A at 10% p.a. on simple interest for three years and Rs X in scheme B at 15% p.a. on simple interest for three years. If after three years the difference between interests received by man from both the scheme is zero, then find value of X?

- (a) Rs 25000
- (b) Rs 35000
- (c) Rs 50000
- (d) Rs 45000
- (e) Rs 40000

**Q95.** In a factory 40% are females and out of total males 65% are graduate. If total undergraduate males are 4200, then find the number of females in the factory?

- (a) 8600
- (b) 4400
- (c) 8000
- (d) 4800
- (e) 9000

**Directions (96-100):** Table given below gives information about number of articles sold by four different stores (A, B, C and D) in four (March, April, May and June) different months. Read the data carefully and answer the questions.

Stores	March	April	May	June
A	153	121	90	92
B	102	85	140	117
C	80	124	118	51
D	90	113	112	85

**Q96.** Total number of articles sold by A in May month are what percent of total number of articles sold by D in all months?

- (a) 20%
- (b) 12.5%
- (c) 22.5%
- (d) 37.8%
- (e) 28.28%

**Q97.** What is the ratio of total number of articles sold by A and C in April together to total number of articles sold by B in May month?

- (a) 7:4
- (b) 2:7
- (c) 7:11
- (d) 5:11
- (e) None of these.

**Q98.** What is the difference between average number of articles sold by B and D in all four months?

- (a) 21
- (b) 19
- (c) 24
- (d) 18
- (e) 11

**Q99. Total number of articles sold by A and B together in June are how much more or less than total number of articles sold by C and D together in April month?**

- (a) 32
- (b) 39
- (c) 33
- (d) 28
- (e) 22

**Q100. Total number of articles sold by C in June are how much percent more or less than total number of articles sold by B in April?**

- (a) 40% more
- (b) 66.67% less
- (c) 66.67% more
- (d) 40% less
- (e) 20% less

## Solutions

**S1. Ans.(d)**

**Sol.** Referring from the lines in the first paragraph, i.e “**The growth slowdown and its effects on the fiscal deficit and borrowings are the main worries**”, It is implicit that these are the main reasons for the revisions of the rating by Moody’s.

**S2. Ans.(e)**

**Sol.** This can be understood through the given above lines of the first paragraph, i.e “**On the other, the government has been forced to spend more to give a leg up to the economy. Apart from pushing expenditure on capital projects, the government last month gave away corporate tax concessions amounting to a whopping ₹1.45 lakh crore**”.

**S3. Ans.(e)**

**Sol.** Referring to the lines mentioned in the last few lines of the first paragraph, i.e “Ratings agencies are ultra-sensitive to fiscal deficit overruns but the positive factor here is that **India’s borrowings are almost wholly domestic**”, it is pretty clear that the option (b) will fit here. Now, glancing through the lines in the second paragraph, **But there are other positive signals such as the increase in bank credit offtake reported by the RBI for the second successive fortnight**, it is pretty clear that option (d) holds true. This makes option (e) our correct answer choice.

**S4. Ans.(d)**

**Sol.** This can be inferred from the few lines mentioned in the last part of the passage. “The government needs to press the pedal harder on reforms and in debugging GST. It may also have little option than to go big on disinvestment in the remaining four months of this fiscal”. From these lines it is implicit that the most suitable option that fits here is option (d).

**S5. Ans.(c)**

**Sol.** While going through the sentences of the passage, it is pretty clear that the only option fits here is option (c). As the whole passage talks about the reason Moody’s downgraded its rating from ‘stable’ to ‘negative’ and the policy government should take at its best to revive the economy.

**S6. Ans.(d)**

**Sol.** Referring to the lines in the first paragraph, it is mentioned that, Moody’s has projected that the deficit will slip to 3.7% of GDP this fiscal. This makes option (d) our correct answer choice.

**S7. Ans.(a)**

**Sol.** Oblivious- not aware of or concerned about what is happening around one  
Placid- not easily upset or excited.  
Pacifying- to bring or restore to a state of peace or tranquillity; quiet; calm:  
Option (a) is the correct answer choice for the given word.

**S8. Ans.(e)**

**Sol.** Torturous- characterized by, involving, or causing pain or suffering.  
Agonizing- causing great physical or mental pain.  
Suave- Smoothly agreeable or polite; agreeably or blandly urbane.  
Pedal -To work or use the pedals, as in playing an organ or propelling a bicycle.  
Provincial -Having or showing the manners, viewpoints, etc.  
This makes our correct answer choice option (e).

**S9. Ans.(c)**

**Sol.** Outlook means to “view or prospect from a particular place”.  
Taunt- To reproach in a sarcastic, insulting, or jeering manner; mock.  
Sneer- To smile, laugh, or contort the face in a manner that shows scorn or contempt  
Crook- a bent or curved implement, piece, appendage, etc.; hook.  
This makes our correct answer choice (c).

**S10. Ans.(b)**

**Sol.** Going through the given sentences, it can be clearly seen that (E) will be first in arrangement because of the starters of the remaining sentences restricts them to be the first sentence in the arrangement. Now taking hint from ‘threatened the life and safety’ it can be seen that the next sentence in the arrangement would be (B). Next in the arrangement will be (C) followed by sentence (A) and (D) as these sentences are talking about the remarks which is mentioned in sentence (C). So the correct sequence of sentences after rearrangement is **EBCAD**. Hence, the correct choice is option (b)

**S11. Ans.(a)**

**Sol.** Going through the given sentences, it can be clearly seen that (E) will be first in arrangement because of the starters of the remaining sentences restricts them to be the first sentence in the arrangement. Now taking hint from 'threatened the life and safety' it can be seen that the next sentence in the arrangement would be (B). Next in the arrangement will be (C) followed by sentence (A) and (D) as these sentences are talking about the remarks which is mentioned in sentence (C). So the correct sequence of sentences after rearrangement is **EBCAD**. Hence, the correct choice is option (a)

**S12. Ans.(e)**

**Sol.** Going through the given sentences, it can be clearly seen that (E) will be first in arrangement because of the starters of the remaining sentences restricts them to be the first sentence in the arrangement. Now taking hint from 'threatened the life and safety' it can be seen that the next sentence in the arrangement would be (B). Next in the arrangement will be (C) followed by sentence (A) and (D) as these sentences are talking about the remarks which is mentioned in sentence (C). So the correct sequence of sentences after rearrangement is **EBCAD**. Hence, the correct choice is option (e)

**S13. Ans.(b)**

**Sol.** Going through the given sentences, it can be clearly seen that (E) will be first in arrangement because of the starters of the remaining sentences restricts them to be the first sentence in the arrangement. Now taking hint from 'threatened the life and safety' it can be seen that the next sentence in the arrangement would be (B). Next in the arrangement will be (C) followed by sentence (A) and (D) as these sentences are talking about the remarks which is mentioned in sentence (C). So the correct sequence of sentences after rearrangement is **EBCAD**. Hence, the correct choice is option (b)

**S14. Ans.(a)**

**Sol.** Going through the given sentences, it can be clearly seen that (E) will be first in arrangement because of the starters of the remaining sentences restricts them to be the first sentence in the arrangement. Now taking hint from 'threatened the life and safety' it can be seen that the next sentence in the arrangement would be (B). Next in the arrangement will be (C) followed by sentence (A) and (D) as these sentences are talking about the remarks which is mentioned in sentence (C). So the correct sequence of sentences after rearrangement is **EBCAD**. Hence, the correct choice is option (a)

**S15. Ans.(b)**

**Sol.** Among the given words, only 'closure' which means 'something settled or resolved; the outcome of decision making', fits perfectly in the blank to make them grammatically correct and contextually meaningful.

**S16. Ans.(a)**

**Sol.** Among the given words, only 'conducive' which means tending to cause or produce something, fits perfectly in the blank to make them grammatically correct and contextually meaningful.

Baffling - impossible to understand; perplexing.

**S17. Ans.(d)**

**Sol.** Among the given words, only 'litigants' which means "(law) a party to a lawsuit; someone involved in litigation", fits perfectly in the blank to make them grammatically correct and contextually meaningful.

**S18. Ans.(c)**

**Sol.** Among the given words, only 'consolation' which means 'the act of consoling; giving relief in affliction', fits perfectly in the blank to make them grammatically correct and contextually meaningful.

Remorse- deep regret or guilt for a wrong committed.

**S19. Ans.(b)**

**Sol.** Among the given words, only 'environment' fits perfectly in the blank to make them grammatically correct and contextually meaningful.

Efficacy-The ability to produce a desired or intended result.

Connoisseur- A connoisseur is an authority in his field, someone who has expert knowledge and training

**S20. Ans.(a)**

**Sol.** Option (a) is correct according to the meaning of the words.

(a) Verdict: a decision or judgment made after considering all the facts and evidence in a legal case.

(b) Request: an act of asking for something politely or formally, often with an expectation of receiving it.

(c) Approval: a positive response or agreement to something, indicating that it is acceptable or satisfactory.

(d) Procedure: a set of steps or actions that are taken in a particular order to achieve a specific result or to carry out a task or function.

(e) Extension: the action of making something longer or larger; an additional period of time given to someone to complete a task or fulfill an obligation.



**S21. Ans.(c)**

**Sol.** There is a grammatical error in D part of the sentence. Use of "with" after comparison is incorrect. It has to be replaced with "to" to make the sentence grammatically correct.

**S22. Ans.(e)**

**Sol.** There is no error in the sentence. Hence, answer would be option (e).

**S23. Ans.(b)**

**Sol.** There is a grammatical error in C part of the sentence. Use of "though" is superfluous. Hence, answer would be option (b).

**S24. Ans.(b)**

**Sol.** There is a grammatical error in C part of the sentence. It should be "means" which means an action or system by which a result is achieved; a method. Hence, answer would be option (b).

**S25. Ans.(b)**

**Sol.** There is a grammatical error in C part of the sentence. It should be "had loomed" in place of "loomed" because this clause must be in past perfect tense. When two actions take place in past one after the other the former action is expressed in past perfect tense and the latter is expressed in simple past tense. Hence, answer would be option (b).

**S26. Ans.(a)**

**Sol.** The word "increase" suggests that the blank should be filled with a noun that represents a positive outcome. "Efficiency" is the quality of being able to do something quickly and effectively, which is a desirable goal in most workplaces.

**S27. Ans.(b)**

**Sol. :** The word "summarizing" suggests that the blank should be filled with an adjective that describes a brief and concise report. "Succinct" means expressing something in a brief and clear way, which is appropriate for a summary report.

**S28. Ans.(e)**

**Sol.** The word "feared" suggests that the blank should be filled with a noun that represents opposition or disagreement. "Dissent" means to express disagreement or opposition, which is appropriate in this context.

**S29. Ans.(a)**

**Sol.** The word "different tastes and preferences" suggests that the blank should be filled with a verb that means to cater or accommodate. "Pander" means to satisfy someone's desires or interests, which is appropriate in this context.

**S30. Ans.(b)**

**Sol.** The word "not usually seen in public" suggests that the blank should be filled with an adjective that describes something unusual or diverse. "Eclectic" means deriving ideas, styles, or tastes from a broad and diverse range of sources, which is appropriate in this context.

**Direction (31-35):** It is given that A was born in the month which has least number of days but not on February. from here we have two cases i.e., case 1 and case 2. Three persons were born between E and A who was born just before H. F who was born in the month which has 31 days was born just after C.C was not born in February.

CASE 1		CASE 2	
Month	Persons	Month	Persons
January		January	
February		February	E
March		March	
April	A	April	C
May	H	May	F
June	C	June	A
July	F	July	H
August	E	August	

G was born just after B and just before D. Thus case 2 ruled out. And the final arrangement is

Month	Persons
January	B
February	G
March	D
April	A
May	H
June	C
July	F
August	E

**S31. Ans.(a)****S32. Ans.(c)****S33. Ans.(c)****S34. Ans.(e)****S35. Ans.(d)****Solutions (36-38):****S36. Ans.(a)**

**Sol.** I.  $E \geq V$  (True) II.  $G > V$  (False)

**S37. Ans.(b)**

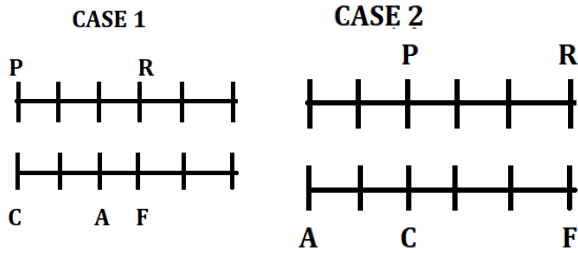
**Sol.** I.  $D \geq A$  (False) II.  $M > D$  (True)

**S38. Ans.(c)**

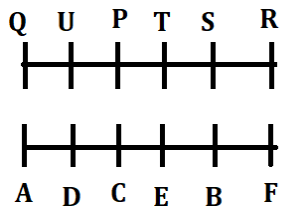
**Sol.** I.  $G > E$  (False) II.  $E \geq G$  (False)

**Direction (39-43):** It is given that C who faces P sits third to the left of F. Two persons sit between R and P. The number of persons who sit to the left of A is same as the persons who sit to the left of R. From here we have two cases i.e., case 1 and case 2.





E sits immediate left of B who does not sit at the extreme end of the row. Thus case 1 gets eliminated. T sits immediate right of S. More than one person sit between Q and T. D and S do not face each other. Thus, our final arrangement is-



- S39. Ans.(d)
- S40. Ans.(c)
- S41. Ans.(e)
- S42. Ans.(c)
- S43. Ans.(b)

**Solutions (44-47):**

WORDS	CODES
Follow	Mn
Water	Pq
Savage	St
Rules	Ab
Properly	Uv
Drink	jk
Warm	Zx

- S44. Ans.(a)
- S45. Ans.(c)
- S46. Ans.(a)
- S47. Ans.(d)

**TEST SERIES**

**BILINGUAL**

**EPFO 2023**

**Social Security Assistant**

**PRE & MAINS**

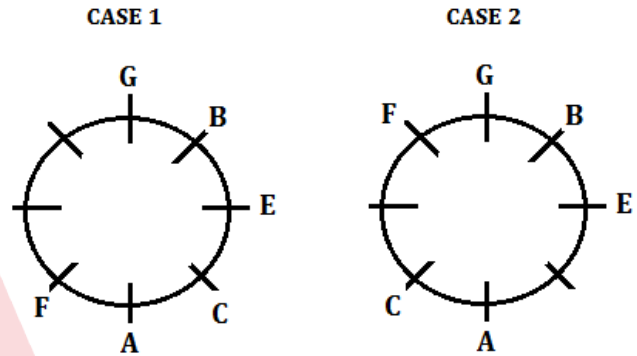
**185+TOTAL TESTS**

**Solutions (48-49):**

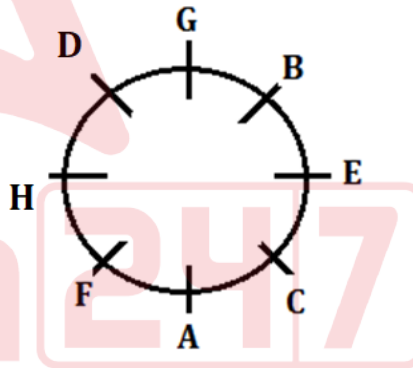
S48. Ans.(c)  
Sol. R ! 1, B \$ 6

S49. Ans.(c)  
Sol. T

**Solutions (50-54):** As per the given statements, G sits opposite to the one who sits second to the left of E. B is an immediate neighbour of G and sits third to the right of A. F sits second to the left of C. So, we have two possible cases i.e., case 1 and case 2.

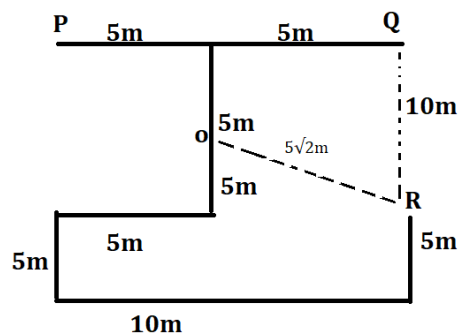


H sits next to D who doesn't sit opposite to E. So, case 2 gets eliminated now and the final arrangement is:



- S50. Ans.(b)
- S51. Ans.(d)
- S52. Ans.(a)
- S53. Ans.(c)
- S54. Ans.(e)

**Solutions (55-57):**



S55. Ans.(c)

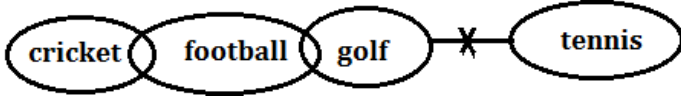
S56. Ans.(b)

S57. Ans.(c)

Solutions (58-61):

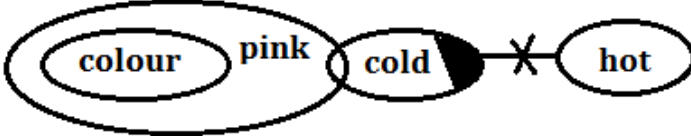
S58. Ans.(b)

Sol.



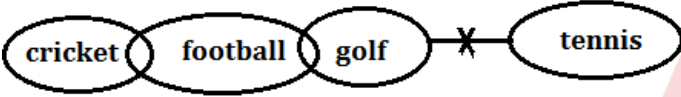
S59. Ans.(e)

Sol.



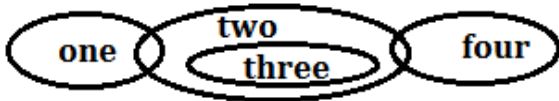
S60. Ans.(a)

Sol.



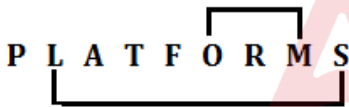
S61. Ans.(d)

Sol.



S62. Ans.(a)

Sol.



Solutions (63-65):

D(8kg) > A(7kg) > B(6kg) > E(5kg) > C(4kg) > G(3kg)

S63. Ans.(b)

S64. Ans.(d)

S65. Ans.(a)

S66. Ans.(b)

Sol.  $457 + 285 - 672 = ? + 220$

$-150 = ?$

S67. Ans.(d)

Sol.  $895 \div 25 \times 400 \div 20 = ?$

$\frac{895 \times 400}{25 \times 20} = ?$

$716 = ?$

S68. Ans.(e)

Sol.  $\sqrt{\frac{3}{5} \times \left(\frac{89+136}{15}\right)} \times \sqrt[3]{42875} = ?$

$\sqrt{\frac{3}{5} \times \left(\frac{225}{15}\right)} \times \sqrt[3]{42875} = ?$

$3 \times 35 = ?$

$105 = ?$

S69. Ans.(a)

Sol.  $11\frac{3}{8} + 6\frac{5}{8} - 5\frac{1}{8} + 55\frac{13}{8} = ?$

$(11 + 6 - 5 + 55) + \left(\frac{3}{8} + \frac{5}{8} - \frac{1}{8} + \frac{13}{8}\right) = ?$

$67 + \frac{20}{8} = ?$

$67 + 2\frac{1}{2} = ?$

$69\frac{1}{2} = ?$

S70. Ans.(e)

Sol.  $\frac{114}{333} \times \frac{252}{121} \times \frac{22}{9} = \frac{28}{37} \times \frac{19}{?}$

$8.25 = ?$

S71. Ans.(d)

Sol.  $(219 + 87 - 46) \div (2 \times 4 + 5) = ?$

$260 \div 13 = ?$

$20 = ?$

S72. Ans.(e)

Sol.  $\sqrt{225} \times 10 + 9^2 + \sqrt[2]{625} = ?^2$

$150 + 81 + 25 = ?^2$

$256 = ?^2$

$16 = ?$

S73. Ans.(a)

Sol.  $5\frac{7}{12} + 1\frac{5}{12} - ? = \sqrt[3]{64}$

$7 - ? = 4$

$3 = ?$

S74. Ans.(c)

Sol.  $144\% \text{ of } 200 + 11\% \text{ of } 900 + 10\% \text{ of } 20 = ?$

$288 + 99 + 2 = ?$

$389 = ?$

S75. Ans.(c)

Sol.  $\sqrt{100} + \sqrt{64} + \sqrt{9} + \sqrt[4]{81} + \sqrt[3]{216} + \sqrt[3]{27} = 11 \times ?$

$10 + 8 + 3 + 3 + 6 + 3 = 11 \times ?$

$33 = 11 \times ?$

$3 = ?$

S76. Ans.(a)

Sol. ATQ -

$28 \times 6 - 20 \times X = 88$

$20X = 80$

$X = 4$

**S77. Ans.(a)****Sol.** Profit ratio of A, B to that of C =

$$[8000 \times 4 + (8000 - 2000) \times 8] : [12000 \times 4 + (12000 + 3000) \times 8] : (10000 \times 5)$$

$$= 80 : 168 : 50$$

$$= 40 : 84 : 25$$

$$\text{Required difference in profit share of A and C} = \frac{40-25}{149} \times 14900 = \text{Rs. } 1500$$

**S78. Ans.(d)****Sol.** Let present age of A be  $26x$ Present age of B =  $39x$ Present age of C =  $16x$ 

$$\text{Required percentage} = \left( \frac{39x-16x}{16x} \right) \times 100 = \frac{23}{16} \times 100 = 143.75\%$$

**S79. Ans.(a)****Sol.** Let the cost price = Rs.  $100x$ Selling price = Rs.  $120x$ 

$$\text{Actual selling price} = 120x \times \frac{1000}{900} = 133\frac{1}{3}x$$

$$\text{Profit \%} = \frac{133\frac{1}{3}x - 100x}{100x} \times 100 = 33\frac{1}{3}\%$$

**S80. Ans.(e)****Sol.** Let the initial milk & water in vessel be  $6x$  &  $x$  liters respectively.

ATQ -

$$\frac{6x-21 \times \frac{6}{7}}{x-21 \times \frac{1}{7}+1} = \frac{21}{4}$$

$$\frac{6x-18}{x-3+1} = \frac{21}{4}$$

$$24x - 72 = 21x - 42$$

$$3x = 30$$

$$x = 10 \text{ liters}$$

$$\text{Initial quantity of milk in vessel} = 6x = 60 \text{ liters}$$

**S81. Ans.(c)****Sol.** Let cost price of article = Rs  $210x$ 

$$\text{So, marked price of article} = 210x \times \frac{8}{7} = \text{Rs. } 240x$$

ATQ -

$$210x = 500 - 80 = 420$$

$$x = 2 \text{ Rs.}$$

$$\text{Marked price} = \text{Rs. } 480$$

**S82. Ans.(d)****Sol.** Days total work efficiency

A 10 3 unit/day

30 units

B 15 2 unit/day

ATQ,

Let no. of days taken by A and B together to complete the remaining work be  $x$  days.

ATQ

$$3 \times 3 + (3 + 2) \times x = 30$$

$$5x = 21$$

$$x = 4.2 \text{ days}$$

$$\text{Total days} = 3 + 4.2 = 7.2 \text{ days}$$

**S83. Ans.(e)****Sol.** April May

Income Rs.30000 Rs.50000

Expenditure Rs.20000 Rs.25000

Savings Rs.10000 Rs.25000

$$\text{Required percentage} = \frac{25000-10000}{10000} \times 100 = 150\%$$

**S84. Ans.(a)****Sol.** Let radius to circle, length of rectangle and side of square be  $7x$ ,  $6x$  and  $3x$  respectively.

$$\text{Breadth of rectangle} = \frac{6x}{3} \times 1 = 2x$$

ATQ

$$2 \times \frac{22}{7} \times 7x + 2 \times (6x + 2x) + 4 \times 3x = 216$$

$$44x + 16x + 12x = 216$$

$$72x = 216$$

$$x = 3$$

$$\text{Length of rectangle} = 6x = 18 \text{ cm}$$

**S85. Ans.(e)**

$$\text{Sol. CI-SI} = \frac{PR^2}{100 \times 100}$$

$$\frac{8000 \times R^2}{100 \times 100} = 80$$

$$R^2 = 100$$

$$R = 10$$

**S86. Ans.(a)****Sol.** Wrong number = 140

Pattern of series -

140,	153,	167,	183,	202,	? = 225
	+13	+14	+16	+19	+23
	+1	+2	+3	+4	

**S87. Ans.(e)****Sol.** Wrong number = 19.4

Pattern of series -

$$500 \times \frac{5}{5} = 500$$

$$500 \times \frac{4}{5} = 400$$

$$400 \times \frac{3}{5} = 240$$

$$240 \times \frac{2}{5} = 96$$

$$96 \times \frac{1}{5} = 19.2$$

**S88. Ans.(c)****Sol.** Wrong number = 2598

Pattern of series -

$$21 \times 1 + 1 = 22$$

$$22 \times 2 - 1 = 43$$

$$43 \times 3 + 1 = 130$$

$$130 \times 4 - 1 = 519$$

$$519 \times 5 + 1 = 2596$$

**S89. Ans.(d)****Sol.** Wrong number = 82

Pattern of series -

$90 + 7 = 97$

$97 - 14 = 83$

$83 + 7 = 90$

$90 - 14 = 76$

$76 + 7 = 83$

**S90. Ans.(e)****Sol.** Wrong number = 1040

Pattern of series -

$14 + 3^2 = 23$

$23 + 5^3 = 148$

$148 + 7^2 = 197$

$197 + 9^3 = 926$

$926 + 11^2 = 1047$

**S91. Ans.(a)****Sol.** Let length of train P =  $3x$ Length of train Q =  $5x$ 

Speed of train P =  $72 \times \frac{5}{18} = 20$  m/sec

Speed of train Q =  $54 \times \frac{5}{18} = 15$  m/sec

ATQ,

$\frac{8x}{20+15} = 16$

$x = 70$

Length of train Q =  $5 \times 70 = 350$  m

**S92. Ans.(b)****Sol.** ATQ -

$\frac{50 \times 12 \times 6}{\frac{1}{2}} = \frac{75 \times 8 \times x}{1}$

$x = 12$

**S93. Ans.(b)****Sol.** Let marks scored by Aman in each of English & Hindi be 'x'.

ATQ,

Aman's marks in Math =  $(70 \times 3) - 2x$   
 $= 210 - 2x$

And, Aman's marks in Science =  $\left(\frac{250}{3} \times 3\right) - 2x$   
 $= 250 - 2x$

Required difference =  $(250 - 2x) - (210 - 2x)$   
 $= 40$

**S94. Ans.(e)****Sol.** ATQ

$\frac{X \times 15 \times 3}{100} - \frac{(X + 20000) \times 10 \times 3}{100} = 0$

$45X = 30X + 600000$

$15X = 600000$

$X = 40000$

**S95. Ans.(c)****Sol.** Let total male & females in factory =  $100x$ 

So, total male =  $100x \times \frac{60}{100} = 60x$

ATQ -

$60x \times \frac{35}{100} = 4200$

$x = 200$

So, total females in factory =  $40 \times 200 = 8000$

**S96. Ans.(c)**

**Sol.** required percentage =  $\frac{90}{90+113+112+85} \times 100 = 22.5\%$

**S97. Ans.(a)**

**Sol.** required ratio =  $(121 + 124): 140$

$= 245:140$

$= 7:4$

**S98. Ans.(e)**

**Sol.** required difference =  $\frac{102+85+140+117}{4} - \frac{90+113+112+85}{4}$

$= \frac{444}{4} - \frac{400}{4}$

$= 111 - 100$

$= 11$

**S99. Ans.(d)**

**Sol.** required difference =  $124 + 113 - 117 - 92 = 28$

**S100. Ans.(d)**

**Sol.** required percentage =  $\frac{85-51}{85} \times 100$

$= \frac{34}{85} \times 100$

$= 40\% \text{ less}$

