### Grand Test – IPP 180924



# **IBPS PO Preliminary Grand Test – IPP-180924 HINTS & SOLUTIONS**

10.(1)

11-15.

11.(5) 13.(1) 16.(2) 18.(4) 21.(1)23.(2)

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

## **HINTS & SOLUTIONS**

- 1.(2) Refer to the last few lines of second paragraph of the passage "the MPC has said monetary policy can be effective only when private investment has revived, the banking sector's health is restored". Hence only sentence (iii) is correct.
- 2.(3) Refer to the first few lines of first paragraph " The Reserve Bank of India's decision to keep the policy interest rate unchanged, and reaffirm its "neutral" policy stance, clearly indicates that policymakers at the central bank are singularly focussed on their primary remit of ensuring price stability while supporting economic growth".
- 3.(1) The tone of the author here is descriptive as the author presents the detail report of the news.
- 4.(2) Refer to the last lines of first paragraph "And the elephant in the room, in the MPC's opinion, is the real prospect of inflationary spillovers from the rising risk of fiscal slippages caused by farm loan waivers". Hence sentence (b) is true.
- 5.(4) The author describes about the RBI's monetary policy decision of unchanging policy rates. Hence sentence (d) is the correct choice.
- 6.(5) All of the given statements are true in context of the passage.

| 7.(4) | Benign means benevolent or favourable. Hence it has |
|-------|---|
|       | same meaning as <b>favourable</b> .                 |
|       | Previse means predict.                              |

- 8.(2) Pertinent means relevant or applicable to a particular matter; apposite. Hence it has same meaning as appropriate. Straggle means an untidy or irregularly arranged mass or group.
- 9.(3) Undergird means provide support or a firm basis for. Hence it has opposite meaning as undermine. Fractious means easily irritated or annoyed.
  - Inure means cause to accept or become hardened to. Construe means make sense of.
    - Enervate means weaken mentally or morally.
    - Bottlenecks means blockage/impediment. Hence it has opposite meaning as aid.
    - Adamant means refusing to be persuaded or to change one's mind.
      - Admonish means scold.

Hapless means unfortunate and deserving pity.

The correct sequence is EDACFB.

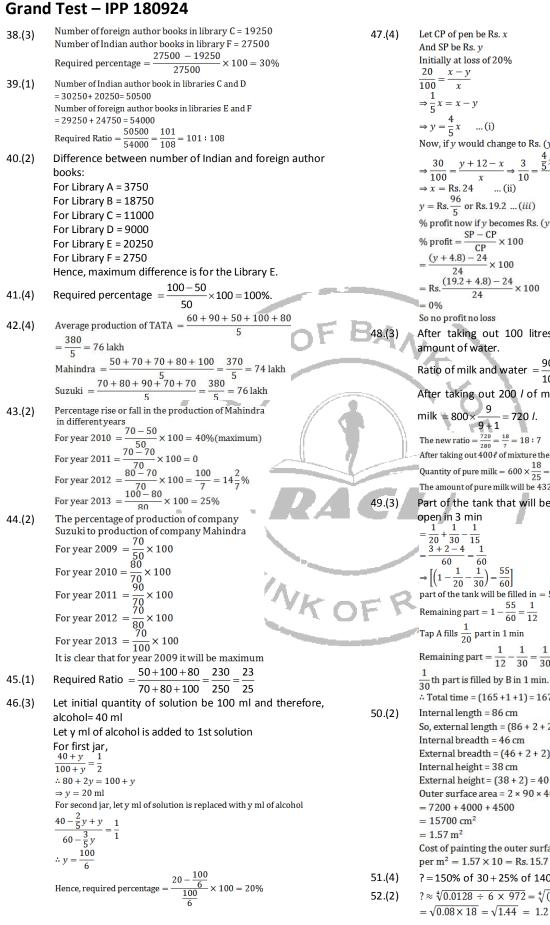
| N          | - <b>1</b> | 12.(2) |                                      |                                      |
|------------|------------|--------|--------------------------------------|--------------------------------------|
| - <u>1</u> | U -        | 14.(2) |                                      | 15.(5)                               |
| 1          | -          | 17.(4) |                                      |                                      |
| - 11       |            | 19.(3) |                                      | 20.(5)                               |
| - 11       |            | 22.(3) |                                      |                                      |
| 1          |            | 24.(5) |                                      | 25.(1)                               |
|            | 1          |        | 14.(2)<br>17.(4)<br>19.(3)<br>22.(3) | 14.(2)<br>17.(4)<br>19.(3)<br>22.(3) |

- The correct preposition should be used. Note that it is 26.(2) patience 'with' people and not 'to' people.
- 27.(4) The same friend is both a singer and a scientist. So it should be 'who is a singer and scientist'.
- Incorrect preposition is used. We abstain 'from' 28.(3) something.
- 'Have' must replace 'has' as 'best players' are referred 29.(4) to.
- 30.(2) Charges are 'levelled' against a person, not 'levied'.
- 31.(2) Series is +9, -18, +27, -36, +47
  - So, 25 − 36 = −11.
- 6 × 1 + 1, 7 × 3 + 3, 24 × 5 + 5, 125 × 7 + 7, 882 × 9 + 9 32.(5) So, 24 × 5 + 5 = 125.
- Series is  $2 + (1^2 + 1^3)$ ,  $4 + (2^2 + 2^3)$ ,  $16 + (3^2 + 3^3)$ ,  $52 + (4^2)$ 33.(3) + 4<sup>3</sup>)
- So,  $16 + (3^2 + 3^3) = 52$ . 34.(1) Series is × 1 + 1, × 1.5 + 1.5, ×2 + 2, ×2.5 + 2.5, ×3 + 3
- So,  $30 \times 3 + 3 = 93$ . Series is  $1^3 + 1$ ,  $2^3 - 1$ ,  $3^3 + 1$ ,  $4^3 - 1$ ,  $5^3 + 1$ 35.(1)
- So, 125 + 1 = 126. Number of Indian author books in given libraries
- 36.(4) = 26250 + 30250 + 27500= 84000

Required Average =  $\frac{84000}{3}$  = 28000

- Number of Indian author books in library A in 2017
- 37.(2) = 26250 - 20% of 26250 = 21000 Number of Indian author books in library B in 2017 = 15000 + 10% of 15000
  - = 16500

Required difference = 21000 - 16500 = 4500



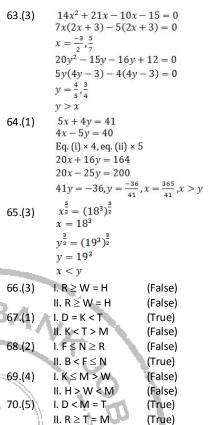
Let CP of pen be Rs. x And SP be Rs. y Initially at loss of 20%  $\frac{20}{100} = \frac{x - y}{x}$  $\Rightarrow \frac{1}{5}x = x - y$  $\Rightarrow y = \frac{4}{5}x$  ... (i) Now, if y would change to Rs. (y + 12) then profit becomes 30%  $\Rightarrow \frac{30}{100} = \frac{y+12-x}{x} \Rightarrow \frac{3}{10} = \frac{\frac{4}{5}x+12-x}{x}$  $\Rightarrow x = \operatorname{Rs.} 24 \qquad \dots \text{ (ii)}$  $y = \text{Rs.} \frac{96}{5}$  or Rs. 19.2 ... (*iii*) 5 % profit now if y becomes Rs. (y + 4.8) % profit =  $\frac{SP - CP}{CP} \times 100$ =  $\frac{(y + 4.8) - 24}{24} \times 100$  $= \text{Rs.} \frac{\binom{24}{19.2 + 4.8} - 24}{24} \times 100$ = 0%So no profit no loss After taking out 100 litres of milk and adding some amount of water. Ratio of milk and water  $=\frac{900}{100}=9:1.$ After taking out 200 / of mixtures, then the quantity of milk =  $800 \times \frac{9}{2} = 720$  /. 9+1 The new ratio  $=\frac{720}{280}=\frac{18}{7}=18:7$ After taking out  $400\ell$  of mixture the rest amount of mixture will be  $600\ell$ . Quantity of pure milk =  $600 \times \frac{18}{25} = 24 \times 18 = 432 \ell$ The amount of pure milk will be 432 litres. Part of the tank that will be filled when all the pipes are open in 3 min  $\frac{1}{20} + \frac{1}{30} - \frac{1}{15} = \frac{3+2-4}{50} = \frac{1}{60}$  $= \frac{1}{60} = \frac{1}{60}$  $\Rightarrow \left[ \left( 1 - \frac{1}{20} - \frac{1}{30} \right) = \frac{55}{60} \right]$ part of the tank will be filled in = 55 × 3 = 165 min. Remaining part =  $1 - \frac{55}{60} = \frac{1}{12}$ Tap A fills  $\frac{1}{20}$  part in 1 min Remaining part =  $\frac{1}{12} - \frac{1}{30} = \frac{1}{30}$  $\frac{1}{30}$ th part is filled by B in 1 min. .: Total time = (165 +1 +1) = 167 min. Internal length = 86 cm So, external length = (86 + 2 + 2) = 90 cm Internal breadth = 46 cm External breadth = (46 + 2 + 2) = 50 cmInternal height = 38 cm External height = (38 + 2) = 40 cm Outer surface area = 2 × 90 × 40 + 2 × 50 × 40 + 90 × 50 = 7200 + 4000 + 4500 $= 15700 \text{ cm}^2$  $= 1.57 \text{ m}^2$ Cost of painting the outer surface at Rs. 10 per  $m^2 = 1.57 \times 10 = Rs. 15.7$ ? = 150% of 30 + 25% of 140 = 45 + 35 = 80.  $? \approx \sqrt[4]{0.0128 \div 6 \times 972} = \sqrt[4]{(0.0064 \times 2) \times (324 \times 3) \div 6}$ 

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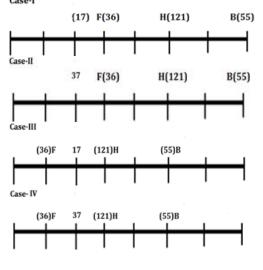
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|--------|--|
| 53.(1) | $?^2 \approx 1445 \times 80 \div 100 = (17^2 \times 5) \times (4^2 \times 5) \div (2^2 \times 5^2)$<br>Or ?≈ 17 × 4 ÷ 2 = 34   |
| 54.(5) | $?^3 \approx (75)^2 - (25)^2 - (30)^2 = 5625 - 625 - 900 = 4100$<br>Or $? \approx 16$  |
| 55.(3) | $? = \frac{18}{5} \times \frac{15}{4} \times \frac{11}{9} - \frac{32}{5} \div \frac{8}{3} = \frac{33}{2} - \frac{12}{5}$   |
| 56.(5) | = 16.5 - 2.4 = 14.1 = 14 (approx.)<br>Bob's present age = x<br>Abby's present age = $(x + 8)$ years<br>$\frac{x+4}{x+12} = \frac{4}{5}$<br>x = 28 years  |
| 57.(4) | x = 200000000000000000000000000000000000   |
| 58.(2) | Distance covered in 2 hours = $62 \times 2 = 124$ km<br>Distance remaining = $(827 - 124) = 703$ km<br>Required time = $\frac{703}{62+59}$<br>= $\frac{703}{121}$ hour<br>= 5 hrs 48 min<br>Hence they will meet 12 : 48 pm.   |
| 59.(2) | Let Leena had a sum of money = $x$ Rs.<br>Sum invested by her in scheme $x = \frac{5x}{11}$  |
| 60.(1) | Sum invested by her in scheme $y = \frac{6x}{11}$<br>$\therefore \frac{5x}{11} \times \frac{6 \times 18}{100} - \frac{6x}{11} \left[ \left( 1 + \frac{20}{100} \right)^2 - 1 \right] = 1518$ $x = 6050 \text{ Rs.}$<br>$\therefore \text{ Required amount} = \frac{6050 \times 5}{11}$ $= 2750 \text{ Rs.}$<br>Let radius = $r \text{ cm}$<br>Height = h cm<br>$\frac{2\pi rh + 2\pi r^2}{2\pi rh} = \frac{5}{4}$<br>$\frac{h+r}{h} = \frac{5}{4}$                         |
| 61.(5) | $n = \frac{h}{4}$<br>$r = \frac{h}{4}$ (i)<br>$2\pi rh = 1232$<br>$h^2 = \frac{1232 \times 7 \times 4}{2 \times 22} = 784$<br>h = 28  cm<br>Let $\sqrt{x} = a$<br>$63a^2 - 94a + 35 = 0$<br>$63a^2 - 49a - 45a + 35 = 0$<br>7a(9a - 7) - 5(9a - 7) = 0<br>$a = \frac{5}{7}, \frac{7}{9}$<br>$x = \frac{25}{49}, \frac{49}{81}$   |
| 62.(1) | Let $\sqrt{y} = b$<br>$32b^2 - 28b - 24b + 21 = 0$<br>4b(8b - 7) - 3(8b - 7) = 0<br>$b = \frac{3}{4}, \frac{7}{8}$<br>$y = \frac{9}{16}, \frac{49}{64}$<br>No relation can be established.<br>$x^2 - 7\sqrt{3}x - 5\sqrt{5}x + 35\sqrt{15} = 0$<br>$x(x - 7\sqrt{3}) - 5\sqrt{5}(x - 7\sqrt{3}) = 0$<br>$x = 5\sqrt{5}, 7\sqrt{3}$<br>$y^2 - 2\sqrt{5}y - 3\sqrt{5}y + 30 = 0$<br>$y(y - 2\sqrt{5}) - 3\sqrt{5}(y - 2\sqrt{5}) = 0$<br>$y = 2\sqrt{5}, 3\sqrt{5}$<br>x > y |



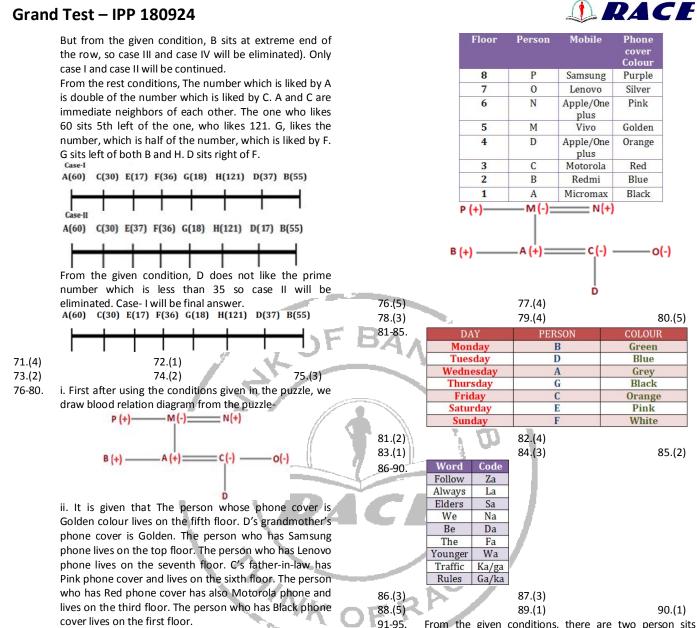
71-75.

From the given condition, the one, who likes a prime number, sits third from left end of the row, so either the one who likes 37 or who likes 17 sits 3rd from the left end.

From the conditions, The one, who likes a prime number and sits third from left end of the row and F are immediate neighbor of each other. B, sits 4th to the right of F. F likes a number which is perfect square but not a palindrome number. H sits 2nd to the left of B.B, the one who likes a palindrome number which is divisible by both 11 and 5. Palindrome number is a number that remains same when its digits are reversed so the number is 55. The one, who sits 2nd right of the one, who likes 36 numbers likes the palindrome number which is divisible by 11. We have 4 cases from the above conditions. Case-I







| Floor | Person | Mobile   | Phone<br>cover<br>Colour |
|-------|--------|----------|--------------------------|
| 8     |        | Samsung  |                          |
| 7     |        | Lenovo   | 10.0                     |
| 6     | N      |          | Pink                     |
| 5     | M      |          | Golden                   |
| 4     |        |          |                          |
| 3     |        | Motorola | Red                      |
| 2     |        |          |                          |
| 1     |        |          | Black                    |

iii. It is given that the person whose phone cover is of orange colour lives between C and D's grandmother. D's uncle's phone cover is Blue. The person who has Redmi phone is a brother of A. O's phone cover is Silver and N's brother-in-law has phone cover of purple colour. A's child lives on an even numbered floor. The one who has One plus phone lives on even-numbered floor. The person who has Apple phone lives on an even-numbered floor. The person who has Golden phone cover does not has Micromax mobile phone so the final arrangement isFrom the given conditions, there are two person sits between the person who want to see Vashisht Baths and the one who is immediate above the one, who is planning to go on December. The person, who want to see Beas Kund is planning to go on May and sits immediate above the person, who wants to see Vashisht Baths. The person, who is planning to go on December, is not immediate above the person, who is planning to go on May. Only One person sits between the person, who wants to see Solang Valley and the person, who wants to see Vashisht Baths, who is planning to go on July.

| Case-1 |          |           |   | Case-2 |          |           |  |
|--------|----------|-----------|---|--------|----------|-----------|--|
| Person | Months   | Locations |   | Person | Months   | Locations |  |
|        | May      | Beas      |   |        |          | Solang    |  |
|        |          | Kund      | ļ |        |          | Valley    |  |
|        | July     | Vashisht  |   |        | May      | Beas      |  |
|        | July     | Baths     |   |        |          | Kund      |  |
|        | -        | Datis     |   |        | July     | Vashisht  |  |
|        |          |           |   |        |          | Baths     |  |
|        |          | Solang    |   |        |          |           |  |
|        |          | Valley    |   |        |          |           |  |
|        |          |           | 1 |        |          |           |  |
|        | December |           |   |        | December |           |  |

From the given conditions, neither V nor T is planning to go on December and May. There are three persons sit

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between the one who is planning to go on June and V. V is planning to go on September and he does not want to see Solang Valley. Hence there can be two possibilities in case-1.

Case-1

| 13C-T  |           |           |      |        |        |
|--------|-----------|-----------|------|--------|--------|
| Person | Months    | Locations |      | Person | Mon    |
|        | May       | Beas      |      |        | Ma     |
|        |           | Kund      |      |        |        |
|        | July      | Vashisht  |      |        | Jul    |
|        |           | Baths     |      |        |        |
| V      | September |           |      |        | Jun    |
|        |           | Solang    |      |        |        |
|        |           | Valley    |      |        |        |
|        |           |           |      |        |        |
|        | December  |           |      |        | Decen  |
|        | June      |           | (ii) | V      | Septer |

| ons    | Person | Months    | Locations |
|--------|--------|-----------|-----------|
|        |        | May       | Beas      |
|        |        |           | Kund      |
| ht     |        | July      | Vashisht  |
|        |        | 0.00      | Baths     |
|        |        | June      |           |
| g l    |        |           | Solang    |
| ,<br>, |        |           | Valley    |
| -      |        | December  | ·         |
| (ii)   | V      | September |           |

s Locations Beas Kund Vashisht Baths Hadimba Temple Solang Valley Rohtang Pass

95.(5)

(i) 🗆 Caca\_2

| Lase-Z |           |           |
|--------|-----------|-----------|
| Person | Months    | Locations |
|        | June      | Solang    |
|        |           | Valley    |
|        | May       | Beas      |
|        |           | Kund      |
|        | July      | Vashisht  |
|        |           | Baths     |
|        |           |           |
| V      | September |           |
|        | December  |           |

From the given conditions, the person who wants to see Hadimba Temple is planning to go on June. Hence case-2 is eliminated. U wants to see Rohtang Pass and he is not planning to go on August and September. Two persons sit between U and T. T does not want to see that location, which is immediate below the person, who is planning to go on July.

Case-1

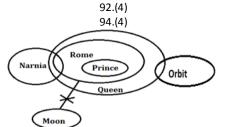
|     |        |           |                   |      | and the second se |         |
|-----|--------|-----------|-------------------|------|---|---------|
|     | Person | Months    | Locations         |      | Person  | Months  |
|     |        | May       | Beas Kund         | 1    |   | May     |
|     | Т      | July      | Vashisht<br>Baths |      | Т   | July    |
|     | v      | September |                   | 1 1  |   | June    |
|     |        |           | Solang<br>Valley  |      |   |         |
|     | U      |           | Rohtang<br>Pass   |      | U   |         |
|     |        | December  |                   | 1.   |   |         |
| 1   |        | June      | Hadimba           | 1 1  |   | Decembe |
| (i) |        |           | Temple            | (ii) | V   | Septemb |
|     |        |           |                   |      |   |         |

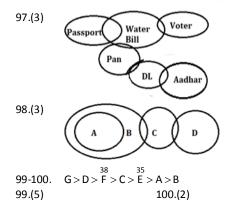
From the given conditions, the person, who wants to see Rohtang Pass is above the person, who wants to see Old Manali (but not immediate above). Hence case-(i) is eliminated and case-(ii) is continued. Four persons sit between R and S. Q sits below R and one person sits between Q and U. U is not planning to go on August and September, Hence Final arrangement are

| September. Hence Final arrangement are- |           |                |  |  |  |  |
|---|-----------|----------------|--|--|--|--|
| Person                                  | Months    | Locations      |  |  |  |  |
| R                                       | May       | Beas Kund      |  |  |  |  |
| Т                                       | July      | Vashisht Baths |  |  |  |  |
| Q                                       | June      | Hadimba        |  |  |  |  |
|   |           | Temple         |  |  |  |  |
| Р                                       | August    | Solang Valley  |  |  |  |  |
| U                                       | February  | Rohtang Pass   |  |  |  |  |
| S                                       | December  | Adventure      |  |  |  |  |
|   |           | Activities     |  |  |  |  |
| V                                       | September | Old Manali     |  |  |  |  |
| S<br>V                                  |           | Activities     |  |  |  |  |

91.(2) 93.(1)







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