IBPS Clerk Prelims 2020 Memory Based Mock Paper (Based on 5th December) - Solutions

S1. Ans.(a)
Sol. Only statement (a) is correct.
For statement (a) Refer to the 2nd paragraph, “. Sleep allows us to consolidate and store memories, process emotional experiences, replenish glucose (the molecule that fuels the brain), and clear out beta-amyloid (the waste product that builds up in Alzheimer’s patients and disrupts cognitive activity).”
For statement (b) refer to the 1st paragraph, “An adult requires 7 to 8 hours of peaceful and quality sleep per day.”
For statement (c) refer to the last paragraph, “The simplest and easiest way to treat sleep deprivation is sleep more.”

S2. Ans.(b)
Sol. Refer to the last sentence of the 3rd paragraph “During sleep, regeneration of neurons happens in the cerebral cortex. Thus, in a sleep deprived individual the brain fails to function optimally.” Hence, option (b) is correct.

S3. Ans.(d)
Sol. Bounce back means to return quickly to a normal condition after a difficult situation.
Drop back means fall back or get left behind.
Break out means escape.
Come forward means volunteer oneself for a task or post or to give evidence about a crime.
Fall out means have an argument.

S4. Ans.(b)
Sol. Among the given statements only statement (b) is correct.
For statement (b) refer to the 1st paragraph “Sleep deprivation can be defined as inability to complete the sufficient sleep-time required by the person.”
All the other statements are factually incorrect.

S5. Ans.(e)
Sol. Refer to the last paragraph, “Fighting stress, eating a healthy and a balanced diet, avoiding alcohol are some other dos for a good night’s sleep. Certain medications can also interfere with one’s sleep thus consult your medical professional about the same. Exercising or indulging in an activity such as jogging, walk or swimming can also help one sleep better. Avoid usage of electronic gadgets before bedtime as they can interfere with one’s sleep. Spending time in natural sunlight, Yoga, meditation and breathing exercises can also help one sleep better at night.”
S6. Ans. (b)
Sol. Sufficient means enough; adequate.

S7. Ans. (c)
Sol. Induce means bring about or give rise to.
Encourage means stimulate the development of (an activity, state, or belief).

S8. Ans. (b)
Sol. Replenish means restore (a stock or supply) to a former level or condition.

S9. Ans. (a)
Sol. Replace ‘between’ by ‘into’. “Into” is used to show when a person or thing is changing from one form or condition to another:

S10. Ans. (a)
Sol. The past perfect tense in a sentence or conversation describes an event that happened in the past before another event in the simple past tense was completed in the past. Thus the correct phrase should be “She stayed up”.

S11. Ans. (c)
Sol. ‘were; should be replaced by ‘was’. Words joined to a singular subject by ‘with’, ‘together with’, ‘in addition to’, ‘or’, ‘as well as’, ‘besides’ etc. The verb must take place with the first subject of the sentence.

S12. Ans. (e)
Sol. The sentence is grammatically correct.

S13. Ans. (d)
Sol. ‘was’ should be replaced by ‘is’. Zero conditional sentences refer to the general truth about a situation. These sentences state that one condition always results in the same outcome. Note that both clauses should be in the present tense.

S14. Ans. (b)
Sol. Replace “too” with “to”
To is a preposition with several meanings, including “toward” and “until.”
Too is an adverb that can mean “excessively” or “also.”

S15. Ans. (a)
Sol. Reflexive pronouns can also act as intensive pronouns, but the function and usage are different. An intensive pronoun emphasizes its antecedent. Hence, the correct phrase is “they themselves had”. Thus, option (a) is correct.

S16. Ans. (d)
Sol. The relative pronoun is the subject/object of the relative clause, so we do not repeat the subject/object. Here, that is the object of built, so we don’t need ‘it’.
S17. Ans.(e)
Sol. The given sentence is grammatically correct.

S18. Ans.(d)
Sol. Option (d) is the correct choice.
“Randomly”: in a way that happens, is done, or is chosen by chance rather than according to a plan.
All the other words are either grammatically or contextually incorrect.
Cautiously: in a careful and well-considered way that avoids risk
Anxiously: in a way that shows you are worried or nervous

S19. Ans.(b)
Sol. “Adapted” is the correct choice.
Adapted: to change something so that you can use it in a different situation
Concise: giving a lot of information in a few words; brief
Immense: very big or great
Prohibited: to say that something is not allowed by law; to forbid

S20. Ans.(b)
Sol. Option (b) is the correct choice.
Subdued: quieter and with less energy than usual
Evolved: to develop or to make something develop gradually, from a simple to a more advanced form
Refine: to improve something by changing little details
Surge: a sudden strong movement in a particular direction by a large number of people or things

S21. Ans.(c)
Sol. Option (c) is the correct choice.
Meaning of some other words:
Sustained: to make something continue for a long period of time without becoming less
Aligned: to arrange things in a straight line or so that they are parallel to something else

S22. Ans.(b)
Sol. Option (b) is the correct choice.
Recited-- to say aloud a piece of writing, especially a poem or a list, from memory
Elaborate-- very complicated; done or made very carefully

S23. Ans.(b)
Sol. “BAC” is the correct sequence.
The U.P. ordinance not only violates guaranteed fundamental rights but is also in conflict with existing personal laws

S24. Ans.(d)
Sol. “CBA” is the correct sequence.
The abrupt changes in the sector brought in through the three laws have aggravated the trust deficit of the government.
S25. Ans. (d)
Sol. “BCA” is the correct sequence
The Chinese Communist Party initially embraced nationalism as a co-option strategy in the aftermath of the Tiananmen Square massacre.

S26. Ans. (e)
Sol. “CBA” is the correct sequence.
The Supreme Court has been asking States to produce quantifiable data to justify their levels of reservation.

S27. Ans. (e)
Sol. Option (e) - CEDAB is the correct sequence for the given question.
“Discontent over the new farm laws is a result of sidestepping debate and discussion in Parliament.”

S28. Ans. (c)
Sol. Option (c) - EDCAB is the correct sequence for the given question.
“It is crucial to define the outcomes we are expecting from population-level vaccination plans for COVID-19”

S29. Ans. (e)
Sol. Option (e) - ABCED is the correct sequence for the given question.
WHO must work alongside China in quickly uncovering the origins of the virus.

S30. Ans. (a)
Sol. DEABC is the correct sequence for the given question.
Only information bearing a nexus to public activity should be available to the public.

S31. Ans. (a)
Sol. Let speed of train B be s km/hr
ATQ –
20(36 + s) \times \frac{5}{18} = 600
3600 + 100s = 10800
100s = 7200
s = 72 km/hr

S32. Ans. (b)
Sol. Profit ratio of A to B = \left( X \times 4 + 2X \times 8 \right) : \left( 2X \times 8 \right) = 20X : 16x = 5: 4
So, profit of A = 13950 \times \frac{5}{9} = 7750 Rs.

S33. Ans. (e)
Sol. Let amount invested by man = 10x Rs.
Equivalent CI for two years at the rate of 20% p.a. = 20 + 20 + \frac{20 \times 20}{100} = 44%
Equivalent CI for two years at the rate of 20% p.a. = 10 + 10 + \frac{10 \times 10}{100} = 21%
ATQ
\frac{10x \times 2 \times 44}{100} + \frac{10x \times 3 \times 21}{5 \times 100} = 1208
\frac{176x}{100} + \frac{126x}{100} = 1208 \Rightarrow x = 400 Rs.
Required amount = 4000 Rs.
S34. Ans. (a)
Sol. ATQ –
2(l + 18) = 84
2l = 48
l = 24 meters
So, measurement of side of square = 72 – 24 = 48 meters

S35. Ans. (e)
Sol. Ratio of efficiency of A, B & C = 3 : 2 : 4
So, let total work = (3x + 2x + 4x) × 8 = 72x unit
Required days = 72x × 3/4 × 1/3x = 18 days

S36. Ans. (d)
Sol. I. 2x² – 2x - x + 1 = 0
2x(x - 1) – 1(x - 1)
x = 1/2, 1
II. 2y² – 2y – 3y + 3 = 0
2y(y - 1) – 3(y - 1) = 0
y = 3/2, 1
x ≤ y

S37. Ans. (b)
Sol. I. x² + 10x + 11x + 110 = 0
x(x + 10) + 11(x + 10) = 0
x = -10, -11
II. y² + 9y + 8y + 72 = 0
y(y + 9) + 8(y + 9)
y = -9, -8
x < y

S38. Ans. (d)
Sol. I. x = ±2
II. y² – 2y – 4y + 8 = 0
y(y – 2) – 4(y – 2) = 0
y = 2, 4
x ≤ y

S39. Ans. (e)
Sol. I. x² + 9x – 22 = 0
⇒ x² + 11x – 2x – 22 = 0
⇒ (x + 11) (x – 2) = 0
⇒ x = -11, 2
II. 2y² – 7y + 6 = 0
⇒ 2y² – 4y – 3y + 6 = 0
⇒ 2(y–2)–3(y–2) = 0
⇒ (y–2) (2y–3) = 0
⇒ y = 2, 3/2
No relation
S40. Ans.(e)
Sol. I. \(6x^2 + 5x + 1 = 0\)
\[6x^2 + 3x + 2x + 1 = 0\]
\[3x (2x + 1) + 1 (2x + 1) = 0\]
\[x = \frac{-1}{2} \text{ or } -\frac{1}{3}\]
II. \(15y^2 + 11y + 2 = 0\)
\[15y^2 + 6y + 5y + 2 = 0\]
\[3y (5y + 2) + 1 (5y + 2) = 0\]
\[\therefore y = \frac{2}{5} \text{ or } -\frac{1}{3}\]
\[\therefore \text{ no relation can be established}\]

S41. Ans.(b)
Sol. Required population = \(15000 \times 0.9 \times 1.2\)
= 16200

S42. Ans.(b)
Sol. Let the CP of shirt be Rs. 100x
Then MP = Rs. 150x
SP = \(150x \times \frac{8}{9} \times \frac{9}{10}\) = Rs. 120x
Profit = Rs. 20x
Discount given =Rs. 30x
ATQ,
10x = 200
\[\Rightarrow x = 20\]
MP = Rs 3000

S43. Ans.(b)
Sol. Let the speed of boat in still water be \(x\) km/hr and that of stream be \(y\) km/hr.
ATQ
\((x + y) - (x - y) = 5\)
\[\Rightarrow y = 2.5 \text{ km/hr}\]
x = \(2.5 \times \frac{19}{5} = 9.5 \text{ km/hr}\)
Required time = \(\frac{42}{(9.5+2.5)} + \frac{31.5}{(9.5-2.5)} = 8\) hr

S44. Ans.(a)
Sol. Let initial quantity of liquid P and Q in container be 5x & 3x respectively
So,
\[\frac{5x - \frac{5 \times 16}{8x}}{8x} = \frac{1}{2}\]
5x - 10 = 4x
x = 10
Initial quantity of mixture = \(5 + 3 \times 10 = 80\) liter
S45. Ans.(b)
Sol. Let present age of B be 5x years.
So, present age of A = 5x × \(\frac{8}{5}\) = 8x years
Now, present age of C = 35 × 2 - 5x = (70 - 5x) years
ATQ,
(8x - 5) + (5x - 5) = 55
x = 5
Required difference = (70 - 5x) - 8x = 5 years

S46. Ans.(a)
Sol. Required percentage = \(\frac{40-32}{40}\) × 100 = 20%

S47. Ans.(c)
Sol. Required sum = (28 + 12) + (38 + 15) = 93

S48. Ans.(a)
Sol. Required average = \(\frac{50+32+38}{3}\) = 40

S49. Ans.(b)
Sol. Let total videos shared by E = x
So, total photos shared by E = (x + 4)
ATQ –
x + x + 4 = 44
2x = 40
x = 20

S50. Ans.(a)
Sol. Total photos shared by B = 28 × \(\frac{5}{14}\) = 10

S51. Ans.(d)
Sol. (? ÷ 5 ÷ 7) × 14 = 308
? = 22 × 35
? = 770

S52. Ans.(b)
Sol. ?³ + 144 = 360
?³ = 216
? = 6

S53. Ans.(b)
Sol. \(\frac{128}{2} + \frac{4}{2} × 4 = ? + 10\)
64 + 8 = ? + 10
? = 62
S54. Ans.(c)
Sol. $\frac{11}{11} + 9 + ? = 27$
$1 + 9 + ? = 27$
$? = 17$

S55. Ans.(b)
Sol. $196 + 179 + 25 = (?)^2$
$(?)^2 = 400$
$? = 20$

S56. Ans.(e)
Sol. $28.5 \times 34 + 2320 \div 8 = (36)^2 - ?$
$969 + 290 = 1296 - ?$
$1259 = 1296 - ?$
$? = 1296 - 1259 = 37$

S57. Ans.(d)
Sol. $? = 47 \times 27 + 15600 \div 8 + 181$
$= 1269 + 1950 + 181$
$= 3400$

S58. Ans.(c)
Sol. $? = 112.5 \times 5 + 4560 \div 6 - 175 \times 7$
$= 562.5 + 760 - 1225$
$= 1322.5 - 1225$
$= 97.5$

S59. Ans.(c)
Sol. $80\%$ of $? = \sqrt{250 \times 44 + \frac{40 \times 8500}{100}}$
$\Rightarrow \frac{80}{100} \times ? = \sqrt{11000 + 3400}$
$\Rightarrow ? = \sqrt{14400} \times \frac{10}{8}$
$\Rightarrow ? = 120 \times \frac{10}{8} = 150$

S60. Ans.(a)
Sol. $? \times \frac{40}{24} \times 27 = \frac{594}{115} \times \frac{2300}{264}$
$\Rightarrow ? \times 45 = 45$
$\Rightarrow ? = 1$

S61. Ans.(b)
Sol. $? + 13 \times 50 = 420 + \frac{45}{100} \times 800 + 220$
$\Rightarrow ? + 650 = 420 + 360 + 220$
$\Rightarrow ? = 1000 - 650 = 350$
S62. Ans.(d)
Sol.
\[
\frac{12}{100} \times ? + \frac{1}{8} \times 960 = 192
\]
\[
\frac{12}{100} \times ? = 192 - 120
\]
\[
\frac{12}{100} \times ? = 72
\]
? = 600

S63. Ans.(e)
Sol.
\[
15 \times ? + \frac{20}{100} \times 450 = 360
\]
\[
15 \times ? = 360 - 90
\]
\[
15 \times ? = 270
\]
? = 18

S64. Ans.(a)
Sol.
\[
\frac{3}{4} \times \frac{3}{4} \times \frac{8}{9} \times 1800 = ? + 600
\]
\[
? = 900 - 600
\]
? = 300

S65. Ans.(e)
Sol.
\[
\frac{?}{100} \times 900 + 500 = 788
\]
\[
\frac{288 \times 100}{900}
\]
? = 32

Solutions (66-70):

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S66. Ans.(e)
S67. Ans.(c)
S68. Ans.(a)
S69. Ans.(b)
S70. Ans.(d)
S71. Ans. (a)
Sol.

BACKGROUND
ABBJFQPVMC

Solutions (72-76):
A > E > F > C > B > D
34 27 17

S72. Ans. (a)
S73. Ans. (b)
S74. Ans. (d)
S75. Ans. (d)
S76. Ans. (b)

S77. Ans. (a)
Sol. I. E < F (True)  II. Q ≥ T (False)

S78. Ans. (c)
Sol. I. T < G (False)  II. C = G (False)

S79. Ans. (b)
Sol. I. K > T (False)  II. R > F (True)

S80. Ans. (e)
Sol. I. C > G (True)  II. K < D (True)

S81. Ans. (d)
Sol.

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S82. Ans. (c)
S83. Ans. (b)
S84. Ans. (a)
S85. Ans. (e)
S86. Ans. (c)

S87. Ans. (c)
Sol.

S88. Ans. (e)
Sol.

S89. Ans. (b)
Sol.

S90. Ans. (d)
Sol.
Solutions (91-95):

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S91. Ans. (e)
S92. Ans. (d)
S93. Ans. (d)
S94. Ans. (b)
S95. Ans. (b)
S96. Ans. (c)
Sol.

CHRISTMAS

S97. Ans. (b)
Sol. “7 2”
S98. Ans. (c)
Sol. “2”
S99. Ans. (b)
Sol. “5”
S100. Ans. (b)
Sol. “1 4”