IBPS CLERK MAINS GRAND TEST – ICM181205

ANSWER KEY

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

HINTS & SOLUTIONS

51. (3) Refer to the second last sentence of the second paragraph, "we then decided……insulin secretion"

52. (4) This was not meant to refute insulin experiment; rather it unravelled another aspect meant to stimulate further studies.

53. (3) The entire passage dwells on the response of the mechanism vis-a-vis different food intakes.

54. (4) Refer the 2nd last sentence of last paragraph, "the more protein is in the meal……provided to the brain"

55. (2) Refer the 1st sentence of the 2nd paragraph. Both increased brain serotonin level.

56. (2) Refer the second sentence of the 1st paragraph which states "the production and release in brain neurons…..body processes"

57. (1) In the last paragraph it is clearly stated that the increase of protein in the meal will lower the ratio of blood-tryptophan concentration

58. (2) It is implied in the 1st sentence of the 3rd paragraph of the passage, Refer to "surprisingly……tryptophan levels?"
The word surprisingly indicates that the researchers earlier hypothesis was different than the result.

59. (3) From the last sentence of the passage we can infer that the more the protein in the meal, the lesser will be the serotonin subsequently produced and released.

60.(3) Replace 'has lead to the break' with 'lead to the breach'

61.(5)

62.(4) Replace 'did you not returned' with 'did you not return'

63.(3) Replace 'I am beginning to realising' with 'I am beginning to realise'

64.(5)

65-69. The correct sequence to form meaningful sequence is **BEADFC.**

65.(2)

66.(1)

67.(3)

68.(4)

69.(5)

70. (1) Option (2) is incorrect contextually because of the use of 'countered'.
Option (4) is incorrect contextually too as it is giving a sense that there is some kind of objection towards its offensive policy of multilateralism with the great rising powers, in particular with China.
Option (3) is also incorrect contextually.

71. (1) Option (2) is incorrect because it gives a sense of something is behind the physical object due to the absence of 'in'.
Option (3) and (4) are incorrect contextually.

72. (2) CADEB is the correct sequence. There can be no argument regarding the Choice for the 1st sentence as it is introducing the issue. In C it is mentioned that court proceedings are inaccurate and in sentence A it is only elaborated therefore it is the next sentence of the sequence. The argument is justified in statement D, therefore it is just continuing the paragraph and must be the next statement. E is one of the way to deal with the things and therefore it must come next.

73. (5) 'though, measure' is the correct set of words making the sentence meaningful.

74. (4) 'negotiations, between' is the correct set of words.
Stipulation means a condition or requirement that is specified or demanded as part of an agreement.

75.(3) Uncanny means beyond the ordinary or normal; extraordinary: hence it is opposite in meaning to natural.

76.(1) Squalid means foul and repulsive, as from lack of care or cleanliness; neglected and filthy. Hence it is same in the meaning to sordid.

77.(1) **Stout** means (of an object) strong and thick which is opposite or antonym of fragile, therefore option (1) is the correct choice for the given question.

78.(5) **Effeminate** means (of a man) having characteristics regarded as typical of a woman; unmanly hence manly is the word most opposite in meaning.

79.(3) **Dissipate** and waste are same in meaning hence option (3) is the correct choice for the given question.

80.(4) This is an incomplete sentence since the verb is missing. Option (d) provides the verb (is recognized) and presents the only complete sentence among the options.

81.(4) This was an unnecessary shift of pronoun. Do not shift from 'you' to 'one'. Choice D changes the shift unnecessarily.

82.(3) The demonstrative pronoun 'those' is needed here – *from those*

83.(2) *Community* needs a singular verb, *influences*. Also, the pronoun which refers to *community* should be singular.

84.(3) Option (3) is the correct answer as it is the best way of expressing the idea.

85. (4) Refer the last sentence of the 1st paragraph, "Today, however, the largest……distribution"

86. (1) Refer second last sentence of the passage which indicates VHS was preferred over VCRs as VHS gained the advantage of strategic alignment with producers of prerecorded tapes.

87. (3) The 1st paragraph provided the basic paradigm and latter paragraphs substantiated it.

88. (2) It created an impression of frequent availability of an additional feature which will increase and spread its demand in the market.

89. (1) The passage simply illustrates the strategy through which VHS got dominating.

90. (1) In the 2nd paragraph it is explained that VHS sought to maintain exclusive control over VCR distribution; whereas, Beta producers were reluctant to form such alliances.

91-95.

@	≥
#	>
%	=
$	≤
*	<

91.(3)
92.(4)
93.(2)
94.(1)
95.(3)

96. (5) 19th January

97. (2) From statement II, R>P>(S,T), Since R is the second heaviest, it means Q is the heaviest.

98. (1) From I, D>B>C>A,E. Hence C is third highest scorer.
Statements II is not sufficient, some more information are needed.

99. (4) From I, E>L>O and S
From II, At least one person is taller than E.
So, data insufficient

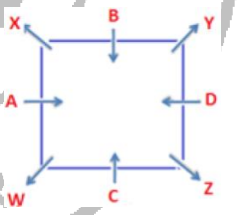
100. (1) From I,
A's rank= 4th from top
K's rank= 28th from top
P's rank= 21st from top.

101-105.

Children	Age	Father	Mother
Q	4	Anurag	Kanika
P	6	Keshav	Vaishali
R	5	Vishnu	Roli
S	3	Himesh	Meena
T	9	Ratan	Jyoti

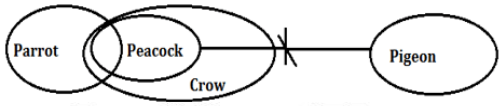
101.(1)
102.(2)
103.(4)
104.(2)
105.(2)

106-110.

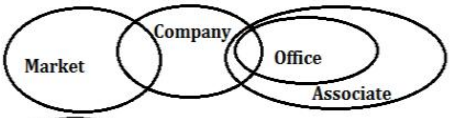


106.(3)
107.(5)
108.(2)
109.(5)
110.(3)
111. (4)
112. (3)

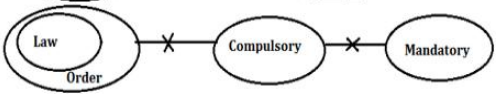
113. (3)



114. (3)



115. (3)



116.(4)
117.(1)
118.(2)
119.(2)

120.(4)
121.(2)
122.(2) Only 385 will be divisible by 3 when added 2 on first digit of each number.
123.(3) 864 521 743 853 962
124.(1) 8 ÷ 4 = 2.
125.(5) 786 614 539 487 398

126-130.

Person	Colour	State	Days
A	Green	Uttarakhand	Saturday
E	Blue	HP	Sunday
D	Red	MP	Monday
F	Pink	Bihar	Thursday
G	Black	WB	Tuesday
B	Brown	UP	Friday
C	Yellow	AP	Wednesday

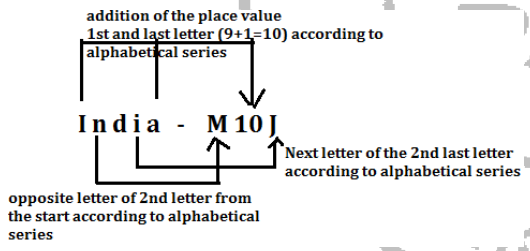
126. (4)
127. (2)
128. (4)
129. (3)
130. (1)

131-135.

DAY	PERSON	COMPANY
Monday	K	B
Tuesday	R	C
Wednesday	J	D
Thursday	M	A
Friday	T	E
Saturday	L	F
Sunday	Q	G

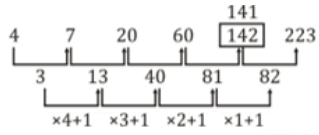
131.(3)
132.(1)
133.(4)
134.(5)
135.(2)

136-140.

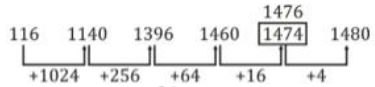


136. (4)
137. (3)
138. (5)
139. (5)
140. (2)

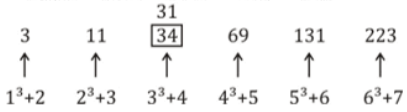
141. (2)



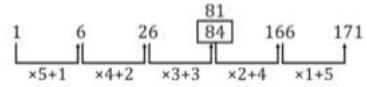
142. (2)



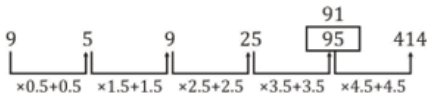
143. (2)



144. (4)



145. (4)



146.(4) $A + B = \frac{1}{10}$

$B + C = \frac{1}{15}$

$C + A = \frac{1}{20}$

$(A + B + C) = = \frac{13}{120}$

6 days work $= \frac{78}{120}$

Remaining work $= 1 - \frac{78}{120}$

$= \frac{42}{120} = \frac{7}{20}$

$(B + C)$'s 4 days work $= \frac{4}{15}$

$\therefore$ Remaining work $= \frac{7}{20} - \frac{4}{15}$

$\therefore$ Required no. of days $= \frac{\frac{1}{12}}{\frac{1}{120}}$

= 10 days

147.(1) Required time $= \frac{(54-45)}{54} \times 60$

= 10 min.

148.(5) Let First no = x

$\therefore$ Second no $= \frac{x}{2}$

Third no $= \frac{x}{3}$

Given $x + \frac{x}{2} + \frac{x}{3} = 154 \times 3$

x = 252

Required difference $= x - \frac{x}{3} = 168$

149.(2) $\frac{\frac{PR^2(300+R)}{(100)^3}}{\frac{PR^2}{(100)^2}} = \frac{19}{6}$

$\therefore R = 16\frac{2}{3}\%$

150.(1) $P_1\left(1+\frac{4}{100}\right)^5 = P_2\left(1+\frac{4}{100}\right)^7$

$\therefore P_1 : P_2 = 676 : 625$

$\therefore P_1 = \frac{676}{1301} \times 2602$

= 1352

151-155. Degree measure of B + D = 360° - (80° - 72° - 74° + 62°)

= 72°

Also, difference b/w degree measures of B & D = 28°

$\therefore$ Degree measure of B and D is 50° and 22° respectively as B is more than D.

Now total literates in all villages together

$= \frac{5500}{50} \times 360$

= 39600

151. (3) Illiterate persons in village B

$= \left(1 - \frac{1}{11}\right) \times 5500$

= 5000

Illiterates in Village E

$= \frac{75}{100} \times \frac{74}{360} \times 39600 = 6105$

$\therefore$ Total sum = 5000 + 6105 = 11105

152. (1) Illiterate persons of village A

$= 39600 \times \frac{80}{360} \times \left(1 + \frac{3}{22}\right) = 10{,}000$

$\therefore$ Required % $= \frac{10{,}000}{39600} \times 100 \approx 25.3\%$

153. (4) Required ratio $= \frac{A+D}{B+F} = \frac{80^\circ + 22^\circ}{50^\circ + 62^\circ} = \frac{51}{56}$

154. (2) Total illiterate male persons in village F

$= 39600 \times \frac{62}{360} \times \left(1 + \frac{2}{11}\right) \times \frac{15}{26}$

= 4650

Total literate male persons in village F

$= 39600 \times \frac{62}{360} \times \frac{13}{22} = 4030$

∴ Total number of males in village F = 4650 + 4030

= 8680

155. (3) Required average

$= \frac{1}{4}(50 + 72 + 22 + 74)$

= 54.5°

156.(4) $\frac{1200}{14900} \times 100 = 8\%$ (approx.)

157.(3) Total officer = 72760

Total clerk = 105,450

Difference = 32690

158.(2) Clerk = 11000

Officer = 9000

Req. percent% = $\frac{11000-9000}{9000} \times 100$

= 22% (approx)

159.(3) 300% means 4 times the number clerks in Bangalore, which is in Hydrabad.

160.(4) Mumbai has highest number of candidate

161. (3) Let P ltr. of mixture are taken out from all 3 containers.

Quantity of X, Y and Z from A container

$\rightarrow \frac{2P}{6}, \frac{3P}{6}, \frac{P}{6}$

From B container

$\rightarrow \frac{P}{8}, \frac{2P}{8}, \frac{5P}{8}$

From C container

$\rightarrow \frac{3P}{7}, \frac{P}{7}, \frac{3P}{7}$

Quantity of Y $\rightarrow \frac{3P}{6} + \frac{2P}{8} + \frac{P}{7}$

$= \frac{84P + 42P + 24P}{168}$

$= \frac{150P}{168}$

Quantity of X $\rightarrow \frac{2P}{6} + \frac{P}{8} + \frac{3P}{7}$

$= \frac{56P + 21P + 72P}{168}$

$= \frac{149P}{168}$

Diff. $= \frac{150P}{168} - \frac{149P}{168} = \frac{1}{8}$

P = 21 liter

162. (4) Distance between P and Q is 150 km.

Now X bus cover 40 km in 1 hour

Y bus cover 60 km in 1st hour

Remaining distance = 50 km

Remaining time to cross each other

$= \frac{50}{40+50} = \frac{50}{90} = \frac{5}{9} hr$

Distance which is covered by 'Y' in $\frac{5}{9} hr$

$= 40 \times \frac{5}{9} = \frac{200}{9} km$

Distance between Q and the point where buses crosses each other

$= 60 + \frac{200}{9} = 82\frac{2}{9} km$

163. (4) Let Pankaj and Dinesh marks in Gate is a and b respectively.

And Marks of Pankaj and Dinesh in NET is 2a, $\frac{5b}{3}$ respectively.

ATQ,

$2a + \frac{5b}{3} = 120$ ... (i)

a + b = 65 ...(ii)

solving (i) and (ii)

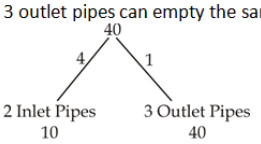
a = 35, b = 30

Required difference

35 + 70 − 30 − 50 = 25

164. (2) 2 inlet pipes can fill the tank in 10 hours

3 outlet pipes can empty the same tank in 40 hours



Efficiency of 2 inlet pipes → 4 unit/hour

Efficiency of 3 outlet pipes → 1 unit/hour

9 more outlet pipes are required to maintain constant level

Total 12 outlet pipes required.

165. (1) Let x kg is quantity of type 1 Rice

y kg is quantity of type 2 Rice

Let cost of type 2 Rice = 5a per kg

So cost of type 1 Rice = 6a per kg

Now cost price of mixture = 6ax + 5ay

Selling price of mixture = 5.5a per kg

= 5.5ax + 5.5ay

Profit $= \frac{0.5ay - 0.5ax}{5ay + 6ax} \times 100 = \frac{100}{43}$

x : y = 3 : 5

166.(5) I. $x^2 + x - 20 = 0$

$(x + 5)(x - 4) = 0$

$x = 4, -5$

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

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

y=-5, +6

no relation

167.(2) I. $225x^2 - 4 = 0$

$x = \pm\frac{2}{5}$

II. $\sqrt{225y} + 2 = 0$

$y = \frac{-2}{15}$

$\therefore x \geq y$

168.(5) I. $\frac{4}{\sqrt{x}} + \frac{7}{\sqrt{x}} = \sqrt{x}$

$11 = x$

II. $y^2 - \frac{(11)^{\frac{5}{2}}}{\sqrt{y}} = 0$

$y^{\frac{5}{2}} = (11)^{\frac{5}{2}}$

$y = 11$

$\therefore x = y$

169.(4) I. $x^2 - 365 = 364$

$x^2 = 729$

$x = \pm 27$

II. $y - \sqrt{324} = \sqrt{81}$

$y = 9 + 18 = 27$

$\therefore x \leq y$

170.(3) I. $3x^2 + 8x + 4 = 0$

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

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

II. $4y^2 - 19y + 12 = 0$

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

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

$\therefore x < y$

171. (1) From I : D + E = 14

From II : A + B + C + F = 200

∴ From I and II average age can be find out.

172. (5) Only I or II is sufficient.

173. (5) $8M + 6W = \frac{W}{21}$

$1.5(8M + 6W) = 1.5 \times \frac{W}{21}$

$12M + 9W = \frac{W}{14}$ = 14 days

174. (4) Can't be answered because direction of the trains are not given .

175. (1) From A; 600−500 = 10% of cost price
Hence cost price = $\frac{100}{10}\times100 = 1000$
From B
$\frac{10\times10}{100}$% of cost price = 10,
1% of Cost price = 10; 100% of Cost price = 1000

176.(4) Since, marks of geography or Relationship between all three subject is not given.
Hence, we cannot find the marks secured in mathematics
i.e. data inadequate

177.(2) Total age of boys= $32\times14 = 448$ years
Total age of girls= $28\times13 = 364$ years
∴ Average age of whole class= $\frac{448+364}{32+28} = \frac{812}{60} = 13.53$

178.(3) Let Students in schools are 5x, 8x and 4x respectively
After increasing, No. of students in school A= $4x\times\frac{120}{100} = 6x$
No of students in school B= $8x\times\frac{125}{100} = 10x$
No of students in school C= $4x\times\frac{130}{100} = \frac{26}{5}x$
∴ Required New Ratio= $6x : 10x : \frac{26x}{5}$
$= 15 : 25 : 13$

179.(5) Ratio of their investment
Karan : Shirish = $12\times60000 : 6\times100000 = 6 : 5$
∴ Profit share of Shirish= $\frac{5}{5+6}\times151800 = 5\times13800 = 69000$

180.(1) Work will be completed by a men= $8\times4 = 32$ days
Work will be completed by a Women= $12\times4 = 48$ days
Work will be completed by a children= $8\times8 = 64$ days
∴ Work remained after 2 days (if 2 men, 8 children and 3 women)
$= 1-2\times\left[\frac{2}{32}+\frac{8}{64}+\frac{3}{48}\right]$
$= 1-2\times\left[\frac{12+24+12}{192}\right]$
$= 1-\frac{48}{96} = \frac{1}{2}$
∴ No. of women required to finish the remained work. $n\times\frac{2}{48} = \frac{1}{2}$
∴ No of women n=12 women

181.(2) Required average= $\frac{45+20+45+42+26+40}{6} = \frac{218}{6}$
$= 36.3 \approx 36$ (Approx.)

182.(3) Overall ratings of HR= 50 + 45 + 40 + 50 + 46 + 50 = 281
Overall rating of Finance= 48 + 45 + 35 + 40 + 30 + 41 = 239
Overall rating of Sales= 50 + 45 + 42 + 35 + 50 + 40 = 262
Overall rating of Exports= 50 + 45 + 40 + 30 + 50 + 48 = 263
And Overall ratings of IT= 45 + 20 + 45 + 42 + 26 + 40 = 218
Hence, 2nd highest overall rating is for exports.

183.(4) Rating for Negotiation= 46 + 30 + 50 + 50 + 26 = 202
Rating for Creativity= 40 + 35 + 42 + 40 + 45 = 202
Rating for Team building = 50 + 41 + 40 + 48 + 40 = 219
Rating for Problem solving= 50 + 40 + 35 + 30 + 42 = 197
Rating for Leadership= 50 + 48 + 50 + 50 + 45 = 243
And rating for Interpersonal skills= 45 + 45 + 45 + 45 + 20 = 200
Hence, Rating is the lowest for problem solving .

184.(5) Required difference = 263 – 239 = 24.

185.(1) Required% = $\frac{20\times100}{\frac{14+45+45+45}{4}}$
$= \frac{2000\times4}{180} = 44.44\%$

186.(2) 7144 – 7132 = 12

187.(5) $\frac{22}{7}+\frac{22}{5}-\frac{13}{5}=?$
$?=\frac{22}{7}+\frac{9}{5}$
$=\frac{110+63}{35}=\frac{173}{35}$

188.(2) 5287 – 254.804 = 5032.196

189.(1) 400 × 225 – 70000 = 90000 – 70000 = 20000

190.(1) $\frac{?}{100}\times170=85\Rightarrow?=50.$