(Based on IBPS PO (Prelims) latest pattern for IBPS PO EXAM)

No. of Questions: 100	Time: 1:00 hrs
Name of Student :	Father's Name:
Centre :	Batch No.:

Read the directions (given below) carefully.

1. इस परितका में निम्नलिखित तीन प्रश्नावलियां हैं : प्रश्नावली I अंग्रेजी भाषा प्र.क्र. 1-30

प्रश्नावली II संख्यात्मक अभियोग्यता प्र.क्र. 31-65 प्रश्नावली III - तर्कशक्ति प्र.क्र. 66-100

- इन चार प्रश्नावलियों के उत्तर देने के लिए आपको कुल 1:00 घंटे का समय दिया जाएगा। प्रश्नावलियों के लिए अलग-अलग समय नहीं है। आप अपनी इच्छा के अनुसार समय का संविभाजन कर सकते हैं, परंतू आपको स्मरण रखना चाहिए कि इस परीक्षा में सफल होने के लिए आपको तीनो प्रश्नावलियों में अलग-अलग सफल होना आवश्यक है।
- 3. तर्कशक्ति और संख्यात्मक अभियोग्यता की प्रश्नावलियां हिन्दी और अंग्रेजी दोनों भाषाओं में छपी हुई हैं। हिन्दी रूपान्तर बाएं तरफ के पन्ने पर और अंग्रेजी दाहिने तरफ के पन्ने पर छपे हए हैं।
- अगर आप गलत उत्तर देंगे तो दंडस्वरूप आपके अंकों में कटौती की जाएगी। ऐसे किसी भी प्रश्न के निर्धारित अंकों में से, जिसका आपने गलत उत्तर दिया है, दंड के रूप में एक-चौथाई या 0.25 अंक काट
- रफ काम, यदि आप करना चाहें, तो इस पुस्तिका में ही करना चाहिए न कि उत्तरपत्र पर। इस हेतू हाशिए की अथवा अन्यत्र उपलब्ध खाली जगह का उपयोग कीजिए अन्य किसी कागज का उपयोग न कीजिए।
- अपने उत्तर अलग उत्तरपत्र पर एच.बी. पेन्सिल का प्रयोग कर दर्शाइए। उत्तर दर्शाने के लिए उत्तरपत्र में दिए गए अनुदेशों का पालन कीजिए।
- 7. आपके उत्तरपत्र में उत्तर दर्शाने के लिए 100 उत्तरस्थान हैं। इस पुस्तिका में दिए हुए 100 प्रश्नों के उत्तर देने के लिए 100 उत्तरस्थानों का उपयोग कीजिए।
- जब तक निर्देश न मिले इस पुस्तिका को मत खोलिए। पुस्तिका खोलने का निर्देश मिलने पर पुस्तिका के बाएं किनारे पर लगे हए मुडे हुए तार निकालने का प्रयास न करें। पेंसिल के पिछले भाग की मदद से दाहिनी तरफ लगे स्टीकर को फाडकर पुस्तिका को खोलें।
- पुस्तिका खोलते ही जांच लीजिए कि सभी पष्ट जिन पर प्रश्न 1 से 100 हैं, सही प्रकार से छपे हुए हैं और फिर प्रश्नावलियों के उत्तर देना प्रारंभ कीजिए। यदि पुस्तिका दोषपूर्ण हो तो इसे उसी प्रश्नावली प्रारूप क्रमांकवाली दूसरी प्रश्नपुस्तिका से बदलवा लीजिए।

This Booklet contains three tests as follows:

Test I - English Language O.Nos. Test II - Quantitative Aptitude Q.Nos. Test III- Reasoning O.Nos. 66-100

- You will be given an aggregate time of 1:00 hour to answer all the three tests. The tests are not separately timed. You may distribute the time as you please but remember that to qualify in the written test as a whole you have to qualify on each of the three tests separately.
- Tests of Reasoning and Quantitative Aptitude are printed in both Hindi and English. The Hindi version is printed on the left hand side page and the English version on the right hand side page.
- There will be penalty for wrong answers marked by you. For each question for which a wrong answer has been given by you, one-fourth or 0.25 of the marks assigned to that question will be deducted as penalty.
- Rough work, if you want to do any, is to be done in this booklet itself and not on the answersheet. For this purpose use the empty space in the margin or anywhere else you find in this booklet. Do not use any other paper.
- Indicate your answers on the separate answersheet (given at the end of the booklet), using HB Pencil. Follow the instructions given on the answersheet for indicating your answers.
- Your answersheet contains answer-spaces for answering 100 questions. Use 100 answer spaces for answering the 100 questions given in this booklet.
- Do not open the booklet until you are told to do so. When the instruction for opening the booklet is given, do not try to remove the wire staples at the left. Insert the blunt end of your pencil under the sticker and tear it to open the booklet.
- Immediately after opening the booklet, verify that all the pages containing questions from 1 to 100 are properly printed in your booklet and then begin answering the test. In case the booklet is defective get it replaced by another test booklet.

Test I English Language

Directions (Q. 1-5): Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is 5). (Ignore the errors of punctuation, if any.)

- 1. 1) Any material change in the status /2) of a borrower has to be /3) communicated to the credit information company /4) into a specified time period. /5) No error
- 2. 1) Given the instances for /2) misuse of personal information /3) it is critical that /4) borrowers' data are adequately protected. /5) No error
- 3. 1) Islam does recognise the /2) necessity for divorce in cases where /3) marital relations have been much poisoned /4) that peaceful domestic life is impossible. /5) No error
- 4. 1) To meet the competition in /2) IT-enabled services /3) India needs to /4) improve its physical infrastructure. /5) No error
- 5. 1) If China can become /2) the world's manufacturing hub /3) and extract know-how benefits /4) India can surely do. /5) No error

Directions (Q. 6-10): In the following passage there are blanks, each of which has been numbered. These numbers are printed behw the passage and against each, five words are suggested, one of which fife the blank appropriately. Find out the appropriate word in each case.

One of the more marked test of character is the manner in which we $(\underline{6})$ ourselves towards others, a graceful behaviour, towards superiors, inferiors, and $(\underline{7})$ is constant source of pleasure. It pleases others because it indicates $(\underline{8})$ for their personality, but it gives tenfold more $(\underline{9})$ to ourselves. Every man may, to large extent be a self educator in good $(\underline{10})$ as in every else, he can be civil and kind if he thinks he has not a penny in his purse.

6.	1) conduct	2) manage	3) nature	4) present	5) dispose
7.	1) equals	2) juniors	3) seniors	4) superiors	5) priors
8.	1) happiness	2) honour	3) regard	4) respect	5) influence
9.	1) force	2) requirement	3) pleasure	4) dedication	5) loudness
10.	1) status	2) behaviour	3) character	4) career	5) condition

Directions (Q. 11–15): Each question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each pair of blanks that best fits the meaning of the sentence as a whole.

11.	The Hindi film industry is now	good to art	fists to do something new.
	1) checking, potential	2) providing, remittance	3) spending, money
4	4) offering, opportunities	5) making, access	
12.	The supporters flags and to address.	d gathered outside his residen	ce to him to the seminar which he was going
	1) raised, accompany	2) hoisted, move	3) lifted, develop
	4) lifted, fuel	5) moved, empower	
13.	The earthquake, which was	at around 4pm	95 km east of Kathmandu.
	1) observed, started	2) felt, exhibit	3) assumed, emerged
	4) anticipated, came	5) felt, struck	
14.	This robot is of	pictures with fibre optic an	nd satellite communication.
	1) made, making	2) capable, taking	3) inevitable, cropping
	4) enhanced, creating	5) significant saving	

	1) do, inequality4) establish, growth	/ 1	n, branch transformed	3) merge,	operations
mea	ningful paragraph; th (A) Devika was told (B) Even though the (C) Her boss had tol (D) Her boss asked	en answer the questions that the report was urge	given below them: ent. le she could not finish it. orning. ce was about to close.	, D and E in the	proper sequence so as to form a
16.	Which sentence should 1) A	ald come THIRD in the 2) B	paragraph? 3) C	4) D	5)E
17.	Which sentence show 1) A	ald come FIRST in the p	paragraph?	4) D	5)E
18.	Which sentence show 1) A	ald come LAST in the p 2) B	aragraph? 3) C	4) D	5)E
19.	Which sentence show 1) A	ald come SECOND in the 2) B	ne paragraph? 3) C	4) D	5)E
20.	Which sentence shou	ald come FOURTH in the		4) D	5) F

into a full-fledged scheduled commercial bank.

Bandhan Bank is the first microfinance company to

Directions (Q. 21-30): Read the passage carefully and answer the questions given below it. Certain words/phrases are given in bold to help you locate them while answering some of the questions.

The RBI orders a moratorium when a bank's financial stability is **threatened**. Depositors face some restrictions on withdrawing money from their accounts during this period. Currently the restriction is confined to premature withdrawal of FDs in case of Kapol Bank. Customers can still withdraw money from their savings and current accounts. However, the Banking Regulation Act has provisions for relief to customers facing a financial emergency. "Banks' administrative board can approach the RBI with a plea for relaxing the withdrawal limits in case of account holders such as those who have saved or deposited money for their medical treatment or educational purpose and pensioners," says VN Kulkarni, chief credit counsellor with the Bank of India-backed Abhay Credit Counselling Centre.

Since one cannot do much after the bank gets into trouble or the RBI comes into the **picture**, it would be wise to take some precautions. "Depositors need to be selective not only in choosing the bank, but also in depositing the amount using different combinations," says Kulkarni. For instance, you can maintain the first deposit in your name, held jointly with your spouse or children. Similarly, the second joint FD could be created with your wife as the first holder. This will help you benefit from the deposit insurance cover extended to retail depositors.

Currently, deposits are insured up to ₹1 lakh per bank, and not per branch of the same bank. You can also look at maintaining FDs in more than one bank to spread out the risk.

However, this may not be feasible for some individuals. For instance, a retiree who wishes to invest her huge retirement corpus in FDs. "It is not feasible to split a huge amount of, say, ₹50 lakh into 50 deposits with different banks. Senior citizens have to **strike** a balance between convenience, risks and higher returns that some of the smaller banks offer," says Suresh Sadagopan, certified financial planner and founder, Ladder7 Financial Advisories. He recommends **diversification** by investing in fixed-income options like company FDs, non-convertible debentures (NCDs) as also more secure alternatives such as tax-free bonds and senior citizens savings scheme, which offers an interest rate of 9.2 %. You must also evaluate the bank's credentials carefully before **parking** your money in it. "While selecting the bank, you need to ascertain its gross NPAs. It should be not higher than 5%. Similarly, ensure that your bank has adequate capital as prescribed by the regulators," says Kulkarni. "That is, minimum 9% of risk-weighted assets, and at least 12%, in case of co-operative banks." You will find this information in the balance sheets of banks.

21.	(A) Only senior citize(B) Maturity amount	is paid in instalments ons are imposed on wi 2) Or		_	cal treatment.
22.	(A) Every branch of(B) FD can be maintagea very huge amount	a bank allows insurar ained in more than on unt in FDs. re allowed extra risk o 2) Or	nce covers on deposits the bank to spread out to		n of retirees wishing to invest
23.	Which of the followir 1) It is a private secto 2) At present, premate 3) Customers of this b	ng is not definitely tru r bank. ure withdrawal of FD oank have been allowe	ue with respect to Kap	ey from their CASA.	
24.	(A) The NPA of the c(B) The bank has add	concerned bank is not equate capital as per rum 9% of risk-weigh 2) Or	thigher than five per of the provisions for the		ve bank).
25.	beyond withdrawa 2) When the bank ge the amount using of	cumstances, account I limit as per the provents into trouble it is be different combination Il stability of a bank is	holders facing finance risions laid down in the otter for a depositor to as.	ial emergency can be a Banking Regulation A	osing the bank and depositing
pass): Choose the word w	vhich is most similar i	n meaning to the word	printed in bold as used in the
26.	Parking 1) removing	2) depositing	3) stopping	4) walking	5) strolling
27.	Picture 1) scene	2) mainstream	3) portrait	4) role	5) forefront
28.	Diversification 1) variegation	2) homogenous	3) allocation	4) division	5) accumulation

Directions (Q. 29-30): Choose the word/group of words which is most opposite in meaning of the word/group of words printed in bold as used in the passage.

29. Threatened

1) warned 2) jeopardised 3) ensured 4) exposed 5) vulnerable

30. Strike

1) maintain 2) hit 3) knock 4) lose 5) smack



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Test II Quantitative Aptitude

Directions (Q. 31-35): In each of the following questions two equations are given. On the basis of the given equation find the relationship between p and q. Mark answer –

$$1) if p = q$$

4) if
$$p \ge q$$

2) if
$$p > q$$

5) if
$$q \ge p$$
 or if you cannot establish any relation between p and q.

31. **I.**
$$42p^2 + 53p + 15 = 0$$

32. **I.**
$$p^2 + 24p + 143 = 0$$

33. **I.**
$$p^2 - 14p + 48 = 0$$

34. **I.**
$$6p^2 - 41p + 63 = 0$$

35. **I.**
$$p^2 - 14p + 45 = 0$$

II.
$$42p^2 - 53q + 15 = 0$$

II.
$$q^2 + 6q - 55 = 0$$

II.
$$q^2 + 16q + 63 = 0$$

II.
$$6q^2 - 59q + 143 = 0$$

II.
$$q^2 - 8q + 15 = 0$$

Directions (Q. 36-40): In each of the following number series a wrong number is given. Find out the wrong number.

120 136 142 132 100 60 36.

- 2) 142
- 3) 132

3)80

- 4) 100
- 5)60

- 37. 5 20 80 610 6140 73630 1)5 2)20

 - 117484 14679 2094 345 64 10
- 3)2094
- 4)610

4) 345

5)6140

5)64

- 1) 117484 2) 14679
 - 1)6

38.

39.

6 15 33 59 96 141 2) 15

Nesk

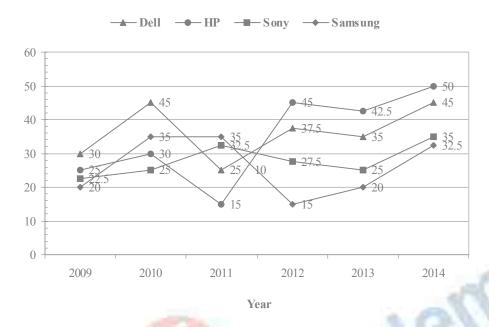
- 3)33
- 4)59
- 5) None of these

- 40. 200 208 321 652 1641 4935
 - 1)208
- 2)321
- 3)652
- 4) 1641
- 5) None of these

BSC Academy

Directions (Q. 41-45): Study the following graph carefully and answer the questions given below:

The graph given below shows the sales of Laptops of (in thousands) of different companies in India in six different years.



- 41. Which of the following companies recorded maximum percentage increase in the sale in the year 2014 as compared to the year 2009?
 1) Dell 2) HP 3) Samsung 4) Sony 5) Both 2 and 3
- 42. What is the approximate percentage increase in the total sales of laptop, of all companies together in the year 2014 as compared to the year 2009?
 - 1)50.67%
- 2) 62.67%
- 3) 56.67%
- 4) 66.67%
- 5) 52.47%
- 43. In which of the following year, the average sale of the companies together is minimum?
 - 1)2009
- 2) 2014
- 3)2013
- 4)2011
- 5)2012
- 44. The total sales of sony in all the years together is approximately what percent more or less than the total sales of Dell in all the years together?
 - 1) 23% more
- 2) 29% less
- 3) 23% less
- 4) 26% less
- 5) 28% more
- 45. Which of the following companies recorded second highest average sales of laptop in all the years together?
 - 1) Samsung
- 2) Dell
- 3) Sony
- 4) HP
- 5) Either 2 or 3
- 46. Eight litres of milk is drawn from a container full of milk and it is then filled with water. Eight litres of the mixtures are drawn and the container is again filled with water. The quantity of milk now left in the container is to that of water in it is 121:23. How much milk does the container hold?
 - 1) 102 litre
- 2) 92 litre
- 3) 96 litre
- 4) 64 litre
- 5) 48 litre
- 47. When two dice are thrown, what is the probability that the sum of the numbers appeared is less than 8?
 - 1) 5/12
- 2) 5/6
- 3)3/4
- 4) 8/11
- 5) 7/12
- 48. Two men undertook to do a piece of work of ₹ 400. One alone could do it in 6 days, the other in 8 days. With the assistance of a boy they finish it in 3 days. Find the share of boy.
 - 1)₹25
- 2)₹50
- 3)₹75
- 4) ₹ 100
- 5)₹60
- 49. Find the compound interest earned on a sum of ₹ 2,00,000 for 2 years at 8% interest p.a compounded half yearly?
 - 1)₹33971.712
- 2)₹33971
- 3)₹32971
- 4)₹35891.614
- 5)₹34971.712

50.	Find the area of an eq 1) 49 cm ²	uilateral triangle whose 2) 44.784 cm ²	height is 9 cm. 3) 46. 764 cm ²	4) 42 cm ²	5) 52.784 cm ²
quali	The following pie ch		of appeared candidates	e-charts. in a competitive exam fr mber of qualified candid	
			B 1% C 8%	G A 19% 19% 15% D 7% 21%	/
51.	What is the ratio of t from states A and F to 1) 3:5		candidates from states (3) 17:33	C and E together to that 4) 33:17	of appeared candidates 5) None of these
52.	In which state the per 1) A	rcentage of qualified can 2)B	adidates with respect to a 3) C	appeared candidates is m 4) D	naximum? 5) None of these
53.	What is the difference 1) 504	te between the numbers 2) 680	of appeared candidates 3) 1080	of states B and E? 4) 1260	5) None of these
54.	What is the percentatogether? 1)74.07	age of qualified candid 2)65.8	ates with respect to ap	peared candidates from 4)18.7	states A and D taken 5)60.12
55.	, and the second second	· ·		d D together to the numbe	<i></i>
56.			-	4) 297 : 224 class of 28 students. A gree selected group of stude	_
57.	1) $\frac{14}{71}$ A square room is surroom?	2) $\frac{14}{117}$ rounded by a verandah of	3) $\frac{20}{71}$ Swidth 6 m. If the area of	4) $\frac{20}{117}$ fthe verandah is 696 sq n	5) None of these n, what is the area of the
58.	1) 441 sq m	2) 484 sq m around a circular table. I	3) 529 sq m n how many ways can th	4) 576 sq m ey be seated if six particul	5) None of these lar persons are to always
59.	1) 18! × 6!	2) $17! \times 5!$ at a profit of 45%. Had h	3) 13! × 6! e sold it for ₹1463 more,	4) 12! × 6! he would have gained 64	5) $12! \times 5!$ %. What is the cost price
60.	1)₹72 A person divided a su			4)₹78 Ifferent banks at the rate hat is the amount deposite 4)₹42000	

Directions (Q. 61–65): Study the following information carefully and answer the questions given below:

A school consists of 5100 students. The ratio of boys to girls is 6: 11 respectively. All the students are hobby classes viz; Drama, Dancing and Singing. 14% of the total boys learn only Dancing. 27% of the total girls learn only Drama. The

number of students enrolled in only singing is 1335. $\frac{1}{5}$ of the total boys are enrolled in all the three classes. Number of girls

enrolled only in Dancing is 200% of the boys enrolled in the same. The remaining girls are enrolled in all the three classes. 20% of the boys are enrolled only in Drama and the remaining enrolled only in Singing.

61.	How many	students	are enro	lled or	ılv in	Drama
UI.	TIOW IIIaii	Students	ar c ciii o	iicu oi	111 / 111	Diama:

1) 1215

2) 1240

3) 1251

4) 1351

5) 1291

62. What is the number of girls enrolled in all the three classes together?

1) 1398

2) 1298

3) 1389

4) 1428

5) 1318

63. Number of boys enrolled in Singing only is approximately what percent of the number of girls enrolled in the same?

1) 146%

2) 160%

3) 152%

4) 163%

5) 154%

64. What is the respective ratio of the number of boys enrolled only in Drama to the number of girls enrolled in the same?

1)44:103

2) 40:99

3)41:99

4) 41:101

5) 40:91

65. How many boys are enrolled in Dancing?

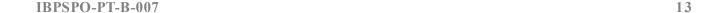
1)252

2)350

3)360

4) 465

5)612



Test III Reasoning Ability

Directions (Q. 66-70): In each question below, there are three statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

All dolls are windows. All bottles are windows. 66. **Statements:** All cars are bottles. L All cars are windows. **Conclusions: II.** No cars are dolls. **III.** All doll being cars is a possibility. 1) Only I and II follow 2) Only II and III follow 3) Only I and III follow 4) All follow 5) None of these **Statements:** Some players are balls. All balls are circles. Some tigers are balls. **Conclusions:** Some circles are tigers. **II.** Some players are not circles. III. All circles being players is a possibility. 1) Only I and II follow 2) Only II follows 3) Only I and III follow 4) Only III follows 5) None of these Some surgeons are editors. **Statements:** Some chemists are surgeons. Some editors are translators. Some translators are surgeons. **Conclusions: II.** All editors being surgeons is a possibility. **III.** Some editors are chemists. 1) None follows 2) Only I follows 3) Only II follows 4) Only III follows 5) All follow All mangoes are apples. No apple is a fruit. **Statements:** All branches are fruits. **Conclusions:** Some branches are mangoes. No fruit is a mango. III. No mango is branch. 1) None follows 2) Either I or III follows 3) Only I follows 4) Either I or II or III follows 5) None of these All employees are workers. 70. Statements: No manager is a worker. Some actors are managers. **Conclusions:** Some workers are actors. **II.** No actor is a employee. **III.** All workers being actors is a possibility. 1) None follows 2) Only I follows 3) Only II follows 4) Only III follows

Directions (Q. 71-75): In the following questions, the symbols @, \mathbb{C} , +, % and # are used with the meaning as indicating below.

'P @ Q' means 'P is not greater than Q'.

5) Either I or II follows

'P © Q' means 'P is not smaller than Q'.

```
'P % Q' means 'P is neither smaller than nor equal to Q'.
'P # Q' means 'P is neither greater than nor equal to Q'.
'P + Q' means 'P is neither smaller than nor greater than Q'.
Now in each of the following question, assuming the given seen below them is/are definitely true. Give answer:—
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Now in each of the following question, assuming the given statements to be true. Find which of the two conclusions I and II given below them is/are definitely true. Give answer:—

- 1) if only conclusion I is true.
- 2) if only conclusion II is true.
- 3) if either conclusion I or II is true.
- 4) if neither conclusion I nor II is true.
- 5) if both conclusion I and II are true.
- 71. **Statements:** C # D @ N % X, N @ U + O % A

Conclusions: I. C#O

II. X@O

72. Statements: T % S + J a D, S c Q + F % B

Conclusions: I. D%F

73. **Statements:** V @ R + W, K @ E @ V, E @ N + Y

Conclusions: I. K#Y
II. W©Y

74. **Statements:** $H \odot P + T$, $P \oslash S \# L$, $T \odot J + U$

Conclusions: I. U#S
II. L©U

75. Statements: F @ D + N, O © T + S % J, D @ J % R

Conclusions: I. O%F
II. O%R

Directions (Q. 76-80): Study the following information carefully and answer the given questions.

Six persons—A, B, C, D, E and F—stay on different floors of a six-storey building (ground floor is numbered as floor 1 and top floor is numbered as floor 6). Each of them is in a different profession, viz Doctor, Engineer, Lawyer, Architect, Journalist and Teacher.

D is a lawyer but stays neither on floor 2 nor on floor 5. B is neither an Architect nor a Journalist but stays on floor 6. The Journalist doesn't stay below the floor of the Architect but stays below the floor of the Engineer. The Teacher stays either on floor 1 or on floor 4. E doesn't stay on an odd-numbered floor. A, who stays on floor 4, is either a Journalist or an Architect. Either C or F is an Engineer.

76. If F stays on floor 1, what is the profession of C?

1) Lawyer 2) Engineer

3) Teacher

4) Architect

5) Can't be determined

77. Who stays on floor 3?

1) Engineer

2) Lawyer

3) Doctor

4) Architect

5) Teacher

78. Which of the following combinations is definitely true?

1) C-Teacher-Floor 1

2) D-Lawyer-Floor 5

3) E-Architect-Floor 2

adem

4) F-Engineer-Floor 5

5) None of these

79. Which of the following combinations is definitely false?

1) A–Journalist–Floor 2

2) B–Doctor–Floor 6

3) E-Architect-Floor 2

4) D–Lawyer–Floor 3

5) None of these

80. If the Journalist stays on Floor 2, which floor will the Engineer stay on?

1)1

2)5

3)4

4)6

5) Can't say exactly

Directions (Q. 81-85): Study the following information carefully and answer the given questions.

Who among the following sits third to the left of H?

Eight friends—A, B, C, D, E, F, G and H—are sitting around a square table in such a way that four of them sit at four corners of the table while the other four sit in the middle of the four sides. Those who sit in the middle of the four sides face the centre while those who sit at the four corners face outside.

A sits third to the left of C, who does not sit at any of the corners. E sits to the left but not on the immediate left of F, who is not an immediate neighbour of C. B and H are the immediate neighbours of neither each other nor of A and D respectively.

D does not sit in the middle of any sides and at least two persons can sit between A and D. E and G sit opposite each other but do not face each other. F cannot sit opposite C.

	1)B	2)G	3)D	4) C	5) None of these
82.	What is the position 1) Third to the left 4) Second to the righ	of B with respect to F?	2) Third to the right 5) None of these		3) Fourth to the left
83.	Who among the follo 1) HG	wing represent the immed 2) GA	ediate neighbours of F? 3) BE	4) AH	5) None of these
84.	-	ged clockwise in alphaben his original position?	etical order starting from	n A (A retains his origina	l position), which of the
	1) H	2)G	3) D	4) E	5) None of these
85.	Who among the follow 1) B	wing sits exactly between 2) H	D and G? 3) F	4) C	5) None of these
car h seati row i	as six seats immediate ng arrangement follow Neither P nor Y nor the respectively. Y and Z as a ahead of him. P is frien	ly next to six windows. The pattern as given be neir friends sit in the from the only two persons of t	The driver's seat is at the elow. It row, which consists of who do not sit next to a wine row in which R sits, b	ow has two seats, including extreme right side in the street two seats. X and R sit in window. Q sits in the samut not in the same column	front row of the car. The the 2nd row and the 3rd ne column as W and one
86.	Who among the follo	owing is sitting just besice 2) R	de the right window of the 3) S	ne last row? 4) Q or R	5) R or S
87.	Who among these eight 1) W	ght persons is driving th 2) P	e car? 3) Q	4) R	5) S
88.	Who must be sitting to 1) W	to the immediate right of 2) X	?Y? 3)Q	4) R	5) S
89.	1) S and W are in san	ng is definitely true regar ne row itting in the same row	rding their position? 2) Both W and Y are si 4) All are true	tting besides window.	
90.	Who among the follo	owing is sitting at last bu 2) Z	at one row?	4) X or W	5) Both X & Y

Directions (Q. 91-95): Read the following information carefully and answer the questions given below: A, B, C, D, E, F, G, H, I and J are ten persons sitting around a circular table facing towards the centre of the table. Now read the following clues before answering the questions given.

()	i) A is sitting third to ii) F is sitting third to iii) C is sitting fourth to iv) Only B is sitting b v) I is sitting adjacen vi) E is not sitting thir	o the right of H. to the right of G. between E and J. t to C.		ond to the left of G.			
91.	Who is sitting third to 1) J 4) Data inadequate	the left of C?	2) D 5) None	of these		3)G	
92.	Who is sitting on the in 1) C 4) Data inadequate	immediate righ	t of I? 2) J 5) None	of these		3)F	
93.	In which of the follow	ving pairs is sec	cond perso	on sitting fourth to t	he rig	ght of the first?	
	1) C, B	2) H, E		3) G, F	4	4) B, C	5) A, B
94.	Four of the following following does not be 1) H, C			o their seating arran		ent and hence form a gr 4) A, D	oup. Which of the 5) C, I
95.	Which of the followin 1) F is the neighbour 4) H is sitting between	of I	2) A is th	nitely true? ne neighbour of H tting second to the lo	eft of	3) B is sitting thin	rd to the left of A
and fi		age 'jump and ru	n away' is	writt <mark>en as</mark> 'tm j <mark>d qm n</mark>	ni', 'do	l answer the questions n't run too fast' is written i lt'.	
96.	Which of the followin 1) ki ni	ng represents th 2) ki zn	e code for	r 'don't jump' in the 3) zn ni	_	code language? 4) ni sa	5) None of these
97.	What is the code for 1) ni	'you'? 2) lt	130	3) sa	4	4) zn	5) None of these
98.	What does the code 1) furious	'tec' stands for? 2) watch)	3) Either 1 or 2	4	4) and	5) None of these
99.	What is the code for '	away'?					

fast

5) None of these

5) None of these

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3) ni

3) jd tec ni

4) jd

4) lt zn ni

2) tm

100. Which of the following may be represent the code for 'fast and fly? 2) lt jd ti

1) am

1) lt jd zn

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- 1. 4; Replace 'into' with 'in'.
- 2. 1; Replace 'for' with 'of'.
- 3. 3; Replace 'much' with 'so'.
- 4. 5
- 5. 4; Add 'so' after do.
- 6. 1 7. 1 8. 4

17.1

22. 2

27. 1

- 11. 4 12. 1 13. 5
- (26-30): ACBDE
 - 16. 2 21. 3

26. 2

- 18. 5 23. 1

28. 1

19. 3

9.3

14. 2

- 24. 5
- 24. 5
- 25. 2 30. 4

10.2

15.5

20.4

- 31. 3; **I.** $42p^2 + 53p + 15 = 0$
 - or, $42p^2 + 18p + 35p + 15 = 0$
 - or, 6p(7p + 3) + 5(7p + 3) = 0
 - or, (6p + 5)(7p + 3) = 0
 - $\therefore p = -\frac{5}{6} \text{ or } \frac{-3}{7}$
 - II. $42q^2 53q + 15 = 0$
 - or, $42q^2 18q 35q + 15 = 0$
 - or, 6q(7q 3) 5(7q 3) = 0
 - or, (6q 5)(7q 3) = 0
 - or, $q = \frac{5}{6}$ or $\frac{3}{7}$
 - Hence, q > p.
- 32. 5; **I.** $p^2 + 24p + 143 = 0$
 - or, $p^2 + 11p + 13p + 143 = 0$
 - or, p(p + 11) + 13(p + 11) = 0
 - or, (p + 13) (p + 11) = 0
 - p = -11 or -13
 - II. $q^2 + 6q 55 = 0$
 - or, $q^2 5q + 11q 55 = 0$
 - or, q(q-5) + 11(q-5) = 0
 - or, (q + 11)(q 5) = 0
 - \therefore q = -11 or 5
 - Hence $q \ge p$
- 33. 2;; **I.** $p^2 14p + 48 = 0$
 - or, $p^2 8p 6p + 48 = 0$
 - or, p(p 8) 6(p 8) = 0
 - or, (p 6)(p 8) = 0
 - p = 6 or 8
 - II. $q^2 + 16q + 63 = 0$
 - or, $q^2 + 7q + 9q + 63 = 0$
 - or, q(q + 7) + 9(q + 7) = 0
 - or, (q + 9) (q + 7) = 0
 - q = -9 or -7
 - Hence p > q.
- 34. 5; **I.** $6p^2 41p + 63 = 0$

- or, $6p^2 27p 14p + 63 = 0$
- or, 3p(2p 9) 7(2p 9) = 0
- or, (3p 7)(2p 9) = 0
- $p = \frac{7}{3}$ or $\frac{9}{2}$
- II. $6q^2 59q + 143 = 0$
 - or, $6q^2 33q 26q + 143 = 0$
 - or, 3q(2q 11) 13(2q 11) = 0
 - or, (3q 13)(2q 11) = 0
 - \therefore q = $\frac{13}{3}$ or $\frac{11}{2}$

We can't get any specific relationship between p and q.

- 35. 4; **I.** $p^2 14p + 45 = 0$
 - or, $p^2 5p 9p + 45 = 0$
 - or, p(p 5) 9(p 5) = 0
 - or, (p 9) (p 5) = 0
 - or, p = 9 or 5
 - II. $q^2 8q + 15 = 0$
 - or, $q^2 5q 3q + 15 = 0$
 - or, q(q-5)-3(q-5)=0
 - or, (q-3)(q-5)=0
 - \therefore q = 3 or 5

Hence $p \ge q$.

- 36. 5; $11^2 1^3 = 120$
 - $12^2 2^3 = 136$
 - $13^2 3^3 = 142$
 - $14^2 4^3 = 132$
 - $15^2 5^3 = 100$
 - $16^2 6^3 = 40$

Hence, the wrong number in the series is 60.

- 37. 2; $5 \times 4 10 = 10$
 - $10 \times 6 + 20 = 80$
 - $80 \times 8 30 = 610$
 - $610 \times 10 + 40 = 6140$
 - $6140 \times 12 50 = 73630$
 - Hence, the wrong number in the series is 20.
- 38. 1; $117448 \div 8 2 = 14679$
 - $14679 \div 7 3 = 2094$
 - $2094 \div 6 4 = 345$
 - $345 \div 5 5 = 64$
 - $64 \div 4 6 = 10$

Hence the wrong number in the series is 117484.

- 39. 4; $6 + 1^2 + (8 \times 1) = 15$
 - $15 + 2^2 + (7 \times 2) = 33$
 - $33 + 3^2 + (6 \times 3) = 60$
 - $60 + 4^2 + (5 \times 4) = 96$
 - $96 + 5^2 + (4 \times 5) = 141$

Hence the wrong number in the series is 59.

- 40. 5; $200 \times 1 + 8 = 208$
 - $208 \times 1.5 + 9 = 321$
 - $321 \times 2 + 10 = 652$

$$652 \times 2.5 + 11 = 1641$$

 $1641 \times 3 + 12 = 4935$

There is no wrong number in the series.

41. 2; The percentage increase in sales in the year 2014 as compared to the year 2009 of different companies are as follows:

Dell =
$$\frac{45-30}{30} \times 100 = 50\%$$

$$HP = \frac{50 - 25}{25} \times 100 = 100\%$$

Sony =
$$\frac{35 - 22.5}{22.5} \times 100 = 55.56\%$$

Samsung =
$$\frac{32.5 - 20}{20} \times 100 = 62.5\%$$

Hence maximum is of HP.

42. 4; Required percentage increase

$$=\frac{\left(45+50+35+32.5\right)-\left(30+25+22.5+20\right)}{30+25+22.5+20}\times100$$

$$=\frac{162.5 - 97.5}{97.5} \times 100 \approx 66.67\%$$

43. 1; Average sales (in thousands) of all the companies together in the years are as follows:

$$2009 = \frac{30 + 25 + 22.5 + 20}{4} = 24.375$$

$$2010 = \frac{45 + 30 + 25 + 35}{4} = 33.75$$

$$2011 = \frac{25 + 15 + 32.5 + 35}{4} = 26.875$$

$$2012 = \frac{37.5 + 45 + 27.5 + 15}{4} = 31.25$$

$$2013 = \frac{35 + 42.5 + 25 + 20}{4} = 30.625$$

$$2014 = \frac{45 + 50 + 35 + 32.5}{4} = 40.625$$

44. 3; Total sales of Sony (in thousand)

$$= 22.5 + 25 + 32.5 + 27.5 + 25 + 35 = 167.5$$

Total sales of Dell (in thousand)

$$= 30 + 45 + 25 + 37.5 + 35 + 45 = 217.5$$

∴ Required percentage less =
$$\frac{217.5 - 167.5}{217.5} \times 100 \approx 23\%$$

45. 4; Average sales of laptops (in thousand) different companies in all the years together

Dell =
$$\frac{30+45+25+37.5+35+45}{6}$$
 = 36.25

$$HP = \frac{25+30+15+45+42.5+50}{6} = 34.58$$

Sony =
$$\frac{22.5 + 25 + 32.5 + 27.5 + 25 + 30}{6}$$
 = 27.92

Samsung =
$$\frac{20+30+35+15+20+32.5}{6}$$
 = 26.25

Hence, second highest is in HP

46. 3; Capacity of container

$$= \frac{8}{1 - \left(\frac{121}{144}\right)^{1/2}} = \frac{8}{1 - \frac{11}{12}} = 8 \times 12 = 96 \text{ litre}$$

47. 5; Desired sum of numbers are 2, 3, 4, 5, 6, 7

$$\begin{aligned} n & (E) = \{(1,1); (1,2); (1,3); (1,4); (1,5); (1,6); (2,1); (2,2); \\ & (2,3); (2,4); (2,5); (3,1); (3,2); (3,3); (3,4); (4,1); \\ & (4,2); (4,3); (5,1); (5,2), (6,1)\} \end{aligned}$$

$$(4,2), (4,3), (3,1), (3,1)$$

= $6+5+4+3+2+1=21$

And
$$n(s) = 36$$

$$\therefore \text{ Required probability} = \frac{21}{36} = \frac{7}{12}$$

48. 2; Boy's share =
$$x \left[1 - \left(\frac{x+y}{xy} \right) d \right]$$

Where
$$X = ₹ 400$$

$$x = 6, y = 8, d = 3$$

∴ Boy's share =
$$400 \left[1 - \left(\frac{6+8}{6 \times 8} \right) \times 3 \right]$$

= $400 \left[1 - \frac{14}{6 \times 8} \times 2 \right] = 400 \left[1 - \frac{7}{8} \right]$
= $400 \times \frac{1}{8} = ₹50$

49. 1; Compound interest = 200000
$$\left(1 + \frac{8}{200}\right)^4 - 2,00,000$$

= 200000
$$\left(\frac{26}{25}\right)^4$$
 - 2,00,000
= 233971.712 - 200000 = ₹ 33971.712

50. 3; Side =
$$9 \times \frac{2}{\sqrt{3}} = 6\sqrt{3}$$

$$\therefore$$
 Area = $\frac{\sqrt{3}}{4} \times 6\sqrt{3} \times 6\sqrt{3}$ $(\sqrt{3} = 1.732) = 46.764 \text{ cm}^2$

51.3;

	Total Appeared	Total Qualified
A	8100	5760
В	5940	3520
С	4320	2240
D	9180	6720
Е	4860	4480
F	9720	3520
G	11880	4160

= 4320 + 4860 : 8100 +9720

= 9180 : 17820

	= 17:33	
52. 5;	$A \rightarrow 71.11\%$	$B \rightarrow 59.26\%$
	$C \rightarrow 51.85\%$	$D \rightarrow 73.20\%$
	$E \to 92.18\%$	$F \rightarrow 36.21\%$
	$G \rightarrow 35.02\%$	

53. 3; Difference = 5940 - 4860 = 1080

54. 1;
$$\frac{12800}{17280} \times 100 = 74.07\%$$

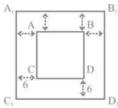
56. 4; Total = 28 :: Boys = 20, Girls = 8

$$n(S) = {}^{28}C_3 = 3276$$

 $n(E) = {}^{20}C_1 \times {}^{8}C_2 = 20 \times 28 = 560$

$$\therefore P(E) = \frac{n(E)}{n(S)} = \frac{560}{3276} = \frac{140}{819} = \frac{20}{117}$$

57. 3; Let the side of the room be x metres.



Area of the verandah =
$$2 \times \{(x + 12) \times 6 + 6 \times x\} = 696$$

or, $12 \{(x + 12) + x\} = 696$
 $\therefore 2x + 12 = 58$

$$\therefore 2x = \frac{58-12}{2} = \frac{46}{2} = 23 \text{ m}$$

 \therefore Area of the square = $x^2 = (23)^2 = 529$ sqm

- **58.** 4; We assume the six particular persons as one. So, total number of persons is 18 6 + 1 = 13 and they can sit around a circular table in 12! ways. Six particular persons can sit in 6! ways among themselves.
 - \therefore Total number of ways = 12! \times 6!

59. 3; Let the amount be x.

$$\therefore x \times 1.64 - x \times 1.45 = 14.63$$

 $0.19x = 14.63$

$$\therefore x = \frac{14.63}{0.19} = 77$$

60. 1; Let the amount deposited at 17% be x.

$$\therefore \frac{x \times 17 \times 2}{100} + \frac{(72000 - x) \times 11 \times 2}{100} = 19080$$
or, $34x + 1584000 - 22x = 1908000$
or, $12x = 1908000 - 1584000 = 324000$

$$\therefore x = \frac{324000}{12} = 27000$$

(61-65):

Number of girls =
$$\frac{11}{17} \times 5100 = 3300$$

Number of boys =
$$\frac{6}{17} \times 5100 = 1800$$

	Boys	Girls
Only Drama	$20 \times 18 = 360$	$27 \times 33 = 891$
Only Dance	$14 \times 18 = 252$	$2 \times 252 = 504$
Only Singing	828	1335 - 828 = 507
Drama +Dance + Singing	1800/5 = 360	1398

61. 3; Total number students enrolled in only Drama

$$= 360 + 891 = 1251$$

62. 1; Required answer = 1398

63. 4; Required percentage =
$$\frac{828}{507} \times 100 \approx 163\%$$

- 64. 2; Required ratio = 360 : 891 = 40 : 99
- 65. 5; Required number of boys = 252 + 360 = 612
- 66. 3; All cars are bottles (A) + All bottles are windows
 (A) = A + A = A = All cars are windows. Hence, conclusion I follows. But conclusion II does not follow because there is not negative statement.
 Again, All dolls are windows → conversion → Some windows are dolls. Now, All cars are windows (A) + Some windows are dolls (I) = A + I = No conclusion III follows.
- 67. 3; Some players are balls (I) + All balls are circles (A) = I + A = I = Some players are circles. It means All circles being players is a possibility. Hence, conclusion III follows.

Again, Some tigers are balls (I) + All balls are circles (A) = I + A = I = Some tiger are circles \rightarrow implication \rightarrow Some circles are tigers. Hence, conclusion I follows. But conclusion II does not follow because there is no negative statement.

68. 3; Some surgeons are editors, it means All editors being surgeons is a possibility. Hence conclusion II follows.

Again, Some chemists are surgeons (I) + Some surgeons are editors (I) = I + I = No conclusion. Hence, conclusion III does not follow.

Now, Some surgeons are editors (I) + Some editors are translators (I) = I + I = No conclusion. Hence, conclusion I does not follow.

- 69. 5; All mangoes are apples (A) + No apple is a fruit (E) = A + E = E = No mango is a fruit → conversion → No fruit is a mango. Hence, conclusion II follows. Again, All branches are fruits (A) + No fruits is a mangoes (E) = A + E = E = No branches is a mangoes → conversion → No mango is a branch. Hence, conclusion III follows. But I does not follow.
- 70. 4; Some actors are managers (I) + No managers is a worker (E) = I + E = O = Some actors are not workers.

It means All workers being actors is a possibility. Hence, conclusion III follows. But I does not follows.

Again, No manager is a worker \rightarrow conversion \rightarrow Now worker is a manager.

Now, All employees are workers (A) + No worker is a managers = A + E = E = No employee is a managers \rightarrow conversion \rightarrow No manager is a employee (E)

So, Some actors are managers (I) + No manager is a employee (E) = I + E = O = Some actors are not employees. Thus, II does not follow.

(71-75):

$$P @ Q \rightarrow P \leq Q$$

$$P @ Q \rightarrow P \ge Q$$

$$P\%Q \rightarrow P > Q$$

$$P\,\#\,Q \to P < Q$$

$$P + Q \rightarrow P = Q$$

71. 1; Given statements:
$$C < D < N > X$$
 (i)

$$N < U = O > A$$
 (ii)

Combining (i) and (ii)

$$C < D \le N \le U = O > A$$

Comparing C and O

$$C < O \implies C \# O$$

thus I is true

$$A < O = U \ge N > X$$

Comparing X and O

$$X < O \implies X @ O$$

thus II is not true.

72. 3; Given statements: T > S = J < D (i)

$$S > O = F > B$$
 (ii)

Combining (i) and (ii)

$$B < F = Q < S = J < D$$

Comparing D and F

$$D > F \implies D \otimes F$$

thus I is not true

$$D > F \implies D \otimes F$$

thus, II is not true

Hence, either I or II is true.

73. 2; Given statements: V < R = W (i)

$$K \le E \le V$$
.....(ii)

$$E > N = Y$$
(iii)

Combining (ii) and (iii)

$$K \le E \ge N = Y$$

We can't compare K and Y

Hence I is not true.

Again, combining (i), (ii) and (iii)

$$Y = N \le E \le V \le R = W$$

Comparing W and Y

$$W > Y \implies W \odot Y$$

Thus, II is true

74. 4; Given statements: H > P = T (i)

$$P < S < L$$
(ii)

$$T > J = U$$
(iii)

Combining (i), (ii) and (iii)

$$U = J \le T = P \le S \le I$$

Comparing U and S

$$U < S \implies U @ S$$

thus I is not true

Comparing L and U

$$L > U \implies L \% U$$

Thus, II is also not true.

75. 5; Given statements: F < D = N (i)

$$O > T = S > J$$
 (ii)

$$D < J > R$$
 (iii)

Combining (i) (ii) and (iii)

We get,

$$O \ge T = S > J \ge D \ge F$$

Comparing O and F

$$O > F \implies O \% F$$

Thus I is true

$$O \ge T = S > J > R$$

Comparing O and R

$$O > R \implies O \% R$$

Thus, II is true

(76-80):

00).		
Person	Profession	Floor
В	Doctor	6
C/F	Engineer	5
A	Journalist	4
D	Lawyer	3
E	Architect	2
F/C	Teacher	1

76. 2; If F stays on floor 1, C will stay on floor 5 and then he will be the Engineer by profession.

80. 2; According to the given condition, the Journalist must stay below the floor of the Engineer. So, if the Journalist stays on floor 2, the condition is not violated. Therefore, the Engineer keeps on staying on floor 5, ie his original position.

(81-85):



81. 3

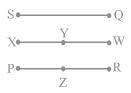
82. 3

83. 2

84. 2; Only G retains his original position.

85. 4; C sits exactly between D and G.

(86-90):



86. 2

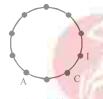
87. 3

88. 1

90.4 89. 5

(91-95): Let us arrange the positions of the ten persons. From clues (i) and (v), we get

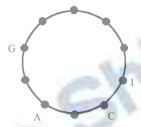




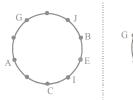
Possibility-I

Possibility-II

Now, using clue (iii), we reject possibility I.



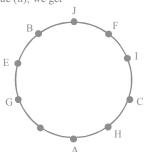
Now, from clues (iv) and (vi), we get two possible cases:



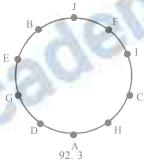
Possibility-II (a) Possibility-II (b)

Reject possibility II(a) because positions of F and H can't be arranged according to clue (ii).

Using clue (ii), we get



Now, by elimination we get that it is 'D' who is sitting between G and A. Thus the complete arrangement is as follows:



91. 2

93.1 94. 4; In others the second person is sitting on the immediate right of the first.

95.3 (96-100):

jump and run away \rightarrow tm jd qm ni ...(i) don't run too fast \rightarrow ki qm lt sa ...(ii) watch fast and furious \rightarrow lt kb jd tec ...(iii) you jump too fast →sa zn ni lt ...(iv) ...(v) From (i) and (ii), run →qm From (ii) and (iii), fast →lt ...(vi) From (i) and (iii), and \rightarrow jd ...(vii) From (i) and (iv), jump \rightarrow ni ...(viii) From (i), (v), (vii) and (viii), away \rightarrow tm ...(ix) From (ii), (iv) and (vi), too \rightarrow sa ...(x) From (ii), (v), (vi) and (x), don't \rightarrow ki ...(xi) From (iv), (vi), (viii) and (x), you \rightarrow zn ...(xii) From (iii), (vi) and (vii),

watch/furious → kb/tec ...(xiii) 96. 1 97.4 98. 3 99. 2 100.2