120 What is the ultimate numers of	MAN MARCH WELLOWS MAN AND A MAN AND	1122 is data that has
120.What is the ultimate purpose of		132 is data that has been organized or presented in a
Defragmentation? (A)Make the PC faster	one of the four major data processing	
	functions of a computer?	meaningful fashion.
(B)Create More Free Space	A. gathering data	A. A process
(C)Delete temporary files	B. processing data into information	B. Software
(D)Reduce Power consumption	C. analyzing the data or information	C. Storage
(E)All of the above	D. storing the data or information	D. Information
121. All of the following are	127 tags, when	133. The name for the way that
examples of real security and privacy	placed on an animal, can be used to	computers manipulate data into
risks EXCEPT:	record and track in a database all of	information is called:
A. hackers.	the animal's movements.	A. programming.
B. spam.	A. POS	B. processing.
C. viruses.	B. RFID	C. storing.
D. identity theft.	C. PPS	D. organizing.
	D. GPS	
122. A process known as		134. Computers gather data, which
is used by large	128. Surgeons can perform delicate	means that they allow users to
retailers to study trends.	operations by manipulating devices	data.
A. data mining	through computers instead of	A. present
B. data selection	manually. This technology is known	B. input
C. POS	as:	C. output
D. data conversion	A. robotics.	D. store
	B. computer forensics.	100000000000000000000000000000000000000
123. terminals	C. simulation.	135. After a picture has been taken
(formerly known as cash registers)	D. forecasting.	with a digital camera and processed
are often connected to complex	D. Torocaming.	appropriately, the actual print of the
inventory and sales computer	129. Technology no longer protected	picture is considered:
systems.	by copyright, available to everyone,	A. data.
A. Data	is considered to be:	B. output.
B. Point-of-sale (POS)	A. proprietary.	C. input.
C. Sales	B. open.	D. the process.
D. Query	C. experimental.	D. the process.
D. Query	D. in the public domain.	136. Computers use the
124. An system is a	b, in the public domain.	language to process
small, wireless handheld computer	130 is the study of	data.
that scans an item's tag and pulls up	molecules and structures whose size	A. processing
the current price (and any special	ranges from 1 to 100 nanometers.	B. kilobyte
	A. Nanoscience	C. binary
offers) as you shop. A. PSS	B. Microelectrodes	D. representational
B. POS		D. representational
	C. Computer forensics	127 Computers process data into
C. inventory	D. Artificial intelligence	137. Computers process data into
D. data mining	131. is the science	information by working exclusively with:
125. The ability to recover and read	The state of the s	A. multimedia.
125. The ability to recover and read	that attempts to produce machines	
deleted or damaged files from a	that display the same type of	B. words.
criminal's computer is an example of	intelligence that humans do.	C. characters.
a law enforcement specialty called:	A. Nanoscience	D. numbers.
A. robotics.	B. Nanotechnology	120 1 1 1:
B. simulation.	C. Simulation	138. In the binary language each
C. computer forensics.	D. Artificial intelligence (AI)	letter of the alphabet, each number
D. animation.		and each special character is made up

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of a unique combination of:	www.recruitment.guru	147 All af the following and
	D. terabyte	147. All of the following are
A. eight bytes.	142	examples of storage devices
3. eight kilobytes.	143 is any part of the	EXCEPT:
C. eight characters.	computer that you can physically	A. hard disk drives.
D. eight bits.	touch.	B. printers.
20 70 1 1	A. Hardware	C. floppy disk drives.
39. The term bit is short for:	B. A device	D. CD drives.
A. megabyte.	C. A peripheral	Answer: B
B. binary language.	D. An application	
C. binary digit.	XXX	148. The, also called
D. binary number.	144. The components that process	the brain of the computer, is
10.88 (S.171) 80 St. E. S. (SEC. 2007/4)	data are located in the:	responsible for processing data.
40. A string of eight 0s and 1s is	A. input devices.	A. motherboard
called a:	B. output devices.	B. memory
A. megabyte.	C. system unit.	C. RAM
B. byte.	D. storage component.	D. central processing unit (CPU)
C. kilobyte.		1741
D. gigabyte.	145. All of the following are	149. The CPU and memory are
	examples of input devices EXCEPT	located on the:
141. A is	a:	A. expansion board.
approximately one billion bytes.	A. scanner.	B. motherboard.
A. kilobyte	B. mouse.	C. storage device.
B. bit	C. keyboard.	D. output device.
C. gigabyte	D. printer.	D. Salpat de rice.
D. megabyte	D. primer.	150. Word processing, spreadsheet,
7. Inegabyte	146. Which of the following is an	and photo-editing are examples of:
142. A is	example of an input device?	A. application software.
		D. piatform software.
J. megabyte	D. printer	
approximately a million bytes.  A. gigabyte  B. kilobyte  C. megabyte	A. scanner B. speaker C. CD D. printer	B. system software. C. operating system software. D. platform software.

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## TEST-IV: ENGLISH LANGUAGE

Directions (151-165): Read the following passage very carefully and answer the questions given below appropriately. There are certain words in the passage printed in **bold** letters to lead you to find them out easily in order to help you in answering some of the questions.

I worked as health secretary for about five years from the middle of 1962 to the middle of 1967. Thereafter I worked as finance secretary until the end of 1969. Indiscipline was rampant in the health department. Intense lobbying to secure plum postings was the order of the day. Ministers, legislators, senior officers and other influential people openly pleaded the cause of their proteges. The Health Minister was an honest, well-meaning politician. He approved my proposals to bring about some system and objectivity in postings and transfers and put an end to lobbying. But those efforts met with only limited success. Doctors succeeded in getting desired postings by resorting to bribery. On the eve of the elections, the then minister sent down over 100 transfer orders from his camp office. They were in conflict with the guidelines and quite a few were confusing in as much as two doctors were posted to the same place, or one person was posted to more than one post. I did not carry out the orders. I submitted a note to Chief Minister through the Chief Secretary pointing out why the orders should not be implemented. The Chief Secretary supported me. The Chief Minister decided that the minister's orders should not be implemented. All the doctors who had paid money were disappointed. In several other departments also corruption became widespread. In the works departments corruption had existed since a long time in the matter of awarding contracts. Now bribes were freely offered to secure transfer to particular posts; and even for getting promotions.

As Finance Secretary I found that the finances of the state were in a precarious condition. Financial discipline had evaporated. Long before the advent of the wireless and the telephone, the British had included in the Treasury Code a rule (Rule 27) empowering collectors to draw money from the treasury to meet emergencies like floods. earthquakes, devastating fires, etc. To my dismay I found that collectors were freely drawing money for all manner of trivial purposes under Rule 27 of the Treasury Code. In one case a collector had drawn money under the rule to buy a staff car for the SDO of another district. All checks and balances had disappeared. There was no accountability and any one could do what he pleased. Resorting to a number of harsh measures I could restore a measure of financial discipline. But the administration continued to be in disar-

151. How, many years did the author work as health secretary?

- (1) He worked as health secretary until the end of 1969
- (2) He worked as health secretary before he took over as finance secre-
- (3) He worked as health secretary till the health minister was found to be a man of integrity
- (4) He worked as health secretary for about five years
- (5) He did not work as health secretary at all
- 152. According to the author what was the order of the day?
  - (1) Strict discipline
  - (2) Cut throat competition
  - (3) Racial discrimination
  - (4) Intense lobbying
  - (5) None of these
- 153. How did the doctors succeed in getting desired postings ?
  - (1) Through dedicated service
- (2) By working in the health minister's constituency
- (3) By joining hands with the underworld criminals
  - (4) By resorting to sycophancy
  - (5) By resorting to bribery
- 154. When the health minister sent down 100 transfer orders from his camp office, how did the author react?
- (A) He immediately obeyed the minister
  - (B) He did not carry out the orders
- (C) He submitted a note to Chief Minister through the Chief Secretary

- (1) Only (A)
- (2) Only (B)
- (3) Only (A) & (B)
- (4) Only (B) & (C)
- (5) Only (A) & (C)
- 155. What happened when the Chief Minister decided that the minister's orders should not be implemented?
  - (1) The author was very happy
- (2) The author arranged a tea party to celebrate his victory
- (3) The doctors resigned and left the hospitals
- (4) The health minister submitted his resignation
- (5) All the doctors who had paid money were disappointed

Directions (156-165): Choose the word which is MOST OPPOSITE in meaning of the word given in bold as used in the passage.

#### 156, Intense

- (1) Active
- (2) Vigorous (3) Feeble (4) Inferior.
- (5) Devise

## 157. Success

- (1) Defeat (3) Abrupt
- (2) Succeed (4) Failure
- (5) Difficult

# 158. Conflict

- (1) Conformity
- (2) Disagreement
- (3) Attest (4) Combat
- (5) Manifest

#### 159. Supported

- (1) Advocated (2) Betrayed
- (3) Opposed (4) Abandoned
- (5) Proposed

#### 160. Promotion

- (1) Premonition (2) Facilitate
- (4) Obstruction (3) Demotion
- (5) Encourage

#### 161. Precarious

- (1) Menacing (2) Threatening
- (3) Secured (4) Firmly
- (5) Unsafe

#### 162. Discipline

- (2) Restrain (1) Orderly
- (3) Indiscipline (4) Turbulence (5) Confusion
- 163. Devastating
- (2) Wrecking (1) Ravaging
- (3) Refreshing (4) Restoring
- (5) Replenishing

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#### 164. Trivial

- (1) Perilous
- (2) Frivolous
- (3) Important (4) Weighty
- (5) Momentous
- 165. Harsh
- (1) Peculiar
- (2) Blunt
- (3) Mild
- (4) Melodious
- (5) Coarse

Directions (166-175): In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

. With the (166) of Indian economy (167) various reforms initiated, banking sector (168), a pivotal role in the process of achieving (169) economic growth and also in (170) the social well being at large. The Public sector (171) in India have the twin tasks ahead of meeting the social banking (172) and at the same time generating (173) profits to meet the costs associated with growth. At present, banks have more than 76.1 per cent of their total branch (174) in rural and semi-urban (175).

- 166. (1) nationalization
  - (2) expansion
  - (3) liberalization
  - (4) computerization
  - (5) accommodation
- 167. (1) from (2) over
  - (3) between (4) through
- (5) thorough
- 168. (1) manages (2) occupies
  - (3) facilitates (4) naturalize
  - (5) conquers
- 169. (1) fewer
- (2) fantastic
- (4) lower (3) higher
- (5) lesser
- 170. (1) increasing (2) enhancing
  - (3) encouraging
  - (4) improving (5) innovating
- 171. (1) organizations
  - (2) companies
  - (3) corporations
  - (4) banks (5) institutions
- 172. (1) limitations
  - (2) obligations
    - (3) derivatives (4) facilities
    - (5) liabilities
- 173. (1) beautiful
- (2) lumpsum
- (3) adequate (4) wonderful
- (5) everlasting

- 174. (1) map (2) scenario (3) network (4)-system
  - (5) graph
- 175. (1) households (2) residences (3) areas (4) locals
  - (5) suburbs

Directions (176-185): In each guestion below, four words which are numbered (1),(2), (3) and (4) have been printed of which one may be wrongly spelt. The number of that word is answer. If all the four words are correctly spelt, mark (5) i.e. 'All correct' as the answer.

- 176. (1) Profesion (3) Riot
  - (2) Justice (4) Assembly

(2) Affair

- (5) All correct
- 177. (1) Shoddy
  - (3) Parade (4) Beard (5) All correct
- 178. (1) Machstick (2) Death (4) Spark
  - (3) Birth (5) All correct
- 179. (1) Suspect (2) Rope
  - (3) Religious (4) Ecsplode
- (5) All correct 180. (1) Confident (2) Strach
  - (3) Road (4) Hire
- (5) All correct
- 181. (1) Village
- (2) Pattrol (4) Enough
  - (5) All correct
  - (3) Parole
- 182. (1) Partition
  - (2) Independence
  - (3) Foreigner (4) Tricolour
  - (5) All correct
- 183. (1) Appointment (2) Broad
  - (3) Commisioner (4) Arrival
  - (5) All Correct
- 184. (1) Welcom (2) Urgent
  - (4) Smile (3) Introduce (5) All correct
- 185. (1) Incamation (2) Adoration
  - (3) Administation
  - (4) Authorization
  - (5) All correct

Directions (186-190): Pick out the most effective word from the given words to make the sentence meaningfully complete.

186. I will them for saving me from the agonies of old age.

- (1) fire
- (2) beat
- (3) thank (4) admonish
- (5) shout
- 187. I have not done things which anyone else may feel are recording.

- (1) useless (2) worth (3) good (4) historic (5) bad 188. I was handed
- to Bhai Hari Singh. (1) back
  - (2) over (3) through (4) upon
  - (5) again 189. We were with
- the names of notorious criminals. (1) constantly (2) convenient
  - (3) familiar (4) obvious
  - (5) Ignorant
- 190. I do not know what my father choose that particular school.
  - (1) happened (2) controlled
  - (3) made (4) asked
  - (5) thrilled

Directions (191-200): Read each sentence to find out whether there is any grammatical/idiomatic/spelling mistake/error in it. The error, if any, will be in one part of the sentence. Mark the number of that part with error as your answer, If there is no error, mark (5).

191. I have citicize (1)/ the remarkable book (2)/ because I benefited (3)/ from reading it. (4) No error (5)

192. As Arundhati Roy (1) in her foreword write (2)/ John offers (3)/untold stories of people. (4) No error (5)

193. Citizens needed (1)/ to know that (2)/ our leader cannot (3)/ be trusted. (4) No error (5)

194. Responsibilities includes (1)/ working with the editors (2)/ on all aspects (3)/ of the editorial process. (4) No error (5)

195. We build a simple model (1)/ to test whether (2)/ there is a phase change (3)/ in the Indian economy. (4) No error (5)

196. Our results (1)/ indicate that (2)/ 1991 marked (3)/ the end of an era. (4) No error (5)

197. While grouping the words (1)/ care have been taken (2)/ to include the role (3)/ grammar plays in a language. (4) No error (5)

198. Between the years (1)/ 1952 to 1962 (2)/ I worked in the field (3)/ as sub-divisional officer. (4) No error (5)

199. The Chief Minister (1)/ was obliged (2)/ to honour the promise (3)/ made during the contest. (4) No error

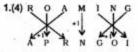
200. Distrust seems (1)/ to be a factor (2)/ borne out of (3)/ prevailing circumstances. (4) No error (5)

## **ANSWERS**

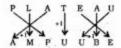
1. (4)	2. (5)	3. (2)	4. (1)
5. (1)	6. (1)	7. (4)	8. (4)
9. (2)	10. (5)	11. (4)	12. (2)
13. (1)	14. (5)	15. (2)	16. (1)
17. (2)	18. (1)	19. (3)	20. (5)
21. (4)	22. (1)	-23, (3)	24. (2)
25. (2)	26. (2)	27. (4)	28. (3)
29. (5)	30. (1)	31. (3)	32. (5)
33. (1)	34. (2)	35. (4)	36. (1)
37. (4)	38. (5)	39. (3)	40. (4)
41. (4)	42. (2)	43. (4)	44. (3)
45. (1)	46. (2)	47. (5)	48. (5)
49. (3)	50. (4)	51. (2)	52. (1)
53. (3)	54. (5)	55. (4)	56. (2)
57. (5)	58. (1)	59. (3)	. 60. (4)
61. (3)	62. (4)	63. (1)	64. (2)
65. (3)	66. (5)	67. (2)	68. (4)
69. (1)	70. (5)	71. (1)	72. (3)
73. (4)	74. (2)	75. (5)	76. (2)
77. (4)	78. (1)	79. (5)	80. (2)
81. (1)	82. (3)	83. (5)	84. (5)
85. (4)	86. (1)	87. (3)	88. (4)
89. (5)	90. (2)	91. (4)	92. (1)
93. (2)	94. (3)	95. (5)	96. (4)
97. (1)	98. (2)	99. (5)	100. (3)

157. (4)	158. (1)	159. (3)	160. (3)
161. (3)	162. (2)	163. (3)	164. (5)
165. (3)	166. (3)	167. (4)	168. (2)
169. (3)	170. (4)	171. (4)	172. (2)
173. (3)	174. (3)	175. (3)	176. (1)
177. (5)	178. (1)	179. (4)	180. (2)
181. (2)	182. (5)	183. (3)	184. (1)
185. (3)	186. (3)	187. (2)	188. (2)
189. (3)	190. (3)	191. (1)	192. (2)
193. (1)	194. (1)	195. (5)	196. (5)
197. (2)	198. (5)	199. (5)	200. (3)

## **EXPLANATIONS**



Similarly,



2.(5) Except dog, all other animals are Vegetarians.

3.(2) Meaningful words ⇒ POTS, POST

4.(1) The child of mother is referred to as offspring. Similarly, the nascent form of tree is called sapling.

5.(1)	S	P	R	1	N	G
	1	1	1	1	1	1
	#	2	%	0	4	=
An	d,					
	G	0	N	E		
	1	1	1	1		

Therefore.

6.(1) June is a name of month.

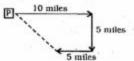
7.(4) We can see dates in calendar. Similarly, we can see time in clock.

8.(4) Raju is the only son of Ayesha's maternal uncle's wife.

Therefore, Raju is the cusion brother of Ayesha.

The sex of Ayesha is not given.







It is clear from the diagram that point P is in North -West direction.

10.(5) 23 is a Prime Number, All other numbers are multiples of 3.

21 = 3 x 7; 51 = 3 x 17

 $63 = 3 \times 21$ ;  $15 = 3 \times 5$ 

11.(4) The colour of milk is white. But here white is called yellow.

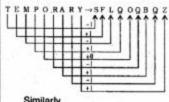
12.(2)

13.(1) W > T > M and V is the thinnest.

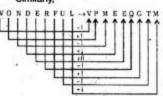
Thus, W>T>M>V K or W is not the fattest. Therefore, O is the fattest.

K or W is not the fattest. Therefor, O is the fattest.

14.(5)



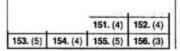
#### Similarly,



15.(2) Teachers train students. Similarly, coach trains players. 16.(1)

Symbol	Number	Vowel

There is no such combination.





$$A \xrightarrow{+3} T \xrightarrow{+3} 7 \xrightarrow{+3} E \xrightarrow{+3} \begin{bmatrix} S \\ K \xrightarrow{+3} \Delta \xrightarrow{+3} R \xrightarrow{+3} B \xrightarrow{+3} \\ V \xrightarrow{+3} = \xrightarrow{+3} M \xrightarrow{+3} W \xrightarrow{+3} U \end{bmatrix}$$

$$18.(1)$$

Symbol	Consonant	Number
--------	-----------	--------

There is only one such combina-

tion: BZ5

19.(3) Sixth to the left of 18th from left means 18 - 6 = 12th from left.

But the order of the first twenty elements has been reversed. Therefore,

1st element from left has become 20th from left and vice-versa.

2nd element from left has become 19th from left and vice-versa.

3rd element from left has become 18th from left and vice-versa.

And so on.

Therefore, 9th element from the left would become the 12th from left.

20.(5) 
$$C \xrightarrow{-2} P \xrightarrow{+3} \beta$$
  
 $e^{-2} \times W \xrightarrow{+3} J$   
 $7 \xrightarrow{-2} R \xrightarrow{+3} B$   
 $1 \xrightarrow{-2} 0 \xrightarrow{+3} Q$ 

But.

$$A \xrightarrow{-1} 3 \xrightarrow{+3} V$$

21.(4) First and second Premises are Particular Affirmative (I-type).

Third Premise is Universal Affirmative (A - type).

All trains are horses.



Some horses are bells.

We know that, A + I ⇒ No Conclusion

22.(1) First and second Premises are Universal Affirmative (A - type).

Third Premise is Particular Affirmative (I - type).

All roses are goats.



All goats are kites.

We know that.

A + A ⇒ A - type Conclusion

Thus, our derived Conclusion would be: "All roses are kites"

Conclusion I is the Converse of this Conclusion.

23.(3) First and third Premises are Universal Affirmative (A-type).

Second Premise is Particular Affirmative (I-type).

Some birds are classes.

All classes are lions.

We know that,

I + A ⇒ I - type Conclusion

Thus, our derived Conclusion would be:

"Some birds are lions".

Conclusions I and II from Complementary Pair, Therefore, either Conclusion I or II follows.

24.(2) First and third Premises are Particular Affirmative (I-type).

Second Premise is Universal Affirmative (A-type).

Some candles are papers.



All papers are trees.

We know that,

I + A ⇒ I - type Conclusion

Thus, our derived Conclusion would be:

"Some candles are trees".

Some books are papers.



All papers are trees.

We know that,

I + A ⇒ I - type Conclusion

Thus, our derived Conclusion would be:

"All roses are kites".

Conclusion II is the Converse of this derived Conclusion.

25.(2) First and third Premises are Universal

Affirmative (A-type).

Second Premise is Particular Affirmative (I-type).

Some baloons are crows.



All crows are bats.

We know that,

I + A ⇒ I - type Conclusion

Thus, our derived Conclusion would be:

> "Some baloons are bats". All crows are bats.



All bats are elephants.

We know that,

A + A ⇒ A - type Conclusion Thus, our derived Conclusion

would be:

"All crows are elephants."

Conclusion II is the Converse of this derived Conclusion.

	26.(2)	3	1	4	9	2	6		
		1	1	1	1	1	1		
		M	P	В	T	N	D		
	27.(4)	R	A	T	H	1	M		
		1	1	1	1	1	1		
		0	5	9	8	7	3		
	28.(3)	4	5	2	1	7	3	6	
		1	1	1	1	1	1	1	
		#	A	N	P	1	M	#	
	29.(5)	3	4	8	0	5	7-		
		1	1	1	1	1	1		
0		S	В	H	R	A	\$		
	30.(1)	#	A	N	1 1	P	T	#	
		1	1	1		1	1	1	
	E	ve	n 5	3		1	9 E	ver	n
		tigi	t					figit	ť

(31-35): On the basis of given information and conclusions drawn we can construct the following table :

Friends	Boy or Girl	Building	Fruit
R	Girl	Z	Apple
М	Boy	Z	Jackfruit
К	Girl	X	Mango
Р	Girl	Y	Grape
L	Boy	Z	Pine-
			apple
W	Boy	Y	Orange
В	Boy	X	Water- melon

31.(3) K likes mango.

32.(5) L, M & R stay in building Z.

33.(1) R likes apple.

34.(2) K, P and R are girl.

35.(4) B likes watermelon.

36.(1) In each subsequent figure one design is added in the corner in anticlockwise direction and after every two figures the designs of corners are inverted. In the subsequent figures respectively one and two design(s) is/are inverted in the middle.

37.(4) From first figure to second figure the small designs move one step in anticlockwise direction and they are enclosed by such designs if the smaller designs move in clockwise direction. Similar changes would occur from Problem Figure (5) to Answer Figure.

38.(5) Problem Figure (5) is the water image of the Problem Figure (1). Therefore, Answer Figure would be the water image of the Problem Figure (2).

39.(3) The top design descends stepwise after being rotated through 90° anticlockwise and inverted laterally and ascends in one step. After every two figures the arrow moves one step in anticlockwise direction and in each step it is rotated through 180° and then inverted laterally. Now we can eliminate Answer Figures (1), (2) and (4). The third design moves to left or right after every two figures and it changes in a set order.

40.(4) The outer design of Problem Figure (1) becomes the inner design in Problem Figure (4) and the outer design of Problem Figure (2) becomes the inner design in Problem Figure (5).

Therefore, the other design of Problem Figure (3) would become the inner design in Answer Figure. Therefore, we can eliminate the Answer Figures (2) and (3). The same pattern is followed in the case of outer design but it gets inverted.

41.(4) In the subsequent figures respectively two and three line segments change their positions in a set order.

42.(2) In the subsequent figures the plane of designs rotate through 45° anticlokwise direction and the designs interchange positions in a set order. The first design becomes the third design, the second design becomes the fourth design, the third design becomes the second design and fourth design becomes the first design and it is replaced by a new design. In the second step the fourth design in replaced with a new design.

43.(4) In the subsequent figures the arrow head moves two steps in anticlockwise direction.

44.(3) In each subsequent figure one line segment is added and design reoriented in a set order.  45.(1) In each subsequent figure all the designs move in anticlockwise direction and the first design moves to the central positions and it is replaced by a new design and the central design moves to the middle position (second position) and the last design moves to the first position.

46.(2) From Problem Figure (1) to (2) one curve and an arrow head are inverted. From Problem Figure (2) to (3) both the curves and an arrow head are inverted. From Problem Figure (3) to (4) both the arrow heads are inverted. From Problem Figure (4) to (5) both the curves and an arrow head are inverted. Therefore, from Problem Figure (5) to Answer Figure one curve and an arrow head would be inverted.

47.(5) In the subsequent figures the plane of designs rotates through 45° anticlockwise. From Problem Figure (1) to (2) the first two designs interchange positions, the third design moves to the fourth position and the fifth design moves to the third position. The fourth design moves to the fifth position and it is replaced with a new design, From Problem Figure (2) to (3) the first design moves to the second position and the third design moves to the first position. The second design moves to the third position and it is replaced with a new design. The fourth and the fifth designs interchange positions. These two steps are repeated alternately.

48.(5) From Problem Figure (1) to (2) both the designs move one step in anticlockwise direction and the first design is replaced with a new design. From Problem Figure (2) to (3) both the designs move one step in anticlockwise direction and interchange positions and one of the designs is replaced with a new design. These two steps are repeated alternately.

49.(3) Alternately the designs move one step in clockwise direction and in each subsequent figure one new design appears in front of the preexisting designs. Alternately, the first design moves to the last and it is replaced with a new design.

50.(4) In the subsequent figures respectively three and two line segments are added in a set order.

51.(2) 
$$3785 + ? - 4297 = 5523$$
  
 $\Rightarrow ? = 5523 + 4297 - 3785$   
 $= 9820 - 3785 = 6035$   
52.(1)  $? = 11.02 \times 8 + 1.5 \times 0.6$   
 $= 88.16 + 0.9$   
 $= 89.06$   
53.(3)  $? = \frac{3}{5}$  of  $\frac{4}{7}$  of  $\frac{7}{9}$  of 1380  
 $= \frac{3}{5} \times \frac{4}{7} \times \frac{7}{9} \times 1380$   
 $= 368$   
54.(5)  
 $? = 75\%$  of 580 + 58% of 750  
 $= \frac{75 \times 580}{100} + \frac{58 \times 750}{100}$   
 $= 435 + 435 = 870$   
55.(4)  $36 \times 45 + \sqrt{?} = 1700$   
 $\Rightarrow \sqrt{?} = 1700 - 1620$   
 $\Rightarrow \sqrt{?} = 80$   
 $\Rightarrow ? = (80)^2 = 6400$   
56.(2)  $? = 12^2 + 16$   
 $= 144 + 16 = 180$   
57.(5)  $? = 2\frac{3}{5} + 4\frac{1}{5} - 3\frac{2}{5}$   
 $= 2 + \frac{3}{5} + 4 + \frac{1}{5} - 3 - \frac{2}{5}$   
 $= (2 + 4 - 3) + (\frac{3}{5} + \frac{1}{5} - \frac{2}{5})$   
 $= 3 + (\frac{3+1-2}{5}) = 3 + \frac{2}{5} = 3\frac{2}{5}$   
58.(1)  $10^7 = 10^{7.5} \times 10^{4.5} + 10^2$   
 $= 10^{7.5} \times \frac{10^{4.5}}{10^2}$   
 $= 10^{7.5} \times 10^{2.5}$   
 $= (10)^{7.5 + 2.5}$   
 $\Rightarrow 10^7 = 10^{10} \Rightarrow ? = 10$   
59.(3)  $? = 36^2 - 24^2$   
 $= (36 + 24) (36 - 24)$   
 $= 60 \times 12 - 720$   
60.(4)  $? = 32 \times 15 - 1850 + 37$   
 $= 480 - 1850 \times \frac{1}{37}$   
 $= 480 - 50 = 430$   
61.(3)  $? = 11\frac{2}{9} \times \frac{36}{101}$   
 $= \frac{101}{9} \times \frac{36}{101} = 4$ 

62.(4) ? = 1087.05 + 187.005 +  
87.005 = 1361.06  
63.(1) 
$$\sqrt{7}$$
 +187 = 220  
 $\Rightarrow \sqrt{?}$  = 220 - 187.  
 $\Rightarrow \sqrt{?}$  = 33  $\Rightarrow$  ? = 33<sup>2</sup> = 1089  
64.(2) ? =  $\frac{27 \times 2^3 + 18}{6}$ 

$$= \frac{27 \times 8}{6 \times 18} = 2$$
65.(3)
80% of 135 + ? % of 750 = 228
$$\Rightarrow \frac{80 \times 135}{100} + \frac{? \times 750}{100} = 228$$

$$\Rightarrow 108 + \frac{750 \times ?}{100} = 228$$

$$\Rightarrow \frac{750 \times ?}{100} = 228 - 108$$

$$\Rightarrow ? = \frac{120 \times 100}{750} = 16$$

$$66.(5) ? = 632 \div 8 + 11^{2}$$

$$=\frac{632}{8} + 121 = 79 + 121 = 200$$

**67.**(2) ? of 
$$\frac{7}{8}$$
 of  $\frac{1}{3}$  of  $\frac{2}{7}$  = 12

$$\Rightarrow ? = \frac{12 \times 8 \times 3 \times 7}{7 \times 2} = 144$$

$$69.(1) ? 2310 + 14 + 5$$
$$= \frac{2310}{14 \times 5} = 33$$

$$=\frac{198\times15}{30}=99$$

71.(1) The given series is based on the following pattern :

Hence, 95 will replace the question mark.

72.(3) The given series is based on the following pattern :

Hence, 62 will replace the question mark.

73.(4) The given series is based on the following pattern:

Hence, 472.5 will replace the question mark.

74.(2) The given series is based on the following pattern:

Hence, 487 will replace the question mark.

75.(5) The given series is based on the following pattern :

tion mark.
76.(2) Let the first and second

numbers be x and y respectively.

As per given information,

40% of 
$$x = \frac{3}{4}y$$

$$\Rightarrow \frac{40x}{100} = \frac{3y}{4}$$

$$\Rightarrow \frac{2x}{5} = \frac{3y}{4}$$

$$\Rightarrow \frac{x}{y} = \frac{3}{4} \times \frac{5}{2} = \frac{15}{8} = 15:8$$

77.(4) When a train crosses a signal post it travels its own length.

∴ Speed = 
$$\frac{360}{18}$$
 = 20m/sec.

$$=\left(20\times\frac{18}{5}\right)$$
kmph

78.(1) (A + B)'s 1 day's work = 
$$\frac{1}{4}$$

A's 1 day's work = 
$$\frac{1}{6}$$

$$\therefore \text{ B's 1 day's work} = \frac{1}{4} - \frac{1}{6}$$

$$=\frac{3-2}{12}=\frac{1}{12}$$

 B alone can complete the work in 12 days.

79.(5) Amount = 
$$P\left(1 + \frac{R}{100}\right)^T$$
  
=  $18000\left(1 + \frac{10}{100}\right)^3$   
=  $18000 \times \frac{11 \times 11 \times 11}{10 \times 10 \times 10}$   
= Rs. 23958  
 $\therefore$  C. I. = Rs. (23958 – 18000)  
= Rs. 5958

80.(2) Discount = 8% of printed price

= 
$$\frac{8 \times 20000}{100}$$
 = Rs. 1600  
 $\therefore$  S.P. = Rs.(20000 – 1600)

$$= \text{Rs.} \left( \frac{100}{125} \times 18400 \right)$$

= Rs. 14720

81.(1) Let the number of students in organisation X be 5x and that in organisation Y be 8x.

New number of students in organisation X

$$=\frac{120}{100} \times 5x = 6x$$

New number of students in organisation Y

$$= \frac{110 \times 8x}{100} = 8.8x$$

∴ Required ratio = 6x: 8.8x = 60: 88

= 15:22

82.(3) Let the original number be 0x + y.

Number obtained by interchanging the digits = 10y + x

∴ 
$$10x + y - 10y - x = 18$$
  
⇒  $9x - 9y = 18$ 

$$\Rightarrow x - y = 2 \qquad \dots (i)$$
Again,  $x + y = 6 \qquad \dots (ii)$ 

Again, 
$$x + y = 6$$
  
From equations (i) and (ii),

x = 4 and y = 2 ∴ Original number

= 10 × 4 + 2 = 42

83.(5) Let Samar's monthly salary be Rs. x.

According to the question: x - (52 + 23)% of x = 4500

$$\Rightarrow$$
 x − 75% of x = 4500  
 $\Rightarrow$  25% of x = 4500

$$\Rightarrow x = \frac{4500 \times 100}{25} = \text{Rs. } 18000$$

$$=\frac{44 \times 100}{55} = 80$$

.. Number of boys = 80 - 44 = 36

$$=\frac{45 \times 75 + 40 \times 78}{45 + 40}$$
$$= 3375 + 3120$$

86.(1) Purchasing price of articles = Rs. (245 x 30)

= Rs. 7350 Total cost

= Rs. (7350 + 980 + 1470) = Rs. 9800

∴ C.P. per piece = 
$$\frac{9800}{245}$$

:. Gain % = 
$$\frac{10}{40} \times 100 = 25$$

87.(3) When difference between the compound interest and simple interest on a certain sum of money for 2 years at r% rate is Rs. x, then the sum is given by :

Sum = 
$$x \left(\frac{100}{r}\right)^2$$
  
=  $128 \left(\frac{100}{8}\right)^2 = 128 \left(\frac{25}{2}\right)^2$   
=  $\frac{128 \times 25 \times 25}{2 \times 2}$  = Rs. 20000

88.(4) Let the present ages of father and son be 5x and x years respec-

According to the question,

$$\frac{5x+7}{x+7} = \frac{3}{1}$$

$$\Rightarrow 5x+7 = 3x+21$$

$$\Rightarrow 2x = 14$$

$$\Rightarrow x = \frac{14}{2} = 7$$

89.(5) 
$$\frac{49}{?} = \frac{?}{25}$$
  
 $\Rightarrow (?)^2 = 49 \times 25$   
 $\Rightarrow ? = \sqrt{49 + 25} = 7 \times 5 = 35$ 

and 7x tons respectively. Now, 8x - 5x = 1350 $\Rightarrow 3x = 1350$ 

$$\Rightarrow x = \frac{1350}{3} = 450$$

.. Total production

$$= 5x + 8x + 7x$$
$$= 20x$$

 $= 20 \times 450 = 9000$  tons.

91.(4) Let the original fraction

be 
$$\frac{x}{y}$$
.

Now, 
$$\frac{120x}{\frac{100}{y}} = \frac{2}{3}$$

$$\Rightarrow \frac{6x}{5y} = \frac{2}{3}$$

$$\Rightarrow \frac{x}{y} = \frac{2}{3} \times \frac{5}{6} = \frac{5}{9}$$

92.(1) 5 students can be seated on 5 seats in 5! ways

$$3x + y = 18$$
 ... (ii

Multiplying equation (i) by 3 and (ii) by 2 and subtracting (ii) from (i).

$$6x - 9y = 3$$
  
 $-6x + 2y = -36$   
 $-11y = -33$ 

 $2x - 3 \times 3 = 1$ 

$$\Rightarrow 2x = 10 \Rightarrow x = 5$$

 $\Rightarrow x - y = 5 - 3 = 2$ 

94.(3) Net effect on area

$$=\left(x+y+\frac{xy}{100}\right)\%$$

Here x = 40, y = -20 (decrease) :. Net effect =

$$\left(40-20-\frac{40\times20}{100}\right)$$
96

= 12% increase

$$\frac{40}{100} \times \frac{70}{100} \times x = 336$$

$$\therefore x = \frac{336 \times 100}{4 \times 7} = 1200$$

$$\therefore \frac{1}{3} \text{ of } x = \frac{1}{3} \times 1200 = 400$$

96.(4) Let the cost of a wrist watch be Rs. x and that of a calculator be Rs. y.

According to the question,  

$$7x + 5y = 3650$$
 ... ( $\hbar$ )  
and,  $x - y = 110$ 

 $\Rightarrow x = 110 + y$ Putting the value of x is equation (i).

$$7(110 + y) + 5y = 3650$$
  
 $\Rightarrow 770 + 7y + 5y = 3650$   
 $\Rightarrow 12y = 3650 - 770$ 

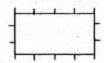
⇒ 
$$12y = 2880$$
  
⇒  $y = \frac{2880}{12} = 240$ 

.: Cost of a calculator = Rs. 240 97.(1) Let the length and breadth be 4x and 3x metres respectively.

$$\therefore 2(4x+3x) = 21$$

$$\Rightarrow 14x = 21 \Rightarrow x = \frac{21}{14} = 1.5$$

⇒ Length = 6m and breadth = 4.5



Clearly, number of poles = 14 98.(2) Let the radius of circle be r cms.

$$\therefore 2\pi r = 88$$

$$\Rightarrow r = \frac{88 \times 7}{2 \times 22} = 14 \text{ cms.}$$

$$\therefore \text{Area} = \pi r^2 = \frac{22}{7} \times 14 \times 14$$

= 616 cm<sup>2</sup>  
99.(5) 
$$2x + 3y + z = 25$$
 ... (1)  
 $x + y + z = 14$  ...

$$x + y = z$$
 ... (ii)  
From equations (ii) and (iii)

From equations (ii) and (iii), 
$$z+z=14 \Rightarrow z=7$$

.. From equation (iii), 
$$y = 7 - x$$
  
From equation (i),

$$2x + 3(7 - x) + 7 = 25$$
  
 $\Rightarrow 2x + 21 - 3x + 7 = 25$ 

$$\Rightarrow$$
 28 -  $x = 25$ 

$$\Rightarrow x = 3$$

100.(3) Number of students who can speak :

Only English 
$$\rightarrow \frac{40 \times 60}{100} = 24$$

Only Hindi 
$$\rightarrow \frac{25 \times 60}{100} = 15$$

Both languages = 60 - 24 - 15 = 21

.. Number of students who can speak English = 15 + 21 = 36

136.(3) Alphabetical order of words:

- (2) Miniature
- (4) Minimalist
- (5) Miniscule
- (3) Ministerial
- (1) Minority 137.(2) Alphabetical order of
- words : (3) Carbohydrate
  - (1) Carbolic
  - (5) Carbonate
  - (2) Carbonise
  - (4) Carburation
- 138.(5) Alphabetical order of words:
  - (2) Franchise
  - (3) Frantic
  - (1) Fraternity
  - (5) Fraudulent
  - (4) Fraught

139.(1) Alphabetical order of words:

- (3) Predictor
- (4) Predispose
- (2) Prefabricate
- (1) Preferential
- (5) Preformative
- 140.(4) Alphabetical order of words:
  - (3) Transition

- (2) · Translate
- (5) Transmit
- (4) Transplant ↓
- (1) Transport

D H F M T R V 141.(3) ↓ ↓ ↓ ↓ ↓ ↓ ↓ 1 5 7 9 0 2 8

PRFLKHV
142.(2) ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ 4 2 7 3 6 5 8

M D F H L T R

143.(5) ↓ ↓ ↓ ↓ ↓ ↓ ↓

9 1 7 5 3 0 2

145.(4) K H V L R D P ↓ ↓ ↓ ↓ ↓ ↓ ↓ 6 5 8 3 2 1 4

156.(3) The word 'intense' means very strong. Out of the given answer choices the word 'feeble' means weak, faint. Hence, the words intense and feeble are antonymous.

157.(4) The words success and failure are antonymous.

158.(1) In the passage, the word 'conflict' means a serious disagreement. Out of the given answer choices, the word 'conformity' means behaviour etc. that conforms to established rules, customs etc. Hence, the words conflict and conformity are antonymous.

159.(3) In the passage the word support (Verb) means to help some-body/something by one's approval. Out of the answer choices, the word oppose (Verb) means to express strong disapproval of or disagreement with something/somebody with the aim of preventing or changing a course of action. Hence, the words supported and opposed are antonymous.

160.(3) The words promotion and demotion are antonymous.

161.(3) In the passage, the word prectarious (Adjective) means not safe, uncertain. Out of the answer choices,

the word 'secured' means protected, safe. Hence, the words precarious and secured are antonymous.

163.(3) The word devastating (Adjective) means causing great destruction. Its antonym will be refreshing.

164.(5) In the passage the word 'trivial' means of little importance, concerned with unimportant things. Out of the given answer choices the word momentous (Adjective) means very important serious. Hence, the words trivial and momentous are antonymous.

165.(3) The word 'harsh' (Adjective) means sevre. The word 'mild' means not severe. Hence, the words harsh and mild are antonymous.

176.(1) The correct spelling is profession.

178.(1) The correct spelling is matchstick.

179. (4) The correct spelling is explode.

180.(2) The correct spelling is stretch.

181.(2) The correct spelling is patrol.

183.(3) The correct spelling is commissioner.

184.(1) The correct spelling is welcome.

185.(3) The correct spelling is administration.

191.(1) The error lies in part (1) of the sentence. 'I have criticize' should be replaced with 'I did not criticize'. It will make the sentence meaningful.

192.(2) The word 'write' is in Present Indefinite tense. It should be replaced with 'has written' as Present Perfect is used to express post action whose time is not given and not definite.

194.(1) The word responsibilities is a plural subject. It will take plural verb.

197.(2) The word care is singular and it will take singular verb. Hence, 'care have been taken' should be replaced with 'care has been taken'.

200.(3) The phrase borne out of, should be replaced with born of which means coming from the specified type of parents, background, origin etc. For example.

Her socialist beliefs were born of a hatred of injustice.

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## TEST-I: REASONING

- In a certain code, 'ROAMING' is written as 'APRNGOI'. How would 'PLA-TEAU' be written in the same code?
  - (1) AMPTUBE (2) PMAUEBU
  - (3) ALPUUAE (4) AMPUUBE
  - (5) None of these
- 2. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
  - (1) Horse
- (2) Donkey
- (3) Cow
- (4) Goat
- (5) Dog
- 3. How many meaningful English words can be formed with the letters of the word 'STOP' each using only once in a word but in different sequence, starting with the letter P?
  - (1) None
- (2) Two
- (3) One
- (4) Three
- (5) More than three
- Mother' is related to 'Offspring' in the same way as Tree' is related to —
  - (1) Sapling
- (2) Fruit
- (3) Root
- (4) Stem
- (5) None of these
- 5. In a certain code, 'SPRING' is written as '#2%@4=' and 'GONE' is written as '=74©'. How would SIGN be written in the same code?
  - (1) #@4=
- (2) 2@=4
- (3) #@=4
- (4) #%=4
- (5) None of these
- 6. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
  - (1) June
- (2) Year
- (3) Week
- (4) Month
- (5) Day
- 'Date' is related to 'Calendar' in the same way as 'Time' is related to —
  - (1) Day
- (2) Hour
- (3) Sun
- (4) Clock
- (5) None of these

- 8. Pointing to Raju, Ayesha says "He is the son of my mother's brother's wife". How is Ayesha related to Raju?
  - (1) Sister
- (2) Niece
- (3) Cousin Sister
- (4) Data inadequate
  (5) None of these
- 9. Tom walked 10 miles from Point P towards the East. He then took right turn and walked 5 miles and taking another right turn walked again for another 5 miles. In which direction is Point

P from where Tom is standing now ?

- (1) West
- (2) North-West
- (3) North-East
- (4) Cannot be determined (5) None of these
- 10. Four of the following five are a alike in a certain way and so form a group. Which is the one that does not belong to that group?
  - (1)21
- (2)51
- (3) 63 (4) 15
- (5)23
- 11. If 'green' is called 'white', 'white' is called 'yellow', 'yellow' is called 'blue', 'blue' is called 'pink' and 'pink' is called 'black', then what is the colour of milk?
  - (1) green
- (2) blue
- (3) pink
- (4) yellow
- (5) None of these
- 12. How many such pairs of letters are there in the word CONTROL each of which has as many letters between them in the word as in the English alphabet ?
  - (1) None
- (2) One
- (3) Two
- (4) Three
- (5) More than three
  - three
- 13. In a group of six children T, K, V, O, M and W, T is fatter than M but not as fat as W. K is not the fattest nor is W whereas V is the thinnest. Who is the
  - (1) 0
- (2) 1
- (3) M
- (4) Data inadequate
- (5) None of these

fattest among them all ?

- 14. In a certain code language, 'TEMPORARY' is written as 'SFLQOQBOZ'. How would 'WONDER-FUL' be written in the same code?
  - (1) VPMEFQGTM
  - (2) VPMEESGTM
  - (3) XPMEEQGTM
  - (4) VPMEESEVK
  - (5) None of these
- 15. Teacher' is related to 'students' in the same way as 'Coach' is related to
  - (1) Team
- (2) Player
- (3) Sports
- (4) Play
- (5) None of these

Directions (16-20): Study the following arrangement of letter-numbersymbol and answer the questions given below:

### K3AΔVTR = 7BME4WS @JN9 PUCβ Z5ODIQGeLY

 How many such numbers are there in the above arrangement each of which is preceded by symbol and

immediately followed by a Vowel ?

- (1) None \_ (2) One
- (3) Two (4) Three
- (5) More than three
- 17. In the above arrangement what should come in the place of the question-mark (?) in the following series ?

AKV TA = TRM EBW ?

- (1) SW@ (3) S4@
- (2) S4J (4) @WH
- (5) None of these
- 18. How many such Consonants are there in the above arrangement, each of which is preceded by symbol
- and immediately followed by a number?
  - (1) One (2) Two
  - (3) Three (4) None
  - (5) None of these
- 19. In the above arrangement if the first twenty elements are written in the reverse order then what is the Sixth element to the left of eighteenth element from the left?

- (1) B
- (2) =
- (3)7
- (4) E
- (5) None of these
- 20. Four of the following five are alike in a certain way based on their positions in the above arrangement and form a group. Which is the one that does not belong to that group?
  - (1) CPB
- (2) @WJ (4) IOQ
- (3) 7RB
- (5) A3V Directions (21-25): In each of the questions below are given three statements followed by two Conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the Conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Give answer (1) if only Conclusion I follows

Give answer (2) if only Conclusion II follows

Give answer (3) if either Conclusion 1 or II follows

Give answer (4) if neither Conclu-

### sion I nor II follows

Give answer (5) if both Conclusions I and II follow

#### 21. Statements

Some buses are bells.

Some bells are horses.

All trains are horses.

## Conclusions

- Some buses are horses.
- II. Some trains are bells.
- 22. Statements

All goats are kites.

All roses are goats.

Some kites are bees.

### Conclusions

- Some kites are roses.
- Some goats are bees.
- 23. Statements

All classes are lions.

Some birds are classes.

All pens are lions.

## Conclusions

- No pen is bird.
- II. Some birds are pens.
- 24. Statements

Some candles are papers.

All papers are trees.

Some books are papers.

#### Conclusions

- Some books are candles.
- II. Some trees are books.

#### 25. Statements

All bats are elephants.

Some baloons are crows.

All crows are bats.

## Conclusions

- Some baloons are elephants.
- Some elephants are crows.

Directions (26-30): Study the following information carefully and answer the questions given below :

The digits from 0 to 9 are coded as shown below with the exceptions that follow:

Digit	0	7	3	1	4	6	8	5	9	2
Digit Code	R	1	M	P	В	D	H	A	T	N

Exceptions 1: If number begins and ends with an odd digit (non-zero), then both the first and last digits are to be coded as \$.

2. If a number begins and ends with an even digit (including zero), then both the first and last digits are to be coded

26. What will be the code for

Directions (31-35): Study the following information carefully and answer the questions given below:

Seven friends R, M, K, P, L, W and B live in three different buildings, i.e., X, Y and Z. Not less than two or more than three live in any of the buildings. Each of them has a liking for different fruits among apple, jackfruit, watermelon, orange, grapes, pineapple and mango, not necessarily in that order. Three among them are girls, one each every building. W likes orange and stays in building Y alongwith only P. M. lives in building Z and likes jackfruit. None in building X likes apple or grapes. R and L don't stay in X building. K in R's close friend and she does not like watermelon. L likes pineapple. None of the girls likes orange and one of them likes apple. R does not like grapes.

- 31. Who likes mango?
- (2) P (1) B
- (3) K
- (4) Data inadequate
- (5) None of these
- 32. Who stay in building Z?
- (1) M. R
- (2) K, B, M

(2) Watermelon

- (2) MPBTND
- (4) SPBTNS
- (5) None of these
- 27. 'RATHIM' represents which of
- the following numbers ? (1) 095873 (2) 059673
  - (3)059871

314926 ?

(1) MPBDHA

(3) MPBTNA

- (4) 059873
- (5) None of these
- 28. What will be the code for 4521736 ?
  - (1) BANPIMD (2) BANPIRD
  - (3) #ANPIM# (4) #BAMPI#

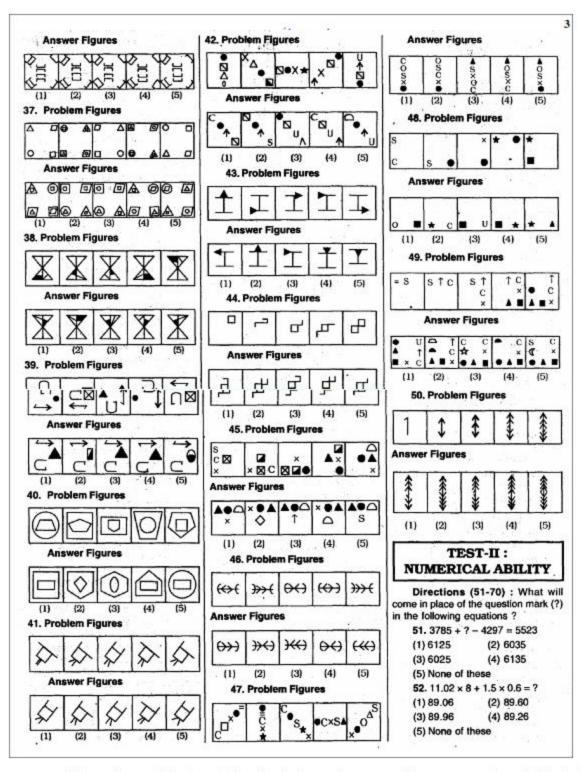
  - (5) None of these
- 29. What will be the code for 348057 ?
  - (1) \$BHRIA
- (2) MBHARI
- (3) \$MBHR\$
- (4) \$BHRAIS
- (5) None of these
- 30. Which of the following num-
- bers can represent "AMPT#"?
  - (i) 453198
- (ii) 753198
- (ii) 653192
- (1) Only (i) or (iii)
- (2) Only (iii)
- (3) Only (ii) or (iii)
- (4) Only (i) or (ii)
- (5) None of these

- (3) M, R, B (4) M, K, R
- (5) None of these
- 33. Which fruit does R like ?
- (1) Apple
- (3) Mango (4) Pineapple
- (5) None of these
- 34. Who are the three girls among the friends?
  - (1) K, R, W (2) R, K, P
  - (3) K, M, P
  - (4) Data inadequate
  - (5) None of these
  - 35. Which fruit does B like ?
  - (1) Mango
- (2) Grapes
- (3) Apple (4) Watermelon (5) None of these

Directions (36 - 50): In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued?

36. Problem Figures





53. 
$$\frac{3}{5}$$
 of  $\frac{4}{7}$  of  $\frac{7}{9}$  of 1380 = ?

(1) 378 (2) 376

(3) 368 (4) 386

(5) None of these

54. 75% of 580 + 58% of 750 = ?

(1) 840 (2) 860

(3) 680 (4) 780

(5) None of these

55.  $36 \times 45 + \sqrt{7} = 1700$ 

(1) 640 (2) 360

(3) 80 (4) 6400 (5) None of these

56. 12<sup>2</sup> + 16 = ?

(1) 180 (2) 160

(3) 240 (4) 156

(5) None of these

**57.** 
$$2\frac{3}{5} + 4\frac{1}{5} - 3\frac{2}{5} = ?$$

(1)  $3\frac{1}{5}$  (2)  $3\frac{4}{5}$ 

(3)  $4\frac{2}{5}$  (4)  $4\frac{3}{5}$ 

(5) None of these

**58.**  $10^{7.5} \times 10^{4.5} \div 10^2 = 10^7$ 

(1) 10 (2) 6

(3) 8.5 (4) 9.5 (5) None of these

(5) None of these

 $59.36^2 - 24^2 = ?$ (1) 840 (3)

(1) 840 (2) 640 (3) 720 (4) 960

(5) None of these

**60.**  $32 \times 15 - 1850 \div 37 = ?$ 

(1) 295 (2) 326

(3) 410 (4) 430

(5) None of these

**61.**  $11\frac{2}{9} \times \frac{36}{101} = ?$ 

(1) 16 (2) 18

(3) 4 (4) 7

(5) None of these

**62.**1087.05 + 187.005 + 87.005 =?

(1) 1361.066

(2) 1361.556 (3) 1361.055 (4) 1361.06

(5) None of these

63.  $\sqrt{2} + 187 = 220$ 

(1) 1089 (2) 529

(3) 23 (4) 33 (5) None of these

64.  $\frac{27 \times 2^3 + 18}{6} = ?$ 

1)3

(2) 2

(3)  $\frac{9}{2}$ 

(4) 3

(2)20

(5) None of these

65. 80% of 135 + 7% of 750 = 228

(1) 25

3) 16 (4) 24

(5) None of these 66. 632 ÷ 8 + 11<sup>2</sup> = ?

(1) 180 (2) 185

(3) 191 (4) 199 (5) None of these

67. ? of  $\frac{7}{8}$  of  $\frac{1}{3}$  of  $\frac{2}{7} = 12$ 

(1) 108 (2) 144

(3) 132 (4) 136 (5) None of these

68. 10101.001 + 1001.01 + 101.1= ?

(1) 12121.011 (2) 11111.111

(3) 12203.101 (4) 11203.111

(5) None of these 69. 2310 ÷ 14 ÷ 5 = ?

(1) 33 (2) 825

(4) 35 (4) 233 (5) None of these

70. 198 × 15 ÷ 30 = ?

(1) 98 (2) 19 (3) 96 (4) 93

(5) None of these

Directions (71-75): What should come in place of the question mark (?) in the following number series?

71. 2 5 11 23 47 ? (1) 95 (2) 93

(1) 95 (3) 98

3) 98 (4) 94

(5) None of these

72.7 8 12 21 37 ?

(1) 64 (2) 63

(3) 62 (4) 61

(5) None of these

73. 16 8 12 30 105 ?

(1) 387.5 (2) 470.5 (3) 367.5 (4) 472.5

(5) None of these

74.3 7 19 55 163 ?

(1) 467 (2) 487

(3) 475 (4) 485

(5) None of these 75, 11 16 23 32 43 ?

(1) 55 (2) 57 (3) 58 (4) 59

(5) None of these

76. 40% of the number is equal to three-fourth of the another number. What is the ratio between first number

and second number ?

(1) 15: 16 (2) 15: 8 (3) 9: 15 (4) 8: 17

(5) None of these

77. A 350 metre long train crosses a signal post in 18 seconds. What is the speed of the train in km per hour?

(1) 76 (2) 60

(3) 64 (4) 72 (5) None of these

78. A and B together can do a piece of work in 4 days. If A alone can do in 6 days. In how many days B can alone complete the same piece of work?

(1) 12 (2) 8

(3) 9 (4) 16

(5) None of these

79. What is the compound interest accrued by Ravindra on an amount of Rs. 18000 at the rate of 10 p.c.p.a. at the end of three years?

(1) Rs. 23498

(2) Rs. 23400 (3) Rs. 23958

(4) Rs. 23900

(5) None of these

80. A shopkeeper selfs a T.V. set on discount of 8% of print price and gains 25%. If print price was Rs. 20000 then, what was the cost price?

(1) Rs. 13800 (2) 14720 (3) Rs. 14800 (4) 13720

(5) None of these

81. The ratio of number of students taking admission in organisation X and Y was 5:8. If 20% of students exceed in organisation X and 10% of students exceed in organisation Y, then new ratio of students is

(1) 15:22 (2) 15:16 (3) 5:4 (4) 5:7

(5) None of these

82. The number obtained by interchanging the digits of a two digit number is less than the original number by 18. If sum of the digits is 6, what was the original two digit number?

- (1)51
- (2)24
- (3)42
- (4) 15
- (5) None of these

83. Samar spends 52% of his monthly salary on household expenditure and 23% on miscellaneous expenditure. If he is left with Rs. 4500, what is his monthly salary?

- (1) Rs. 16000
- (2) Rs. 17500
- (3) Rs. 17000
- (4) Rs. 18500
- (5) None of these

84. Number of girls in a class is 44 which is 55% of the total number of students. How many boys are there in the class?

- (1)75
- (2)76
- (3)84
- (4)82
- (5) None of these

 Average marks obtained in History by 45 students in 'A' division are 75 and the average marks obtained by 40 students in 'B' division are 78. What are the overall average marks obtained in History by the students in both the divisions (rounded off to two digits after decimal) ?

- (1) 76.81
- (2) 77.11
- (3) 77.41
- (4) 76.41
- (5) None of these

86. A shopkeeper purchased 245 pieces of an article at Rs. 30 per piece. He spent Rs. 980 on transport and Rs. 1470 on packing the articles. He sold the articles at the rate of Rs. 50% per piece. What is the per cent profit earned?

- (1)25
- (2)20
- (3)28
- (4) 22.5

(5) None of these

87. Difference between the compound interest and simple interest accrued in two years at 8 p.c.p.a. is Rs. 128. What is the principal amount?

- (1) Rs. 18000
- (2) Rs. 16000
- (3) Rs. 20000
- (4) Cannot be determined
- (5) None of these

w vacquitment and 88. Present ages of father and the son are in the ratio of 5:1 respectively. Seven years hence this ratio becomes 3: 1. What is son's present age in vears?

- (1)8
- (2)5
- (4)7(3)6
- (5) None of these

89. What will come in place of both the question marks (?) in the following equation ?

- 49 25
- (1)45
- (2)42(4) 37
- (3)32
- (5) None of these

90. Production of wheat in 2004 from three states X, Y and Z was in the ratio of 5:8:7 respectively. If production of state 'Y' is more than that of state 'X' by 1350 tons, what was the total production of the three states in tons?

- (1) 8500
- (2) 9000
- (3) 9200
- (4) Cannot be determined
- (5) None of these

Q1 If the numerator of a fraction is increased by 20% and the denominator is not changed, the resultant frac-

tion thus obtained is  $\frac{2}{3}$ . What was the original fraction ?

- (5) None of these

92. 5 students are to be seated on 5 seats. In how many different ways can they be seated?

- (1) 120
- (2) 20
- (3)60
- (4)72
- (5) None of these

93. If 2x - 3y = 1 and 3x + y = 18then what is the value of x-y?

- (1) -2
- (2) 2
- (3) -3
- (4) 3
- (5) None of these

94. If the length of a rectangle is increased by 40% and the breadth is reduced by 20%, what will be the effect on its area?

- (1) Increase by 8%
- (2) Increase by 20%
- (3) Increase by 12%
- (4) Increase by 16%
- (5) None of these
- 95. 40% of 70% of a number is 336. What is one-third of that number?
  - (1) 475
- (2)480
- (3)420
- (4) 450
- (5) None of these

96. Cost of 5 calculators and 7 wrist watches is Rs. 3650. If the cost of a wrist watch is more than the cost of a calculator by Rs. 110, what is the cost of a calculator?

- (1) Rs. 320
- (2) Rs. 250
- (3) Rs. 350
- (4) Rs. 240
- (5) None of these

97. Poles are to be created along the boundary of a rectangular field in such a way that distance between any two adjacent poles is 1.5 metres. The perimeter of the field is 21 metres and length and the breadth are in the ratio of 4:3 respectively. How many poles will be required ?

- (1)14
- (2) 16
- (4)20(3)15
- (5) None of these

98. What will be the area of a circle whose perimeter is 88 cms?

- (1) 576 cm<sup>2</sup>
- (2) 616 cm<sup>2</sup>
- (3) 636 cm<sup>2</sup>
- (4) Cannot be determined
- (5) None of these

99. If 2x+3y+z=25, x+y+z=14and x + y = z, then what is the value of x?

- (1)7
- (2) 4
- (3)6
- (4)5(5) None of these

100. In a class of 60 students 40% can speak only Hindi, 25% can speak only English and rest of the students can speak both the languages. Total how many students can speak Enalish?

- (1)32
- (2)28
- (3) 36
- (4) 15
- (5) None of these

## TEST-III - COMPUTER AWARENESS

- 101. One advantage of dial-up Internet access is —
- (1) it utilizes broadband technology
- (2) it utilizes existing telephone security
- (3) it uses a router for security
- (4) modem speeds are very fast
  (5) None of these
- A STATE OF THE PARTY OF T
- 102. What is backup?
- (1) Adding more components to your
- network
  (2) Protecting data by copying it
- from the original source to a different destination
- (3) Filtering old data from the new data
- (4) Accessing data on tape
- (5) None of these
- 103. Network components are connected to the same cable in the topology.
- (1) Star (2) ring (3) bus
- (4) mesh (5) mixed
- 104. Two or more computers connected to each other for sharing information form a
- (1) network (2) router (3) server
- (4) tunnel (5)pipeline
- 105. A computer checks the \_\_\_\_\_ of user names and passwords for a match before granting access.
  (1) website (2) network (3) backup file (4) database (5) None of these
- 106. Computers that are portable and convenient for users who travel are known as —
- (1) supercomputers (2) Laptops
- (3) minicomputers (4) file servers
- (5) None of these

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- 107. What is the term for unsolicited e-mail?
- (1) newsgroup (2) usenet
- (3) backbone (4) flaming (5) spam
- 108. What type of program controls the various computer parts and allows the user to interact with the computer?

  (1) Utility software (2) Operating
- (1) Utility software (2)Operating system (3) World processing software (4) Database program (5) None of these
- 109. Each cell in a Microsoft Office Excel document is referred to by its cell address, which is the
- (1) cell's column label
- (2) cell's column label and worksheet tab name
- (3) cell's row label
- (4) cell's row and column labels
- (5) None of these
- 110. Which of the following is true?
  (1) byte is a single digit in a binary
- (2) bit represents a grouping of digital numbers
- (3) eight-digit binary number is called a byte
- (4) eight-digit binary number is called a bit
- (5) None of these
- 111. Office LANs that are spread geographically apart on a large scale can be connected using a corporate
- (1)CAN (2)LAN (3) DAN (4)WAN (5)TAN
- 112. What is the process of copying software programs from secondary storage media to the hard disk (1) configuration (2) download
- (3) storage (4) upload (5) installation
- 113. The code for a Web page is written using —
- (1) a fifth generation language

- (2) WinZip
- (3) Pen
- (4) Hypertext Markup Language (5)URL
- 114. Small application programs that run on a Web page and may ensure a form is completed properly or provide animation are known as — (1) flash (2) spiders (3) cookies (4) applets (5) sparks
- 115. In a relational database, this is a data structure that organizes the information about a single topic into rows and columns.
- (1)block (2) record (3)tuple (4) table (5) command line interface
- 116. The first computers were programmed using —
- (1) assembly language
- (2) machine language(3) source code
- (4) object code
- (5) spaghetti code
- 117. When the pointer, is positioned on a \_\_\_\_\_, it is shaped like a hand.
- (1) grammar error (2) hyperlink (3) screen tip (4) spelling error
- (5) formatting error
- 118. Which process checks to ensure the components of the computer are operating and connected properly? (1) Booting (2) Processing (3) Saving
- (4) Editing (5) None of these
- 119. How can the user determine what programs are available on a computer?
- (1) Checking the hard disk properties
- (2) Viewing the installed programs during the booting process
- (3) Checking the operating system for a list of installed pro-
- (4) Checking the existing files saved on the disk
- (5) None of these