IBPS Specialist Officer (SO) 2021 Previous Year Paper Shift 1

IBPS SO (Specialist Officer) • 2021 • 70 questions • 120 minutes • Answer key

Take this paper as a free timed mock test

Practise under exam conditions, then review your answers after you submit.

yourmocktest.com/pyq/ibps-so/ibps-specialist-officer-so-2021-previous-year-paper-shift-1

Scan the QR code or click the link to open it.

REASONING ABILITY

Eight persons around circular table (mixed facing)

Directions (80-84): Study the information carefully and answer the questions given below.

$ Eight persons are sitting around a circular table. Some of them are facing towards the centre of the table and some of them are facing outside the centre of the table.

N sits third to right of T. Only one person sits between N and Q. Three persons sit between Q and M. R sits second to the right of M. P sits second to the right of S. P does not sit adjacent to N. Immediate neighbours of M faces the opposite direction. Q sits immediate right of P. Immediate neighbours of T face opposite direction. S sits immediate right of N. S faces T. Q faces the opposite direction as O.

Q81. Who among the following faces R?

(a) O
(b) S
(c) N
(d) M
(e) None of these

Q82. How many persons sit between P and M, when counted right of P?

(a) One
(b) Two
(c) Three
(d) Four
(e) None of these

Q83. Which of the following statement is true about N?

(a) N faces the same direction as M
(b) P sits opposite to N
(c) N sits immediate right of O
(d) R sits second to the right of N
(e) None is true

Q84. Who among the following sits immediate right of the one who sits third to the left of Q?

(a) M
(b) T
(c) R
(d) P
(e) None of these

Airplane positions: coordinates puzzle

Directions (85-87): Study the information carefully and answer the questions given below.

Five countries fighter planes do air force exercise. Russia plane is 10km north of China plane. Port O is

exactly in the middle of the point of Russia plane and China plane. Germany plane is 8km east of China plane. India plane is 8km east of port O. USA plane is 6km north of India plane.

Q85. What is the shortest distance between USA and Germany plane?

(a) 12km
(b) 10km
(c) 8km
(d) 6km
(e) 14km

Q86. If Germany plane goes 20km in the in the west then, what is the direction of India plane with respect to the Germany plane?

(a) North-east
(b) South-west
(c) North-west
(d) South-east
(e) North

Q87. What is the shortest distance between USA plane and port O?

(a) 12km
(b) 14km
(c) 8km
(d) 6km
(e) None of these

Q88. It is a well-known fact that one can learn and remember things easily if it has got both audio and visual aids instead of just audio. Keeping this thing in mind, many study sessions are taken where students are taught with the help of videos. Cinema has been popular since its inception. People came to realize that students can remember more through videos than just from verbal sessions as they observed kids remembering dialogue of the movie, they watched a week ago but nothing from the lecture they attended in the morning.

Which of the following weakens the concept discussed in above statement?

(a) Many EdTech companies has launched their story-video courses for efficient and active learning for children.
(b) Cinema is basically considered as the best among all means of entertainment.
(c) Study material with video and audio is wastage of time.
(d) Cinema has a negative impact on the youth by showing various ways of killing people and adult scenes.
(e) Both (c) and (d)

Data sufficiency: row positions and comparative weights

Directions (89-90): Each of the questions below consists of a question and two statements numbered I, and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the two statements and Give answer:

Q89. In a row, a certain number of persons are sitting. What is the total number of persons in the row?

I. Position of Riya is 21st from the left end and the position of Shiv is 29th from the right end.

II. Shivani is 23rd from the left end and 14th from the right end.

(a) If the data in Statement I is sufficient to answer the question while the data in Statement II is not required to answer the question
(b) If the data in Statement II is sufficient to answer the question, while the data in Statement I is not required to answer the question
(c) If the data in either Statement I alone or Statement II alone is sufficient to answer the question
(d) If the data neither in Statement I nor in Statement II together are sufficient to answer the question
(e) If the data in the Statement I and II together are necessary to answer the question

YourMockTest.com — Free Study Material

Q90. Among six friends K, L, M, N, O and P who is the heaviest, if all are having different weights?

I. L is heavier than O. P is heavier than L and N. O is not the lightest.

II. K is heavier than P but not the heaviest.

(a) If the data in Statement I is sufficient to answer the question while the data in Statement II is not required to answer the question

(b) If the data in Statement II is sufficient to answer the question, while the data in Statement I is not required to answer the question

(c) If the data in either Statement I alone or Statement II alone is sufficient to answer the question

(d) If the data neither in Statement I nor in Statement II together are sufficient to answer the question

(e) If the data in the Statement I and II together are necessary to answer the question

Eight persons in a row (mixed facing)

Directions (91-95): Study the following information carefully and answer the question given below.

Eight persons are sitting in a row. Four of them are facing north while the rest are facing south direction. Only three persons sit between P and R. P sits at one of the extreme ends. S sits third to the left of R and faces the same direction as R. More than two persons sit between Q and U. T sits third to the left of W. V sits second to the left of U, both are facing the opposite direction. The persons who sit at the extreme ends faces opposite direction. S does not sit at an extreme end. Neither Q nor U is an immediate neighbor of R. W is facing the opposite direction of P and Q. T is not an immediate neighbor of V and faces south.

Q91. Who amongst the following is sitting exactly between S and the one who sits second to the right of V?

(a) P
(b) Q
(c) T
(d) U
(e) W

Q92. Who amongst the following sits third to the left of T?

(a) P
(b) W
(c) R
(d) S
(e) V

Q93. Four of the following five are alike in a certain way so form a group, who among the following does not belong to that group?

(a) P
(b) Q
(c) R
(d) T
(e) W

Q94. How many people sit between P and V?

(a) Four
(b) Three
(c) None
(d) Two
(e) One

Q95. Who among the following sits fourth to the right of the one who sits second to the left of U?

(a) V
(b) W
(c) Q
(d) S

(e) T

Inequality statements and conclusions

Directions (96-99): In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions. Give answer

Q96. Statements: P1 > P2 = P3 < P4 ≤P5>P6

Conclusions: I. P5 > P2 II. P6 > P3

(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or conclusion II follows
(d) If neither conclusion I nor conclusion II follows
(e) If both conclusions I and II follow

Q97. Statements: P > N > D ≥G<B≤J

Conclusions: I. G < P II. G < J

(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or conclusion II follows
(d) If neither conclusion I nor conclusion II follows
(e) If both conclusions I and II follow

Q98. Statement: Q ≤ E N = R ≥S

Conclusions: I. E ≥ SII. S≤N

(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or conclusion II follows
(d) If neither conclusion I nor conclusion II follows
(e) If both conclusions I and II follow

Q99. Statement: R = S ≥ Y >M0

Conclusions: I. Y < M II. O > S

(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or conclusion II follows
(d) If neither conclusion I nor conclusion II follows
(e) If both conclusions I and II follow

Q100. If in the number "8634726521, positions of the first and the second digits are interchanged, positions of the third and fourth digits are interchanged and so on till the positions of 9th and 10th digits are interchanged, then which digit will be 6th from the left end?

(a) 7
(b) 1
(c) 3
(d) 9
(e) None of these

QUANTITATIVE APTITUDE

Applications by department (table)

Table given below shows five colleges in which there are five departments viz -
Arts, commerce, Medical, science and vocational. Also, table tells shows total received application in department and percentage of cancel applications (Male + female) and ratio of male to female in approved

YourMockTest.com — Free Study Material

application.

Departments	Total Application received	Percentage of cancel applications	Ratio of (male: female) Approved
Arts	P	40%	11:7
commerce	1400	Q	29:21
Medical	1600	35%	R
Science	S	55%	43:17
vocational	800	60%	T

Q101. If the difference between approved male applications and approved female applications in Arts department is 200, then find P is how what percent more than applications received in vocational department?

(a) 75%
(b) 87.5%
(c) 62.5%
(d) 662%

Q102. If the difference between approved male applications and approved female applications in science department is 234, then find the sum of total applications received in science, commerce and medical department together?

(a) 4200
(b) 4400
(c) 4600
(d) 3800

Q103. If the difference between approved male applications and approved female applications in Arts department is 100, then find difference between P and cancel application in medical department?

(a) 170
(b) 180
(c) 190
(d) 165

Q104. If the number of approved male applications in vocational department is 40 more than that of approved female applications, then find the ratio of approved female applications to approved male applications in the same department?

(a) 9 : 7
(b) 5 : 7
(c) 13 : 9
(d) 7 : 9

Q105. Find the ratio of canceled application in medical department to vocational department?

(a) 7: 5
(b) 5 : 7
(c) 13 : 9
(d) 9 : 7

Q106. If the difference between approved male applications and approved female applications in commerce department is 112, then find sum of Q and total application received in medical department?

(a) 2300
(b) 2400
(c) 2700
(d) 2800

YourMockTest.com – Free Study Material

Q107. Pipe A alone can fill a tank in 30 mins and pipe B alone can fill the same tank in 'X' mins. Pipe C alone can empty the tank in 60 mins. If pipes A, B, and C together take 25 - min to fill the same tank, then find time taken by pipe B alone to fill the e th of the same tank?

(a) 12 min
(b) 18 min
(c) 27 min
(d) 21 min

Q108. A vessel contains 232-liter mixture of zinc and sodium out of which 37.5% is sodium. 48 lit of mixture is taken out and 18-liter sodium & 14-liter zinc are added in remaining mixture. Find the ratio between quantity of sodium to zinc in the final mixture.

(a) 43:29
(b) 43:27
(c) 27 :: 43
(d) 41:29

Q109. Train A having length 450 m crosses a platform thrice of its length in 36 sec. Train B running at the speed of 54 kmph crosses a standing man in 50 sec. find the time taken by both trains to cross each other when running in same direction.

(a) 28 - seconds
(b) 24 - seconds
(c) 34 - seconds
(d) 36 - seconds

Q110. Amit and Bunty started a business with the capital of Rs 3200 & Rs 4400 respectively. After four months Amit increased his investment by 12.5% and Bunty withdrawn his 9 % from his investment. If 11 at the end of year, difference of their profit shares is Rs. 1750, then find the profit share of Bunty (in Rs.)?

(a) 10850
(b) 10750
(c) 10250
(d) 10150

Q111. Age of Sonali is 25% more than the age of Mitra. If the ratio of present age of Mitra to Sam is 4 : 9 and after 12 years, the average of Sam and Sonali will be 40 years, then find the sum of Ages of Sonali four years hence and Sam six years ago?

(a) 54 yrs
(b) 48 yrs
(c) 52 yrs
(d) 46 yrs
(e) 50 yrs

Q112. If difference between total compound interest in two years and total simple interest in three years on a certain sum at the rate of interest 12% p.a. is Rs 4224, then what will be the compound interest earned when two times of the same sum invested at 10% per annum for two years?

(a) Rs 12800
(b) Rs 16800
(c) Rs 16400
(d) Rs 17800
(e) Rs 19200

Q113. If the breadth of rectangle is increased by 2cm then it will become side of a square. Area of square is 24cm2 more than the area of rectangle and the ratio of length and breadth of rectangle is 6 : 5. Then, find the ratio of area of rectangle to the area of square.

(a) 3 : 4
(b) 5 : 6
(c) 12: 13

YourMockTest.com — Free Study Material

(d) 6 : 7

Q114. X invested Rs. P at 10% per annum, Y invested Rs. (P - 4000) at the rate of 12% per annum. If they both get total compound interest at the end of two years Rs. 6412.8, then find capital invested by Y ?

(a) 16000 Rs.
(b) 12000 Rs.
(c) 10000 Rs.
(d) 14000 Rs
(e) 18000 Rs.

Q115. Ratio of present salary of Ankit and Pankaj is 6:5 and ratio of their present salary to previous year salary is 4:3 and 5:4 respectively. If difference between previous year salary of Ankit and Pankaj is Rs.2000, then find present salary of Pankaj?

(a) Rs 24000
(b) Rs 18000
(c) Rs 20000
(d) Rs 16000
(e) Rs 21000

Q116. A shopkeeper gives 20% discount on each article. He also gives one article free at every 4 articles he sold and earns 8% profit, if M.R.P. of each article is Rs. 270 find cost price of one article when he bought five articles?

(a) Rs. 150
(b) Rs. 120
(c) Rs. 160
(d) Rs. 100
(e) None of these

Q117. X men can do a piece of work in 21 days working 8 hours each day. The number of days taken by X men is 70% of number of days taken by (x - 1) men, working 6 hours a day. Find the value of X.

(a) 14
(b) 13
(c) 15
(d) 16
(e) 17

Number series

Direction (118- 122): What will come in the place of question (?) mark in the following number series:

Q118. 12, 7, 8.5, 14.75, ?, 83

(a) 30
(b) 24
(c) 32
(d) 36
(e) 48

Q119. 12, 78, 395, 1584, 4755, ?

(a) 9512
(b) 9516
(c) 9518
(d) 9520
(e) 9580

YourMockTest.com — Free Study Material

Q120. 26, 53, 214, 1287, 10300, ?

(a) 95000
(b) 100005
(c) 103000
(d) 101005
(e) 103005

Q121. 4187, 2857, 2129, 1787, 1663, ?

(a) 1647
(b) 1642
(c) 1627
(d) 1637
(e) 1630

Q122. 27, 27, 54, 18, 72, ?

(a) 19.6
(b) 16.8
(c) 18.8
(d) 12.8
(e) 14.4

Pie charts: professions in societies A and B

Direction (123 -127) : Given below pie chart (i) shows percentage distribution of five different professional lives in a society 'A' while pie chart (ii) shows percentage distribution of these five different professional lives in a society 'B'. Read the data carefully and answer the questions.

Society A: Tattooist 15% | CA 10% | Lawyers 25% | Bankers 20% | Businessman 30%

Society B: Tattooist 10% | CA 15% | Lawyers 20% | Bankers 25% | Businessman 30%

Q123. If total professionals in society B is 40% more than total professionals in society A, then find total approximate percentage of bankers together in society A & society B?

(a) 19%
(b) 15%
(c) 11%
(d) 9%
(e) 23%

Q124. Total tattooist in both the society is 108 and total businessman in society A is 36 more than total businessman in society B, then find total lawyers in both the society?

(a) 184
(b) 188
(c) 192
(d) 186
(e) 196

Q125. Total CA in society A is 88 (8%) of total CA in society B, then find total bankers in society A is what percent more than total bankers in society B?

(a) 1%
(b) 3%
(c) 5%
(d) 62%
(e) 2%

YourMockTest.com — Free Study Material

Q126. Ratio of total professional in society A & B is 8 : 7 and difference between total CA in society A and total bankers in society B is 114, then find total number of businessman in both societies?

(a) 540
(b) 520
(c) 480
(d) 420
(e) 500

Q127. Total professional in society B is 20% more than that of total professional in society A. Find the ratio of total lawyer in society A to total bankers in society B?

(a) 5 : 4
(b) 5 : 6
(c) 5 : 7
(d) 5 : 9
(e) 5 : 3

Q128. Average of four numbers is 64. If 3 is added to first number, multiplied to second, subtracted from the third and divided to last one then all the values are same. Find the difference between 2nd highest and the smallest number?

(a) 45
(b) 35
(c) 42
(d) 39
(e) 32

Q129. 3 years ago, ratio of age of A and B is 3:1. If the present age of B is 37.2% of the present age of A then what is the difference between their present ages (in years)?

(a) 25
(b) 30
(c) 35
(d) 40
(e) 45

Q130. Ratio of volume of conical tent to total surface area of hemispherical bowl is 8 : 1. Radius of bowl and tent is equal and slant height of tent is 75cm. If radius of conical tent is equal to side of a cube, then find curved surface area of cube.

(a) 1576 cm2
(b) 1764 cm2
(c) 1852 cm2
(d) 1690 cm2
(e) 1512 cm2

Q131. 'A' purchased two beds at same price. He further sold one bed to 'B' at 60% profit and other bed to 'C' at 20% profit. 'C' further sold the bed to 'D' at 20% less than the average of cost price of bed for 'B' & 'C'. If D incurred 25% loss by selling the bed to 'E' at Rs.2100, then find the difference between the cost price of a bed for 'A' and 'D'.

(a) Rs.700
(b) Rs.450
(c) Rs.900
(d) Rs.300

Q132. Speed of boat in downstream is twice the speed of boat in upstream, if boat cover 96 km in downstream and 72 km upstream in total 20 hours. Find still water speed of boat?

(a) 6km/hr
(b) 8km/hr
(c) 7km/hr
(d) 9 km/hr

YourMockTest.com — Free Study Material

Q133. In a bag, there are some red and total 9 black and yellow balls. Probability of selecting two red balls from that bag is 1/7 which is 250% of the probability of selecting two black balls. Find number of yellow balls in that bag if the number of black balls is even.

(a) 3
(b) 5
(c) 6
(d) 4

Q134. In a university election of two candidates, 80% of the students cast their votes out of which 120 votes are invalid. The winner gets 37.5% of the total students votes and won by only 30 votes. Then find the number of students who don't cast their votes?

(a) 360
(b) 320
(c) 340
(d) 300

Q135. Rahul is going from Gurgaon to Agra from his car at the speed of 80 kmph. After 120 km, he reduces his speed by 12.5% and completes the whole journey in 5.5 hours. Find total time taken by him to cover the same distance, if he had reduced the speed after 2 hours.

(a) 6 hours
(b) 5.2 hours
(c) 5 - hours
(d) 4 - hours

Line graph: HP and Dell laptops sold by Hemant

Directions (136-140): The line graph given below shows the no. of laptops (HP and Dell) sold by Hemant in five days. Read the Line graph given below carefully and answer the following questions.

(Graphic showing counts on Monday to Friday for HP and Dell — as printed in source)

Q136. What is the difference between the average no. of HP laptop sold by Hemant on Wednesday, Thursday and Friday and that of Dell laptop on Tuesday, Wednesday and Thursday?

(a) 20
(b) 10
(c) 15
(d) 5

Q137. If price of HP laptop is 20% more than that of Dell laptop, then find the amount he earned on Wednesday is what percentage of amount he earned on Thursday.

(a) 60%
(b) 75%
(c) 50%
(d) 60%

Q138. Total laptops sold on Tuesday is what percentage more/less than that on Monday.

(a) 20%
(b) 40%
(c) 60%
(d) 50%

Q139. From Monday to Friday, 20% of total Dell laptops found defective while 60% of remaining remains unsold. Find the total no. of Dell laptops.

(a) 1250
(b) 1000
(c) 750
(d) 600

YourMockTest.com — Free Study Material

Q140. If the ratio of no. of HP and Apple laptops sold by shopkeeper on Wednesday, Thursday and Friday is 4: 7, 5: 3 and 4: 5 respectively, then find the apple laptop sold by shopkeeper on same days.

(a) 240
(b) 220
(c) 280
(d) 250

Partnership investments problem

Directions (141-145): Read the given information carefully and answer the following questions.
A, B, C and D started a business in partnership. A invested Rs. 5000 for whole period whereas the average of initial investment for all four is Rs. 5975. Investment made by D is 25% more than B and ratio of investment made by B to that of C is 10 : 9. Time period for which B invested his amount is 2/3rd of that of A. Sum of time period for which C & D invested is equal to total time period for which A & B invested and profit share of C is 18/79th of total profit at the end of the year.

Q141. Find ratio of period of investment of C to that of D?

(a) (a) 1:1
(b) (b) 1: 2
(c) (c) 2 : 3
(d) (d) 3 : 2

Q142. Difference between investment of D & C is what percent of difference between investment of B & D?

(a) (a) 125%
(b) (b) 100%
(c) (c) 150%
(d) (d) 140%

Q143. If at the end of business term, total profit is Rs. 15,800, then find the difference between profit share of A & D.

(a) (a) Rs. 800
(b) (b) Rs. 1200
(c) (c) Rs. 1000
(d) (d) Rs. 1500

Q144. Profit share of B is what percent of profit share of A?

(a) (a) 80%
(b) (b) 75%
(c) (c) 60%
(d) (d) 100%

Q145. Investment of C & D together is approximately what percent of total investment of all the four?

(a) (a) 45%
(b) (b) 48%
(c) (c) 50%
(d) (d) 52%

Approximate value arithmetic

Directions (146-150): What approximate value will come in place of question mark (?) in the given questions: (You are not expected to calculate the exact value.)

Q146. ? 2 + 190.98 - 19.01 x 6.97 = 316.99 × 1.99

(a) (a) 14
(b) (b) 19
(c) (c) 24
(d) (d) 26

YourMockTest.com — Free Study Material

Q147. 768.06 + 11.97 × 1256.05 -58.05 = ?

(a) (a) 1033
(b) (b) 1175
(c) (c) 966
(d) (d) 880

Q148. 34.02% of 550.09 + ? = 297.07 + 1728.95

(a) (a) 14
(b) (b) 21
(c) (c) 8
(d) (d) 27

Q149. (? + 9.97) × 12.08 = 20.12% of 1319.97

(a) (a) 220
(b) (b) 240
(c) (c) 260
(d) (d) 280

Q150. ? % of 179.99 = 1(24.02)2 + (17.98)2 + 60.01% of 659.98

(a) (a) 80
(b) (b) 60
(c) (c) 40
(d) (d) 20

ANSWER KEY

81	b	82	c	83	e	84	a	85	c	86	a	87	a	88	e	89	b	90	e
91	c	92	e	93	b	94	d	95	e	96	a	97	e	98	b	99	a	100	b
101	b	102	c	103	a	104	d	105	a	106	b	107	d	108	a	109	b	110	b
111	a	112	a	113	a	114	a	115	a	116	a	117	a	118	a	119	a	120	a
121	b	122	e	123	a	124	c	125	e	126	b	127	c	128	d	129	b	130	b
131	a	132	a	133	d	134	a	135	b	136	a	137	b	138	d	139	b	140	d
141	b	142	a	143	c	144	b	145	c	146	d	147	b	148	b	149	c	150	a

More previous year papers and mock tests: **www.yourmocktest.com/pyq**

YourMockTest.com — Free Study Material