IBPS PO Prelims 2021 Memory Based Paper: Based on 4th December 2021 (Solutions)

S1. Ans.(d)

Sol. The correct choice is option (d). The usage of fellow is correct in statement (ii) and statement (iii) while in statement (i), fellow should be replaced with 'follow'.

Fellow means a person in the same position, involved in the same activity, or otherwise associated with another.

S2. Ans.(b)

Sol. The correct choice is option (b). The usage of accent is correct in statement (i) and statement (ii) while in statement (iii), 'accent' should be replaced with 'undo'.

Accent means a distinctive way of pronouncing a language, especially one associated with a particular country, area, or social class.

Accent in statement (ii) means a feature which gives a distinctive visual emphasis to something. Undo means cancel or reverse the effects or results of (a previous action or measure).

S3. Ans.(a)

Sol. The correct choice is option (a). The usage of wind is correct only in statement (ii) while in statement (i), 'wind' should be replaced with 'coordination' and in statement (iii), 'wind' should be replaced by 'significance'. Wind means to wrap.

S4. Ans.(d)

Sol. Among the given options, only (a) and (c) are correct with reference to the context of the given question. While statement (b) is incorrect. Hence, option (d) is the right answer choice.

Refer to the mid-lines of the first paragraph, "The present review attempts to understand the virtual social connectedness, excessive use of digital technology, its consequences and suggest strategies to maintain healthy use of digital technology."

S5. Ans.(c)

Sol. Because it has increased human exposure to long periods of time spent in front of a screen, the usage of digital technology has become more than a source of concern. Thus, we can infer that option (c) is the right answer choice.

Refer to the starting lines of the second paragraph, "The last two decades have seen a bright future in the use of digital technology. It has accelerated human exposure to prolonged screen time which is becoming a growing concern."

S6. Ans.(e)

Sol. Among the given options, both (a) and (b) are correct with reference to the context of the given question. While statement (c) is incorrect based on the information provided in the given passage. Hence, option (e) is the right answer choice.



Refer to the last lines of the second paragraph, "Screen time refers to the amount of time spent and the diverse activities performed online using digital devices. For instance, screen time encompasses both, using digital devices for work purposes as well as for leisure and entertainment."

S7. Ans.(e)

Sol. All of the given statements are correct with reference to the context of the given question. Hence, option (e) is the right answer choice.

Refer to the starting lines of the third paragraph, "The COVID-19 pandemic came with restrictions, regulations and stay-at-home orders. Many individuals could not return to their homes, many stuck in foreign lands and many in solitude. As a result, the run of digital devices has increased manifold across the globe. Irrespective of age, people are pushed to rely on digital platforms. Education, shopping, working, meeting, entertaining and socializing suddenly leaped from offline to online."

S8. Ans.(d)

Sol. Among the given statements, only (a) and (c) are correct with reference to the context of the given question. While statement (b) is incorrect. Hence, option (d) is the right answer choice.

Refer to the last lines of the third paragraph, "At the same time, prolonged screen time has caused concerns related to its impact on physical and mental health. While mindful use of digital devices is linked with well-being, excessive screen time is reported to be associated with a range of negative mental health outcomes such as psychological problems, low emotional stability, and a greater risk for depression or anxiety."

S9. Ans.(e)

Sol. All of the given statements are correct with reference to the information provided in the given passage. Thus, there is no incorrect statement. Hence, option (e) is the right answer choice.

S10. Ans.(c)

Sol. Among the given options, 'flow' is the most appropriate synonym of the highlighted word. Hence, option (c) is the right answer choice. The word 'run' means to pass or cause to pass quickly in a particular direction.

- (a) Coast- the part of the land adjoining or near the sea.
- (b) Slide- move smoothly along a surface while maintaining continuous contact with it.
- (c) Flow- the action or fact of moving along in a steady, continuous stream.
- (d) Swipe- hit or try to hit with a swinging blow.
- (e) Ruin- reduce (a building or place) to a state of decay, collapse, or disintegration.

S11. Ans.(b)

Sol. Among the given options, 'dim' is the most appropriate antonym of the highlighted word. Hence, option (b) is the right answer choice. The word 'bright' means giving out or reflecting much light; shining. While 'dim' means (of a light, colour, or illuminated object) not shining brightly or clearly.

- (a) Lucid- expressed clearly; easy to understand.
- (c) Glare- stare in an angry or fierce way.
- (d) Canny- having or showing shrewdness and good judgement.
- (e) Ablaze- filled with anger or another strong emotion.

S12. Ans.(c)

Sol. Among the given options, statement (c) best illustrates the meaning of the highlighted phrase. Hence, option (c) is the right answer choice. The phrase "blessing in disguise" means an apparent misfortune that eventually has good results.

S13. Ans.(e)

Sol. All of the given words are similar in meaning to the highlighted word. Hence, option (e) is the right answer choice. The word 'shallow' means not exhibiting, requiring, or capable of serious thought.

- (a) superficial-lacking depth of character or understanding.
- (b) frivolous- not having any serious purpose or value.
- (c) trivial- of little value or importance.

S14. Ans.(c)

Sol. The correct sequence is CBA. Therefore, the correct sentence will be" As the **modern** lifestyle continues to evolve; a **phenomenon** that has been further accelerated during the pandemic, is that of 'staying at home."

S15. Ans.(b)

Sol. The correct sequence is BAC. Therefore the correct sentence will be 'The death of five elephants has again **highlighted** the gaps in efforts to **reduce** man-animal **conflicts** in the country.

S16. Ans.(a)

Sol. The correct sequence is ACB. Therefore the correct sentence will be "The leap of **artificial** intelligence in the **education** sector has helped **students** and **educators**.

S17. Ans.(b)

Sol. The correct sequence is BAC. Therefore the correct sentence will be "The additional budget for MGNREGA was among the most **keenly** awaited, as pending payments for wages have **threatened** to cripple **implementation** of the scheme."

S18. Ans.(c)

Sol. The correct sequence is CAB. Therefore the correct sentence will be "The cyclone will briefly gain in **strength** and become a **severe** cyclonic storm, but is unlikely to make a **conventional** landfall.

S19. Ans.(e)

Sol. Sentence (C) will be the introductory sentence as it best presents the theme of the given paragraph which is the history of the introduction of Serbian Railways. The next sentence is (E) as it mentions the inauguration of the first rail line. Further, sentence (E) will be followed by sentence (D) as it further describes the location of part of the rail line which has already been described in statement (E). Now, sentence (D) will be followed by sentence (A) as it further describes the transformation of the type of train engine later. Further, sentence (A) will be followed by sentence (B) because it states the benefits of the train invention to the country's economic development. And it is given that sentence (F) will be the last sentence Therefore, the correct rearrangement of the given sentences would be "CEDABF".

S20. Ans.(d)

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S22. Ans.(b)

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S23. Ans.(a)

Sol. Sentence (C) will be the introductory sentence as it best presents the theme of the given paragraph which is the history of the introduction of Serbian Railways. The next sentence is (E) as it mentions the inauguration of the first rail line. Further, sentence (E) will be followed by sentence (D) as it further describes the location of part of the rail line which has already been described in statement (E). Now, sentence (D) will be followed by sentence (A) as it further describes the transformation of the type of train engine later. Further, sentence (A) will be followed by sentence (B) because it states the benefits of the train invention to the country's economic development. And it is given that sentence (F) will be the last sentence Therefore, the correct rearrangement of the given sentences would be "CEDABF".

S24. Ans.(d)

Sol. The highlighted phrase in the given sentence is incorrect. Because noun 'incomes' is plural so we need plural verb 'have' here therefore option (b) is also incorrect. Option (a) is incorrect because we use 'who' as relative pronoun for living beings. Option (c) 'was been' is grammatically incorrect. Therefore option (d) is correct choice.

S25. Ans.(a)

Sol. The highlighted phrase in the given sentence is incorrect. The correct replacement should be "will visit". The sentence is in simple future tense. Therefore, the structure should be Subject+ will + V1.

S26. Ans.(d)

Sol. When a phrase comes between the subject and the verb, remember that the verb still agrees with the subject, not the noun or pronoun in the phrase following the subject of the sentence. Since the subject "manager" is singular, the verb following should also be singular i.e., 'is'.

S27. Ans.(a)

Sol. 'Diabetes' is a non-countable noun and all Noncount nouns take a singular verb. Thus, 'affect' should be replaced by 'affects'.

S28. Ans.(b)

Sol. The error lies in part (B) of the sentence. We invert the subject and verb if not + a prepositional phrase or a clause is in the initial position. The correct phrase should be "did I think I would be".

S29. Ans.(e)

Sol. Future Perfect Tense is used to refer to an action, which would be completed at a time later on. Since the sentence correctly follows the structure of future perfect tense, there is no error in it.

S30. Ans.(d)

Sol. When two events of past are mentioned. The event that occurred earlier will be in past perfect tense, while later event should follow the structure of simple past tense. Therefore, 'had' should be eliminated in part (D) of the sentence.

S31. Ans.(a)

Sol. Pattern of series -

$$8 \times 1.5 = 12$$

$$12 \times 2.5 = 30$$

$$30 \times 3.5 = 105$$

$$105 \times 4.5 = 472.5$$

$$472.5 \times 5.5 = 2598.75$$

S32. Ans.(d)

Sol. Pattern of series –

$$9 \times 2 + 1 = 19$$

$$19 \times 2 + 1 = 39$$

$$39 \times 2 + 1 = 79$$

$$79 \times 2 + 1 = 159$$

$$159 \times 2 + 1 = 319$$



S33. Ans.(e)

Sol. Pattern of series -

Subtraction of consecutive prime number -

$$580 - 23 = 557$$

$$557 - 29 = 528$$

$$528 - 31 = 497$$

$$497 - 37 = 460$$

$$460 - 41 = 419$$

S34. Ans.(d)

Sol. Pattern of series –

$$81 - 3^2 = 72$$

$$72 + 4^3 = 136$$

$$136 - 5^2 = 111$$

$$111 + 6^3 = 327$$

$$327 - 7^2 = 278$$

S35. Ans.(c)

Sol. Pattern of series -

S36. Ans.(c)

Sol. Total earning of shop D =
$$(90 \times 2 \times \frac{3}{5} \times 75) + (90 \times 2 \times \frac{2}{5} \times 30)$$

= $8100 + 2160 = 10260$ Rs.

S37. Ans.(d)

Sol. Total books sold by shop B =
$$60 \times 2 \times \frac{1}{4} = 30$$

Total pens sold by shop C =
$$75 \times 2 \times \frac{3}{5} = 90$$

Required percentage =
$$\frac{90-30}{90} \times 100 = 66\frac{2}{3}\%$$

S38. Ans.(e)

Sol. Total books sold by shop A =
$$100 \times 2 \times \frac{4}{5} = 160$$

Total books sold by shop
$$C = 75 \times 2 \times \frac{2}{5} = 60$$

Average number of books sold by shop A & C =
$$\frac{160+60}{2}$$
 = 110

Total pens sold by shop B =
$$60 \times 2 \times \frac{3}{4} = 90$$

Required difference =
$$110 - 90 = 20$$

S39. Ans.(b)

Sol. Total pens sold by shop $X = 100 \times 2 \times \frac{1}{5} \times \frac{150}{100} = 60$

Total books sold by shop $X = 75 \times 2 \times \frac{2}{5} - 20 = 40$

Required percentage = $\frac{60-40}{40} \times 100 = 50\%$

S40. Ans.(b)

Sol. Total pens sold by shop A = $100 \times 2 \times \frac{1}{5} = 40$

Total books sold by shop C = $75 \times 2 \times \frac{2}{5} = 60$

Required ratio = 40:60=2:3

S41. Ans.(d)

Sol. I.
$$x^2 + 8x - 5x - 40 = 0$$

$$x(x+8) - 5(x+8) = 0$$

$$(x+8)(x-5)=0$$

$$x = -8.5$$

II.
$$y^2 - 11y + 30 = 0$$

$$y^2 - 6y - 5y + 30 = 0$$

$$y(y-6) - 5(y-6) = 0$$

$$(y-6)(y-5)=0$$

$$y = 5, 6$$

So,
$$y \ge x$$

S42. Ans.(e)

Sol. I.
$$2x^2 + 10x - 3x - 15 = 0$$

 $2x(x+5) - 3(x+5) = 0$

$$2x(x+5) - 3(x+5) = 0$$

$$(x+5)(2x-3)=0$$

$$x = -5, \frac{3}{2}$$

II.
$$3y^2 + 9y - 4y - 12 = 0$$

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

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

$$y = -3, \frac{4}{3}$$

So, no relation can be established.

S43. Ans.(c)

Sol. II.
$$2x^2 + 26x + 84 = 0$$

$$x^2 + 13x + 42 = 0$$

$$x^2 + 6x + 7x + 42 = 0$$

$$x(x+6) + 7(x+6) = 0$$

$$(x+6)(x+7) = 0$$

$$x = -6, -7$$

I.
$$y^2 + 7y + 8y + 56 = 0$$

 $y(y + 7) + 8(y + 7) = 0$
 $(y + 7)(y + 8) = 0$
 $y = -7, -8$
So, $x \ge y$

S44. Ans.(e)

Sol. I. $x^2 - 17x + 13x - 221 = 0$ x(x-17) + 13(x-17) = 0(x-17)(x+13)=0x = -13, 17II. $y^2 - 12y + 11y - 132 = 0$ y(y-12) + 11(y-12) = 0(y-12)(y+11)=0v = -11, 12So, no relation can be established

\$45. Ans.(b)

Sol. I. $x^2 - 7x - 6x + 42 = 0$ x(x-7)-6(x-7)=0(x-7)(x-6) = 0x = 6, 7II. $y^2 - 9y - 8y + 72 = 0$ y(y-9) - 8(y-9) = 0(y-8)(y-9)=0y = 8.9clearly, x < y

\$46. Ans.(e)

Sol. Profit ratio of Jaya, Shivani & Riya = (5000×6) : (6000×12) : (3000×6) = 5:12:3

ATQ -

5 - 3 = 200

1 = 100 Rs.

So, 12 = 1200 Rs.

\$47. Ans.(d)

Sol. Let radius of cylinder = 7xAnd, height of cylinder = 6xATO - $2 \times \frac{22}{7} \times 7x \times 6x = 1056$

Total surface area of cylinder = $2 \times \frac{22}{7} \times 14 \times (12 + 14) = 2288 \text{ cm}^2$

S48. Ans.(b)

Sol. Let monthly income of Ram = 100x

So, total amount spends on Rent = $100x \times \frac{20}{100} = 20x$

Total amount spends on food = $(100x - 20x) \times \frac{10}{100} = 8x$

Total amount spends on travel = $(100x - 20x) \times \frac{30}{100} = 24x$

Amount he gives to his mother = $(100x - 20x) \times \frac{2}{5} = 32x$

ATQ -

$$32x - 24x = 11200$$

$$x = 1400$$

So, monthly income of Ram = 140000 Rs.

S49. Ans.(b)

Sol. Let speed of car = 10x km/hr

So, speed of bike = $10x \times \frac{90}{100} = 9x \text{ km/hr}$

ATQ -

$$\frac{300}{10x} - \frac{180}{9x} = 2$$

$$x = 5$$

Speed of bike = 45 km/hr

\$50. Ans.(b)

Sol. Let present age of Aman & David be 2s and 5s respectively

ATQ -

$$(2s + 10) + (5s + 10) = 69$$

$$7s = 49$$

$$s = 7$$
 years

Required difference = $(5 - 2) \times 7 = 21$ years

S51. Ans.(e)

Sol. Total milk in mixture initially = $95 \times \frac{15}{19} = 75$ *liters*

Total water in mixture initially = $95 \times \frac{4}{19} = 20$ *liters*

ATQ -

$$\frac{75 - X \times \frac{15}{19}}{20 - X \times \frac{4}{19} + 18} = \frac{3}{2}$$

$$X = 38$$
 liters



S52. Ans.(a)

Sol. Let speed of boat in still water and speed of stream be x km/hr and y km/hr respectively

$$\frac{(x+y)}{(x-y)} = \frac{5}{3}$$

$$3x + 3y = 5x - 5y$$

$$2x = 8y$$

$$x: y = 4:1$$

ATQ

Let speed of boat in still water = 4s km/hr

And speed of stream = s km/hr

$$\frac{30}{3s} = 5$$

s = 2 km/hr

Required time =
$$\frac{40}{(5\times2)}$$
 = 4 hours

Alternate method

$$\frac{upstream \, speed}{doenstream \, speed} = \frac{3x}{5x}$$

Upstream speed of boat=
$$\frac{30}{5} = 6km / hr$$

$$3x=6=>x=2$$

Downstream speed= $5x=5\times2=10$ km /hr

Time taken by boat in downstream= $\frac{40}{10} = 4 \ hrs$

S53. Ans.(e)

Sol. Required sum =
$$8000 \times \frac{9 \times 3}{100} + 8000 \times \frac{8 \times 4}{100}$$

= $2160 + 2560 = \text{Rs } 4720$

S54. Ans.(d)

Sol. Time taken by A to complete the whole work = 28 days.

Time taken by B to complete the whole work = $12 \times \frac{7}{2} = 42$ days.

Let the efficiency of C = x units/day

ATQ,

$$12\left(\frac{1}{28} + \frac{1}{42}\right) + 3x = 1$$

$$x = \frac{2}{21}$$
 unit/day.

Required time = $\frac{21}{2}$ = 10.5 days.

S55. Ans.(a)

Sol. Let cost price of table = 100a

So, selling price of table = $100a \times \frac{120}{100} = 120a$

And cost price of chair = 120a

Then, selling price of chair = $120a \times \frac{125}{100} = 150a$

ATQ -

$$(120a + 150a) - (100a + 120a) = 400$$

$$a = 8 Rs.$$

So, selling price of both articles together = $(120 \times 8 + 150 \times 8) = 2160$ Rs.

S56. Ans.(b)

Sol. Commerce students in Northern zone = $\left(4000 \times \frac{25}{100}\right) - 400$

= 600

Total students in Southern zone = $\left(4000 \times \frac{15}{100}\right)$

=600

Required \% =
$$\frac{600-600}{600} \times 100$$

= 0

\$57. Ans.(e)

Sol. Commerce students in Western zone = $\left(4000 \times \frac{30}{100}\right) - 750$

= 450

Science students in Northern zone, Eastern zone and Southern zone = 400 + 310 + 430

= 1140

Required difference = 1140 - 450

=690

S58. Ans.(a)

Sol.

Commerce students in Central zone = $\frac{4000 \times 20}{100}$ - 600

= 200

Total monthly library fee = $600 \times 80 + 200 \times 60$

=48000+12000

= Rs. 60000

S59. Ans.(a)

Sol. Arts students in Western zone = $\left(4000 \times \frac{30}{100}\right) \times \frac{7}{5}$

= 1680

Commerce students in Southern zone = $\left(4000 \times \frac{15}{100}\right) - 430$

= 170

Required difference = 1680 - 170

= 1510

S60. Ans.(e)

Sol. Commerce students in Eastern Zone = $\left(4000 \times \frac{10}{100}\right) - 310$

= 90

Required ratio = 750:90

= 25:3

Solutions (61-65):

Total number of bag sold by A, B, $C \rightarrow 1080$

Let total bag sold by shop B be 4x.

Shop A sold \rightarrow 5x (paper + fabric) bag.

Shop B sold equal no. of paper and fabric bag =

No. of paper bag sold by shop B = 2x

No. of fabric bag sold by shop B = 2x.

No. of fabric bag sold by $A = \frac{2x}{3} = x$

Number of fabric bag sold by C = 0.5x

Number of paper bag sold by $C = x \times \frac{50}{100} = 0.5x$

ATQ.

$$4x + x + 2x + 2x + 0.5x + 0.5x = 1080$$

$$x = 108$$

Shop	Paper	Fabric	Total
A	432	108	540
В	216	216	432
С	54	54	108
Total	702	378	1080

S61. Ans.(a)

Sol. Required ratio =
$$\frac{216}{54} = \frac{4}{1}$$

S62. Ans.(d)
Sol. Required percentage =
$$\frac{108-54}{54} \times 100$$
= 100%

S63. Ans.(b)

Sol. Required difference
$$=$$
 $\frac{702}{3} - \frac{378}{3}$ $=$ 108

S64. Ans.(d)

Sol. Required difference =
$$(216 + 54) - (108 + 54)$$

$$= 270 - 162$$

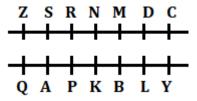
$$= 108$$

S65. Ans.(c)

Sol. Required sum =
$$108 \times 15 + 432 \times 10$$

$$= Rs. 5940$$





S66. Ans.(c)

S67. Ans.(c)

S68. Ans.(a)

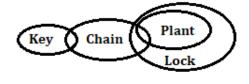
S69. Ans.(e)

S70. Ans.(d)

S71. Ans.(d)

S72. Ans.(a)

Sol.



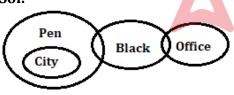
S73. Ans.(e)

Sol.



S74. Ans.(d)

Sol.



Solutions (75-78):

Bangalore	Pune	Mumbai
В	P	Н
Ι	J	T
L		K
		M

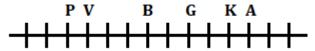
S75. Ans.(e)

\$76. Ans.(d)

S77. Ans.(b)

S78. Ans.(c)

Solutions (79-81):



\$79. Ans.(a)

S80. Ans.(d)

S81. Ans.(e)

S82. Ans.(a)

Sol. I. A > X (True) II. Q > N (False)

S83. Ans.(c)

Sol. I. M > G (False) II. M = H (False)

S84. Ans.(b)

Sol. I. L < F (False) II. C > D (True)

S85. Ans.(a)

Sol. I. N > O (True) II. A > O (False)

Solutions (86-90):

Floor	Flat-A	Flat-B
3	U-Latvia	Q-Serbia
2	P-Russia	T-Kosovo
1	S-Norway	R-Greece



\$87. Ans.(a)

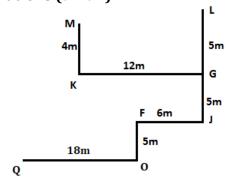
S88. Ans.(d)

S89. Ans.(e)

S90. Ans.(b)

S91. Ans.(a)

Solutions (92-94):



S92. Ans.(d)

S93. Ans.(c)

S94. Ans.(b)

Solutions (95-99):

D M K O L

Green Yellow Red Purple White

S95. Ans.(a)

S96. Ans.(c)

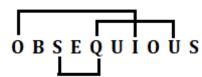
S97. Ans.(d)

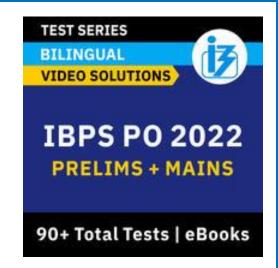
S98. Ans.(b)

S99. Ans.(a)

S100. Ans.(d)

Sol.









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