IBPS RRB PO (MAIN) MOCK TEST-116 (SOLUTION)

REASONING

(1–5) :

Floor	Person	Subject
8	Jack	Humanities
7	Ebrahim	Computers Science
6	Kelvin	History
5	Daniel	Geography
4	Hiccup	Mathematics
3	Fana	Biotechnology
2	Ishan	Biology
1	George	Physics

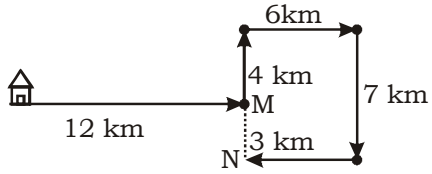
1. (3) 2. (2) 3. (5)
4. (4) 5. (5)

(6–10) :

Person	Month	Days
Yacoub	March	10^{th}
Xevier	March	27^{th}
Willy	June	10^{th}
Neeru	June	27^{th}
Zampa	October	10^{th}
Ombir	October	27^{th}
Manoj	November	10^{th}
Vipin	November	27^{th}

6. (4) 7. (1) 8. (4)
9. (4) 10. (3)

11. (5)



(12-14) :

12. (4) $E \geq D \geq F > G$

I. $F < E$
II. $F = E$] either or

either conclusion I or II is true.

13. (1) $N \geq O < S, N \geq O > R$

I. $S < N \rightarrow$ false

II. $N > R \rightarrow$ true

Only conclusion II is true.

14. (5) $P \leq T < M \leq K < L = Y$

I. $P > Y \rightarrow$ false

II. $T > L \rightarrow$ false

None conclusion is true.

15. (5) cannot be determined

(16-20) :

16. (3) **From I :–** Find the rank from other end, we need to know the total number of student in the class – So I is sufficcient
From II :– So we can find total student = (11 + 38 – 1) = 48 student
Both statement alone are sufficient to answer the question.

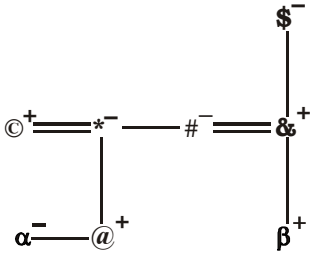
17. (4) **From I :–** $(K + T)_{age} > (S)_{age}$
From II :– $(R + K)_{age} < (S)_{age}$
from statement I and II, we conclude that who is oldest is not decided thus statement I and II together are not sufficeint to answer the question

18. (3) Clearly, each statement show that O is sitting opposite to M or M is partner of O.

19. (5) **From I :-** $(Punit)_{age} = (Vipul)_{age} = (Komal)_{age}$ .....(i)
From II :- Vipul + Komal + Anup = 32 ....(ii)
$(Vipul)_{age} + (Komal)_{age} = (Anup)_{age}$ .....(iii)
from equation II and III
$2\ (Anup)_{age} = 32$
$(Anup)_{age} = 16$
From equation I
$(2\ Komal)_{age} = 16$
$(Komal)_{age} = 8$
$(Vipul)_{age} = 8$
$(Punit)_{age} = 8$
Clearly, punit Age is = 8. Both statement I and II together are sufficient to answer the question.

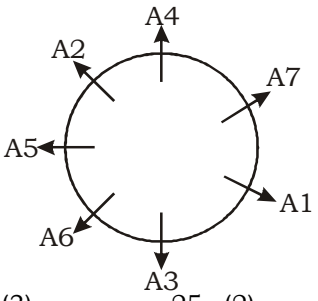
20. (5) ATQ
A _ B _ E or _ ABE _
or E _ B _ A or _ EBA _
From I :– D, A, B, E
From II :– D A B E C
From I and II clearly B is in the middle
So statement I and II together are sufficient to answer the question.

(21-23) :



21. (2) 22. (4) 23. (2)

(24–28) :



24. (3) 25. (2) 26. (4)
27. (4)

(28–29) :

'the company struck omong' 'Z6X F2G H4Z L5H'

'Under that relevant part' → 'U3G, U3K U7I S4F'

'For extreme year date' → 'F6V F3V T4B S2V'

ATQ,

(Total no. of letter –1)

Company → Z 6 X → Reverse of first letter

→ immediate succeed of last letter

Immediate succeeding letter

28. (1) 'Refuses' → T 6 I

reverse of first letter

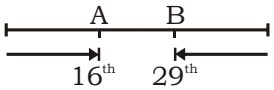
29. (3) Oxford → E 5 L

(30–34) :

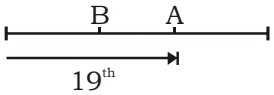
Days	Player	Run
Monday	Kohli	51
Tuesday	Rahane	26
Wednesday	Kedar Jadav	5
Thursday	Finch	16
Friday	Smith	9
Saturday	Dhawan	4
Sunday	Warner.	6

30. (2) 31. (1) 32. (5)
33. (1) 34. (1)

35. (2)



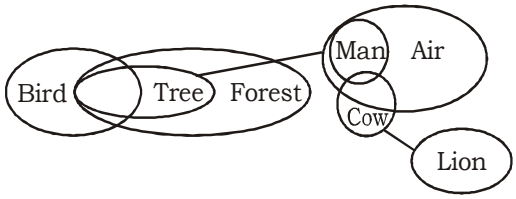
Interchange their position



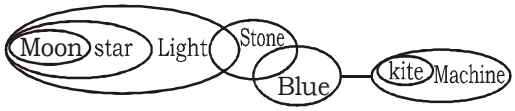
Total girl in the row
= 19 + 23 = 42 girls

(36 –40) :

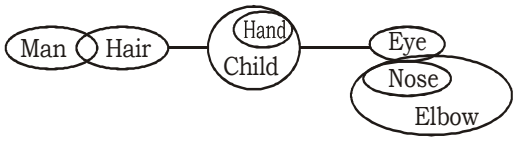
36. (4)



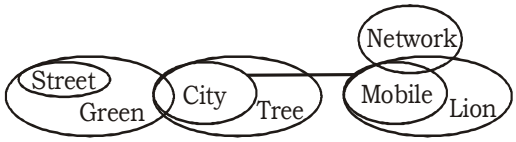
37. (5)



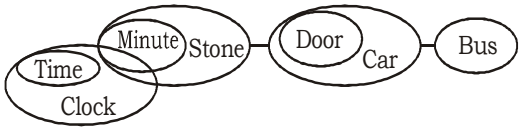
38. (5)



39. (5)



40. (4)



MATHS

(41-45) :

41. (3) 41% of 601 – 250.17 = 7 – 77% of 910

$$\Rightarrow \frac{41}{100} \times 600 - 250 \approx ? - \frac{77}{100} \times 910$$

$$\Rightarrow 246 - 250 = ? - 700.7$$

$$\Rightarrow ? = -4 + 700.7$$

$$= 696.7 \approx 700$$

42. (1) $(41.33)^2 + (7.96)^2 - (22.02)^2 = ?$

$$\Rightarrow ? \approx (41)^2 + (8)^2 - (22)^2$$

$$= 1681 + 64 - 484$$

$$= 1745 - 484 = 1261 \approx 1280$$

43. (4) 29.8% of 260 + 60.01% of 510 – 103.57 = ?

$\Rightarrow ? \approx \frac{30}{100} \times 260 + \frac{60}{100} \times 510 - 104$

$= 78 + 306 - 104$

$= 280$

44. (3) $5^2 \times 255 \div 5 - 1116 = ?$

$\Rightarrow ? = \frac{25 \times 255}{5} - 1116 = 159$

45. (4) 35% of 740 – 35% of 520 = ?

$\Rightarrow ? = \frac{35}{100} \times (740 - 520)$

$= \frac{35}{100} \times 220 = 77$

(46 – 50) :

46. (3) Required total

$= (30 + 35 + 35 + 40 + 45 + 55) \times 1000 \times \frac{75}{100}$

$= 240 \times 1000 \times \frac{75}{100} = 1,80,000$

47. (5) Total selling price

$= 12000 \times 35 \times 1000 = ₹\ 420000000$

$= ₹\ 42$ crore

48. (1) Required% $= \left(\frac{35-25}{25} \times 100\right)$

$= 40\%$

49. (4) Required average

$= \left(\frac{25+30+45+40+55+50}{6}\right) \times 1000$

$= \frac{245}{6} \times 1000 = 40833.33$

≈ 40834

50. (4) Required ratio

$= 45 : 35 = 9 : 7$

(51 – 55) :

51. (3) The number series is:

$97 + 1^3 = 98$

$98 - 2^3 = 90$

$90 + 3^3 = 117$

$117 - 4^3 = \mathbf{53}$

$53 + 5^3 = 178$

52. (1) The number series is:

$8 + 3 \times 1 = 11$

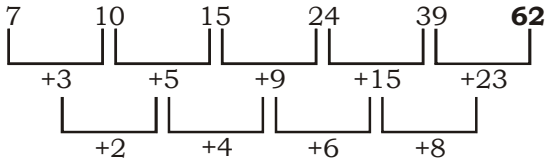
$11 + 3 \times 3 = 20$

$20 + 9 \times 3 = 47$

$47 + 27 \times 3 = \mathbf{128}$

$128 + 81 \times 3 = 371$

53. (2)



54. (3) The number series is :

$5 \times 3 - 1 = 14$

$14 \times 3 - 1 = 41$

$41 \times 3 - 1 = 122$

$122 \times 3 - 1 = \mathbf{365}$

$365 \times 3 - 1 = 1094$

55. (4) The number series is :

$18 \times 0.5 = 9$

$9 \times 1 = 9$

$9 \times 1.5 = 13.5$

$13 \times 2 = \mathbf{27}$

$27 \times 2.5 = 67.5$

56. (2) $15\ M \times 3 = 10\ C \times 9 = 7\ W \times 10$

$\Rightarrow 9\ M = 18\ C = 14\ W$

Ratio of efficiency between Man, child and woman = 14 : 18 : 9

ATQ,

$d \times \left(\frac{5}{15 \times 3} + \frac{5}{10 \times 9}\right) + \frac{7 \times 3}{7 \times 10} + \frac{11 \times 3}{10 \times 9} = 1$

$\Rightarrow d \times \left(\frac{1}{6}\right) + \frac{20}{30} = 1$

$\Rightarrow \frac{d}{6} = 1 - \frac{20}{30}$

$\Rightarrow \frac{d}{6} = \frac{1}{3}$

$\Rightarrow d = 2$ days

57. (2) A man sells 56 litre milk and water mixture, where milk : water = 5 : 2.

$\therefore$ Amount of milk = 40 litre & water = 16 litre

He replaces 21 litre milk and water mixture.

Amount of milk removed = 15 litre & water removed = 6 litre.

New amount of milk = (40 – 15)

=25 litre

New amount of water = (16 – 6)

= 10 litre

He adds a milk, water and honey in the ratio of 3 : 2 : 2

Total mixture = 21 litres

Amount of milk added = 9 litre

Amount of water added = 6 litre

Amount of honey added = 6 litre

New amount of milk, water and honey are respectively 34 litre, 16 litre, 6 litre.

It is poured in a container that contains some water and honey mixture, where water: honey = $a : b$.

Then we can say, the container initially contains b litre & a litre of water & honey respectively.

So, $34 : (16 + a) : (6 + b) = 17 : 9 : 4$

$= 34 : 18 : 8$

$\Rightarrow a = 2$ litre and $b = 2$ litre

$\therefore a : b = 1 : 1$

58. (2) Ratio of profit between Ram, Sonu and Sunil

$= 30000 \times 10 : 25000 \times 10 : 12000 \times 5$

$= 30 : 25 : 6$

$\therefore$ Share of Sunil

$= \frac{15000}{25} \times 6$

$= ₹\,3,600$

59. (2) Amount $= 21500 + 7116.5$

$= ₹\,28,616.50$

$$A = P\left(1+\frac{R}{100}\right)^T$$

$$\Rightarrow 28616.50 = 21500\left(1+\frac{R}{100}\right)^3$$

$$\Rightarrow \frac{28616.50}{21500} = \left(1+\frac{R}{100}\right)^3$$

$$\Rightarrow (1.3331) = \left(1+\frac{R}{100}\right)^3$$

$$\Rightarrow (1.1)^3 = \left(1+\frac{R}{100}\right)^3$$

$\Rightarrow R = 10\%$

$$\therefore SI = \frac{21500 \times 10 \times 3}{100} = ₹\,6450$$

60. (2) Downstream speed $= \frac{10.2}{18} \times 60$

$= 34$ km/hr

Now, upstream speed $= 34 - 3.5 \times 2$

$= 27$ km/hr

$\therefore$ Required time

$= \frac{121.5}{27} = 4.5$ hours

(61 – 65) :

61. (3) Total no. of ball faced by R in the tournament = 960

$\therefore$ Total no. of ball faced by T in the tornament $= \frac{960}{5} \times 3 = 576$

$\therefore$ Runs scored by T $= \frac{576 \times 125}{100} = 720$

Runs scored by R $= \frac{115 \times 960}{100} = 1104$

$\therefore$ Required % $= \left(\frac{1104 - 720}{1704} \times 100\right)\%$

$= 34\frac{18}{23}\%$

62. (3) Total runs scored by P in the tournament $= 20 \times 56 = 1120$

Let he faced x no. of balls in first 11 and last 9 matches.

ATQ,

$$\frac{79 \times x}{100} + \frac{61 \times x}{100} = 1120$$

$\Rightarrow 140x = 1120 \times 100$

$$\Rightarrow x = \frac{1120 \times 100}{140} = 800$$

63. (5) Let the total no. of balls faced = x

$\therefore$ Total runs scored = $x + 432$

ATQ,

$$\text{Strike rate} = \frac{x + 432}{x} \times 100$$

$\Rightarrow 157.6x - 100x = 43200$

$\Rightarrow 57.6x = 43200$

$\Rightarrow x = 750$

$\therefore$ Average no. of runs scored

$= \frac{750 + 432}{15} = 78.8$

64. (1) Strike rate of U $= \frac{22 \times 53}{1300} \times 100 = 89.69$

65. (2) Total no. of ball faced by S in the tournament $= 1300 \times \frac{75}{100} = 975$

Total runs scored by $= \frac{975 \times 84}{100} = 819$

$\therefore$ Required no. of match played by S

$= \frac{819}{39} = 21$

(66 – 70) :

66. (4) Time taken in crossing each other

$$= \frac{\text{Total length of trains}}{\text{Relative speed}}$$

The information given in both statements is not sufficient as length of first train and individual speed of each train are required.

67. (4) Area of rectangle = Area of triangle.
From the information given in both the statements, we can find area of triangle or area of rectangle. For finding length, breadth is required, which is not known.

68. (3) From the statement I,

$$r = \frac{100 \times 100}{1000} = 10\%$$

Thus we have,
P = Rs. 1000, r = 10%, t = 3years
Hence, C.I. can be determined
From the statement II.

$$\text{S.I} = \frac{1000 \times r \times 2}{100} = 20r$$

$$\text{C.I} = 1000\left[\left(1+\frac{r}{100}\right)^2 - 1\right]$$

$$\therefore \text{C.I} - \text{S.I} = 1000\left[\frac{200r + r^2}{10000}\right] - 20r$$

$$\Rightarrow 2000r + r^2 - 200r = 100$$

$$\Rightarrow r = 10$$

Hence, C.I. can be determined

69. (5) Let the unit's digit be x and ten's digit be y and $x < y$.
$\therefore$ Number = $10y + x$
From statement I,
$y - x = 5$ ....(i)
From statement II,
$y + x = 7$ ....(ii)
From (i) and (ii), x, y can be calculated and two digit number can be found.

70. (4) Let the distance between first palce and second place be z km.
Again, let speed of boat in still water be x kmph and that of stream be y kmph.
$\therefore$ Rate downstream = $(x + y)$ kmph
Rate upstream = $(x - y)$ kmph
From statement I,

$$\frac{z}{x+y} = 2 \quad \text{...(i)}$$

From statement II

$$\frac{z}{x-y} = 4 \quad \text{....(ii)}$$

71. (1) Total no. of employees in Legal department
= 48 + 54 + 36 + 30 +53 = 221
Total no. of employees in HR department
= 1050 + 1019 + 976 + 888 + 1004 = 4937

$$\therefore \text{ Required\%} = \left(\frac{221}{4937} \times 100\right)\%$$

$$= 4.47\% \approx 4\%$$

72. (2) Total no. of employees in Marketing department
= 1382 + 1384 + 1275 + 1300 + 1290
= 6631
Total no. of employees in production department
= 1542 + 1545 + 1550 + 1570 + 1580
= 7787

$$\therefore \text{ Required average} = \frac{7787 - 6631}{5}$$

$$= \frac{1156}{5} = 231.2$$

$$\approx 231$$

73. (5) Total no. of people in organisation A
= 1050 + 1017 + 1382 + 1542 + 786 + 48 = 5825
Total no. of people in organisation E
= 1004 + 963 + 1290 + 1580 + 735 + 53 = 5625
$\therefore$ Required ratio= 5825 : 5625
= 233 : 225

74. (3) Required total
= 5825 + 5703 + 5424 + 5613 +5625
= 28190

75. (4) Required% $= \left(\frac{960}{5703} \times 100\right)\%$
$= 16.83\% \approx 17\%$

(76-80) :

76. (1) I. $1.5x^2 - 21x + 72 = 0$
$\Rightarrow x^2 - 14x + 48 = 0$
$\Rightarrow x^2 - 8x - 6x + 48 = 0$
$\Rightarrow x(x-8) - 6(x-8) = 0$
$\Rightarrow (x-6)(x-8) = 0$
$\Rightarrow x = 6, 8$
II. $2y^2 + 12 = 10y$
$\Rightarrow 2y^2 - 10y + 12 = 0$
$\Rightarrow y^2 - 5y + 6 = 0$
$\Rightarrow y^2 - 3y - 2y + = 0$
$\Rightarrow y(y-3) - 2(y-3) = 0$
$\Rightarrow (y-2)(y-3) = 0$
$\Rightarrow y = 2, 3$
Clearly, $x > y$

77. (4) I. $x^2 + 9x + 20 = 0$
$\Rightarrow x^2 + 5x + 4x + 20 = 0$
$\Rightarrow x(x + 5) + 4(x + 5) = 0$
$\Rightarrow (x + 4)(x + 5) = 0$
$\Rightarrow x = -4, -5$
II. $3y^2 + 21y + 36 = 0$
$\Rightarrow y^2 + 7y + 12 = 0$
$\Rightarrow y^2 + 4y + 3y + 12 = 0$
$\Rightarrow y(y + 4) + 3(y + 4) = 0$
$\Rightarrow (y + 4)(y + 3) = 0$
$\Rightarrow y = -4, -3$
Clearly, $x \leq y$

78. (4) I. $x^2 = 784$
$\Rightarrow x = +28, -28$
II. $y = \sqrt{784}$
$\Rightarrow y = 28$
Clearly, $x \leq y$

79. (2) I. $4x^2 + 52x = -168$
$\Rightarrow 4x^2 + 52x + 168 = 0$
$\Rightarrow x^2 + 13x + 42 = 0$
$\Rightarrow x^2 + 7x + 6x + 42 = 0$
$\Rightarrow x(x + 7) + 6(x + 7) = 0$
$\Rightarrow (x + 6)(x + 7) = 0$
$\Rightarrow x = -6, -7$
II. $y^2 + 16y + 63 = 0$
$\Rightarrow y^2 + 9y + 7y + 63 = 0$
$\Rightarrow y(y + 9) + 7(y + 9) = 0$
$\Rightarrow (y + 7)(y + 9) = 0$
$\Rightarrow y = -7, -9$
Clearly, $x \geq y$

80. (3) I. $6x + 3y = 24$ ..... (i)
$x + 2y = 8.5$ ..... (ii)
equation (i) = 6 × equation (ii), we get
$6x + 3y - 6x - 12y = 24 - 51$
$\Rightarrow -9y = -27$
$\Rightarrow y = 3$
Put the value of y in equation (ii), we get
$x + 2 \times 3 = 8.5$
$\Rightarrow x = 8.5 - 6 = 2.5$
Clearly, $x < y$

ENGLISH LANGUAGE

(121 - 130) :

121. (3) 'have' replace with 'has'.
122. (5) 'No error'
123. (2) 'problem' replace with 'problems'
124. (4) 'assumes' replace with 'assume' because 'assumes' is singular vesbbut subject i.e. honesty and integrity is plural.
125. (3) 'to' will not come after 'Superior' because here we are not comparing
126. (5) 'No error'
127. (2) 'of' should be removed from here. for connecting two sentences conjunction 'because' will be used.
128. (5) 'No error'
129. (3) 'May' replace with 'Might' because verb predicted in past form.
130. (5) 'No error'

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Obstacle	athing that blocks one's way or prevents or hinders progress	अवरोध
Immediate	occurring or done at once	तुरंत
Potential	having or showing the capacity to develop into something in future	क्षमता
Proactively	by taking action to control a satuation	सक्रियता
Thaive	grow or developwell or vigorously or to flourish	प्रगति करना
Mired in	deep down	किसी समस्या से ग्रस्त
Break Throughs	new achevement	नयी उपलब्धि
Plunge	to fall down sharply	तेजी से नीचे गिरना
Beef up	to strengthen or improve	मजबूत बनाना
Panicked buying	large scale buying because of fear of future scacotiy	भविषय में कमी की आशंका
Fierce	wild or menacing in appearance	भयानक, खतरनाक
Topple	to depose	उपदस्य कर देना
Swayed by	the ability to exercise in fluence or authority	प्रभावित
Barven	too poor to produce much or any vegetation	बंजर
Impetus	Incentive, Encouragement	प्रेरणा
Make ends meet	to earn livelihood	रोजी रोटी कमाना
Balldore	to destroy or demolish	नष्ट कर देना
Unobtrusive	not drawing attention	ध्यान आकृष्ट नहीं
Misapprehension	false belief	गलत धारणा

IBPS RRB PO (MAIN) MOCK TEST-116 (ANSWER KEY)

1. (3)	41. (3)	81. (4)	121. (2)	161. (5)
2. (2)	42. (1)	82. (2)	122. (1)	162. (3)
3. (5)	43. (4)	83. (5)	123. (2)	163. (1)
4. (4)	44. (3)	84. (3)	124. (4)	164. (5)
5. (5)	45. (4)	85. (1)	125. (1)	165. (4)
6. (4)	46. (3)	86. (4)	126. (3)	166. (1)
7. (1)	47. (5)	87. (2)	127. (1)	167. (5)
8. (4)	48. (1)	88. (3)	128. (4)	168. (1)
9. (4)	49. (4)	89. (2)	129. (5)	169. (3)
10. (3)	50. (4)	90. (5)	130. (3)	170. (1)
11. (5)	51. (3)	91. (2)	131. (5)	171. (3)
12. (4)	52. (1)	92. (2)	132. (2)	172. (4)
13. (1)	53. (2)	93. (4)	133. (4)	173. (5)
14. (5)	54. (3)	94. (3)	134. (4)	174. (4)
15. (5)	55. (4)	95. (1)	135. (1)	175. (5)
16. (3)	56. (2)	96. (4)	136. (3)	176. (4)
17. (4)	57. (2)	97. (2)	137. (5)	177. (2)
18. (3)	58. (2)	98. (5)	138. (2)	178. (2)
19. (5)	59. (2)	99. (3)	139. (4)	179. (5)
20. (5)	60. (2)	100. (1)	140. (3)	180. (3)
21. (2)	61. (3)	101. (4)	141. (5)	181. (2)
22. (4)	62. (3)	102. (3)	142. (2)	182. (3)
23. (2)	63. (5)	103. (2)	143. (5)	183. (4)
24. (3)	64. (1)	104. (1)	144. (3)	184. (4)
25. (2)	65. (2)	105. (3)	145 (5)	185. (2)
26. (4)	66. (4)	106. (2)	146. (5)	186. (2)
27. (4)	67. (4)	107. (3)	147. (1)	187. (5)
28. (1)	68. (3)	108. (5)	148. (2)	188. (5)
29. (3)	69. (5)	109. (1)	149. (3)	189. (1)
30. (2)	70. (4)	110. (4)	150. (1)	190. (3)
31. (1)	71. (1)	111. (3)	151. (4)	191. (1)
32. (5)	72. (2)	112. (2)	152. (5)	192. (3)
33. (1)	73. (5)	113. (4)	153. (2)	193. (4)
34. (1)	74. (3)	114. (1)	154. (3)	194. (3)
35. (2)	75. (4)	115. (3)	155. (5)	195. (3)
36. (4)	76. (1)	116. (2)	156. (4)	196. (2)
37. (5)	77. (4)	117. (1)	157. (1)	197. (4)
38. (5)	78. (4)	118. (1)	158. (2)	198. (2)
39. (5)	79. (2)	119. (4)	159. (4)	199. (5)
40. (4)	80. (3)	120. (1)	160. (3)	200. (1)

Note:- If you face any problem regarding result or marks scored, please contact 9313111777

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003