ANSWER KEY

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

HINTS & SOLUTIONS

1.(5) To validate the answer, refer to the third paragraph, which mentions, " *Formulating an integrated and wholesome energy policy in the current governance structure is a complex and challenging task not only due to lack of coordination among ministries but also due to the absence of good quality consumption data and an inadvertent promotion of their own fuels over other choices, which may not always be the best option*." From the quoted text, we can infer that the statements given in options (a), (b), and (c) are correct in context of the given question. Hence, option (e) is the most suitable answer choice.

2.(3) To validate the answer, refer to the second paragraph, which mentions, " *The Department of Atomic Energy (DAE) has been left out since it has implications beyond the scope of energy and involves national security issues*." Referring to the quoted text, we can infer that the statements given in options (b) and (d) are correct in context of the given question. Hence, option (c) is the most suitable answer choice.

3.(4) Among the given phrases, the most suitable phrase to fit in the given blank is " *there is a long road ahead*". It will make the statement not only grammatically correct but also contextually meaningful. Hence, option (d) is the most suitable answer choice.

4.(3) To validate the answer, refer to the last paragraph, which mentions, " *The objective of this action is to unify water management functions, treat the issues of water management holistically and ensure better coordination of efforts.*" Referring to the quoted text, we can infer that the statements (i), (iii) and (iv) are correct in context

of the available information. Hence, option (c) is the most suitable answer choice.

5.(3) To validate the answer, refer to the first paragraph, which mentions, " *Data pertaining to consumption are barely available while supply side data collected by agencies of respective ministries are riddled with gaps*." Hence, option (c) is the most suitable answer choice.

6.(2) Among the given words, ' **consolidated'** which means ' *combine (a number of things) into a single more effective or coherent whole*' is synonymous with ' **integrated'**, which means ' *combine (one thing) with another to form a whole*'. Hence, option (b) is the most suitable answer choice.
Fecund: producing or capable of producing an abundance of offspring or new growth; highly fertile.
Felicitous: well chosen or suited to the circumstances.
Crass: showing no intelligence or sensitivity.

7.(3) Among the given words, ' **sunder'** is opposite of ' **unify'**. Hence, option (c) is the most suitable answer choice.
Unify- make or become united, uniform, or whole
Sunder- split apart
Subtle- so delicate or precise as to be difficult to analyse or describe

8.(3) Among the given highlighted words, 'muesuems' has been incorrectly spelt. The correct spelling will be museums. Hence, option (c) is the most suitable answer choice.

9.(1) Among the given highlighted words, 'archeaological' has been incorrectly spelt. The correct spelling will be 'archaeological'. Hence, option (a) is the most suitable answer choice.

10.(5) Among the given highlighted words, none of them have been spelt incorrectly. Hence, option (e) is the most suitable answer choice.

11.(1) Among the given highlighted words, ' **archieves'** has been incorrectly spelt. The correct spelling will be ' **archives'**. Hence, option (a) is the most suitable answer choice.

12.(3) Among the given highlighted words, ' **oppresed'** has been incorrectly spelt. The correct spelling will be ' **oppressed'**. Hence, option (c) is the most suitable answer choice.

13.(3) Here, the phrases given in (A) and (D) connect well to form a grammatically correct and contextually meaningful statement. Similar is the case with (C) and (F). The statements thus formed will be:
(i) In GDP (PPP), India comes a flattering third after China and the United States.
(ii) As Asia integrates, India is busy painting itself into an isolationist corner.

14.(5) Among the given phrases, none of them can be connected to make a contextually meaningful and grammatically correct statement. Hence, option (e) is the most suitable answer choice.

15.(1) Among the given phrases, only C-F can be successfully connected to make a contextually meaningful and grammatically correct statement. The statement thus formed will be:
(i) *Greece joined the EEC in 1961 but was suspended in 1967 after the military coup.*

16.(2) Among the given phrases, only A-E can be successfully connected to make a contextually meaningful and grammatically correct statement. The statement thus

formed will be:
"In a democracy such as ours we certainly need a civilised and humane police."

17.(1) Here, the phrases given in (B) and (F) connect well to form a grammatically correct and contextually meaningful statement. Similar is the case with (C) and (D). The statements thus formed will be:
(i) Public opinion has been built around a few gross misconceptions about modern policing.
(ii) Mob control techniques are a part of the police curriculum in major training institutions.

18.(5) All the highlighted words have been correctly placed and do not require any interchange. Hence, option (e) is the most suitable answer choice.

19.(4) Among the given highlighted words, 'affirmed' and 'protected' appear to be at their correct positions, but the phrase "people have applicable" indicated towards interchange. The most suitable interchange will be between 'applicable' and 'offline'. Hence, option (d) is the most suitable answer choice.

20.(1) All of the given highlighted words appear to be at their incorrect positions. To make the statement grammatically correct and contextually meaningful, it is necessary to interchange 'avail' with 'access' and 'mode' with 'millions'. Hence, option (a) is the most suitable answer choice.

21.(3) Among the given highlighted words, 'economy' and 'livelihoods' appear to be at their correct positions, but the phrase "the cab thousands of Uber" indicated towards interchange. The most suitable interchange will be between 'thousands' and 'drivers'. Hence, option (c) is the most suitable answer choice.

22.(3) Among the given highlighted words, 'services' and 'walks' appear to be at their correct positions, but the phrase "services are a broadband to" indicated towards interchange. The most suitable interchange will be between 'lifeline' and 'broadband'. Hence, option (c) is the most suitable answer choice.

23.(4) The error lies in the part (B) of the statement where, we will place 'than' after 'primitive'. With both the adjectives used for the same subject, which are followed by different propositions, we will place separate prepositions with each of them. Therefore, the correct phrase will be 'primitive than and prior to'. Hence, option (d) is the most suitable answer choice.

24.(3) Here, 'he had reached' will be replaced by 'he reached' because when two incidences of past are mentioned in a single sentence, in the main clause we will use past perfect tense whereas in the clause with before, when, etc. we will use past indefinite tense. Hence, option (c) is the correct answer.

25.(1) Here, we will replace 'their' with 'his'. When two singluar nouns are connected by 'and' and 'each' or 'every' is used before them, then they are considered as singular nouns. In such cases, the verb used with them will be in singular form and the pronoun used for the subject will also be singular. Hence, option (a) is the correct answer.

26.(3) Among the given parts of the statement, the error lies in part (B), where 'depend' will be replaced with 'depends' as here the subject – 'survival' is in singular form. Hence, option (c) is the most suitable answer choice.

27.(2) the given paragraph discusses data regarding Internet shutdowns in India, as can be gauged from the further statements. Among the given words, '**shutdowns**', which indicates '*typically a temporary closure*' makes the statement grammatically correct and contextually meaningful. Hence, option (b) is the most suitable answer choice.

28.(4) Among the given set of words, we will need to fill in the blank with the word which could indicate applying Internet shutdown in Kashmir, which has not ended yet. Here, '**imposed**', which indicates '*force (an unwelcome decision or ruling) on someone*', is the most suitable word to fit in the given blank. It makes the statement grammatically correct as well as contextually meaningful. Hence, option (d) is the most suitable answer choice.

29.(5) The given statement refers to the protests staged against the Citizenship Amendment Bill to which the state governments have retaliated by discontinuing internet service to curb the spread of protest. Among the given set of words, the most suitable word to fit in the blank is '**responded**', which makes the statement grammatically correct and contextually meaningful. Hence, option (e) is the most suitable answer choice.

30.(4) From the given statement, we can infer that Internet shutdown has been imposed under various sections/ parts of law, as per the situation prevailing within the state. Among the given words, the most appropriate word to fit in the given blank will be '**provisions**', which indicates '*a condition or requirement in a legal documen*t'. Hence, option (d) is the most suitable answer choice.

31.(2)
Total male visited on Friday $= 110 - 25 = 85$
Total male visited on Tuesday $= 80 - 30 = 50$
Required percentage $= \frac{85-50}{50} \times 100 = 70\%$

32.(4)
Total male visited on Monday $= 120 - 40 = 80$
Total male visited on Wednesday $= 100 - 35 = 65$
Required ratio $= 80 : 65 = 16 : 13$

33.(3)
Total male visited on Monday $= 120 - 40 = 80$
Total male visited on Thursday $= 90 - 50 = 40$
Required average $= \frac{80+40}{2} = 60$

34.(5)
Total male visited on Thursday $= 90 - 50 = 40$
Total male visited on Monday $= 120 - 40 = 80$
Required percentage $= \frac{80-40}{80} \times 100 = 50\%$

35.(1)
Total visitors in park on Saturday $= 90 \times \frac{120}{100} = 108$
Total male visitors on Saturday $= (100 - 35) \times \frac{120}{100} = 78$
So, total female visitors on Saturday $= 108 - 78 = 30$

36.(5)
Total number of people visited park on Saturday
$= 640 - (120 + 80 + 100 + 90 + 110) = 140$
Total females visited park on Saturday
$= 220 - (40 + 30 + 35 + 50 + 25) = 40$
So, total number of males visited park on Saturday
$= 140 - 40 = 100$

37.(2)
$\frac{45}{100} \times 400 + ?^2 = 376$
$?^2 = 196$
$? = 14$

38.(4)
$\frac{12}{100} \times ? + \frac{1}{8} \times 960 = 192$
$\frac{12}{100} \times ? = 192 - 120$
$\frac{12}{100} \times ? = 72$
$? = 600$

39.(5)

$$15 \times ? + \frac{20}{100} \times 450 = 360$$
$$15 \times ? = 360 - 90$$
$$15 \times ? = 270$$
$$? = 18$$

40.(1)

$$\frac{648}{?} + 199.5 = \frac{25}{100} \times 960$$
$$\frac{648}{?} = 40.5$$
$$? = 16$$

41.(3)

$$? + \frac{79}{6} + \frac{41}{6} = 24$$
$$? = 24 - 20$$
$$? = 4$$

42.(2)

ATQ –
$$x + y + z = 30 \times 3 = 90 \text{ ------- (i)}$$
$$x + z = 27 \times 2 = 54 \text{ ----------- (ii)}$$
From (i) and (ii) we get –
$$y = 36$$
And also given, $y + z = 33 \times 2 = 66$ ------- (iii)
Put value of y in (iii):
$$z = 30$$
So, value of $2z = 60$

43.(3)

Ratio of milk and water in vessel A
$$= 125 : 100 = 5 : 4$$
Ratio of milk and water in vessel B
$$= 120 : 100 = 6 : 5$$
$$\text{Required ratio} = \frac{36 \times \frac{5}{9} + 66 \times \frac{6}{11}}{36 \times \frac{4}{9} + 66 \times \frac{5}{11}}$$
$$= \frac{20 + 36}{16 + 30} = 28 : 23$$

44.(2)

Let total income of Veer = Rs.100x
So, total saving of Veer
$$= 100x \times \frac{70}{100} \times \frac{80}{100} \times \frac{75}{100} = Rs. \, 42x$$
$$42x = 8400 \, Rs.$$
$$x = 200 \, Rs.$$
So, total income of Veer $= 200 \times 100 = 20000 \, Rs.$

45.(1)

Profit sharing ratio of A, B & C
$$= 2000 \times 10 : 1500 \times 12 : P \times 6$$
$$= (20000) : (18000) : 6P$$
ATQ,
$$\frac{6P}{20000} = \frac{9}{10}$$
$$P = 3000 \, Rs.$$

46.(2)

Let cost price of article = Rs.100x
Marked price of article = Rs.140x
And selling price of article = Rs.84x
ATQ,
$$140x \times \frac{(100-d)}{100} \times \frac{75}{100} = 84x$$
$$d = 20\%$$

47.(2)

Equivalent CI at the rate of 10% for two years
$$= 10 + 10 + \frac{10 \times 10}{100} = 21\%$$
Equivalent CI at the rate of 20% for two years
$$= 20 + 20 + \frac{20 \times 20}{100} = 44\%$$
ATQ –
$$(P + 600) \times \frac{21}{100} - P \times \frac{44}{100} = 34$$
$$P = 400 \, Rs.$$

48.(1)

Wrong number = 104
Pattern of series –
$$12 + 27 = 39$$
$$39 + 24 = 63$$
$$63 + 27 = 90$$
$$90 + 24 = 114$$
$$114 + 27 = 141$$
$$141 + 24 = 165$$
So, 114 should come in the place of 104

49.(4)

Wrong number = 562
$$13 + 3^3 = 40$$
$$40 + 4^2 = 56$$
$$56 + 5^3 = 181$$
$$181 + 6^2 = 217$$
$$217 + 7^3 = 560$$
$$560 + 8^2 = 624$$
So, 560 should come in the place of 562.

50.(3)

Wrong number = 134
Pattern of series –
$$112 + 16 = 128$$
$$128 - 20 = 108$$
$$108 + 24 = 132$$
$$132 - 28 = 104$$
$$104 + 32 = 136$$
$$136 - 36 = 100$$
So, should be 136 come in the place of 134.

51.(4)

Wrong number = 255
Pattern of series –
$$120 = 11^2 - 1$$
$$145 = 12^2 + 1$$
$$168 = 13^2 - 1$$
$$197 = 14^2 + 1$$
$$224 = 15^2 - 1$$
$$16^2 + 1 = 257$$
$$288 = 17^2 - 1$$
So, should be 257 come in the place of 255.

52.(4)

Wrong number = 920
Pattern of series –
$$5 \times 1 + 1 = 6$$
$$6 \times 2 + 2 = 14$$
$$14 \times 3 + 3 = 45$$
$$45 \times 4 + 4 = 184$$
$$184 \times 5 + 5 = 925$$
$$925 \times 6 + 6 = 5556$$
So, 925 should come in the place of 920.

53.(2)

Total work = 60 units (LCM of 20, 15 & 10)

Efficiency of A = $\frac{60}{20}$ = 3 units/day

Efficiency of B = $\frac{60}{15}$ = 4 units/day

Efficiency of C = $\frac{60}{10}$ = 6 units/day

ATQ,

Total work done by A alone = 60 – 3 (4 + 6) = 30 units

So, wage share of A = $1000 \times \frac{30}{60}$ = 500 Rs.

54.(2)

ATQ –

$\frac{T \times (T+6)}{T+(T+6)} = \frac{80}{13}$

T = 10 hours

So, time taken by pipe B alone = (10 + 6) = 16 hours

55.(5)

Let length of train = L meter

$(72 - 12) \times \frac{5}{18} = \frac{L}{12}$

L = 200 meters

Let length of platform = P meters

So, $72 \times \frac{5}{18} = \frac{200+P}{22}$

P = 440 – 200

P = 240 meters

56.(4)

Let radius of circle be r cm.

ATQ –

$2r + 2\pi r = 232$

$r(1 + \frac{22}{7}) = 116$

r = 28 cm

Area of circle = $\frac{22}{7} \times 28 \times 28 = 2464$ cm²

57.(3)

Let radius of sphere be r cm.

$\frac{4}{3} \times \pi \times r^3 = 2304\pi$

$r^3 = 1728$

r = 12 cm

Radius of hemisphere = $12 \times \frac{3}{4} = 9$ cm

Volume of hemisphere = $\frac{2}{3} \times \pi \times 9 \times 9 \times 9 = 486\pi$ cm³

58.(2)

Favorable cases = (one red and one blue ball) or both red

So, Required probability = $\frac{6 \times 8 \times 2}{14 \times 13} + \frac{6 \times 5}{14 \times 13}$

$= \frac{48}{91} + \frac{30}{182}$

$= \frac{96+30}{182}$

$= \frac{9}{13}$

59.(1)

Required ways = $\frac{26 \times 25}{1 \times 2}$ = 325 ways

60.(5)

Required difference = $8000 \times \frac{(20+12)}{100} - 8000 \times \frac{28}{100}$

= 320

61.(2)

Total girls in P = $8000 \times \frac{20}{100} \times \frac{3}{8} = 600$

Total girls in R = $8000 \times \frac{15}{100} \times \frac{5}{12} = 500$

Required difference = 600 − 500 = 100

62.(4)

Required central angle = $\frac{(20+28)}{100} \times 360 = 172.8°$

63.(2)

Required percentage = $\frac{28-25}{25} \times 100$

$= \frac{3}{25} \times 100$ = 12%

64.(5)

Required average = $\left(\frac{20+28+12}{3}\right) \times \frac{1}{100} \times 8000$
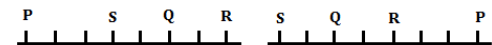
$= \frac{20}{100} \times 8000 = 1600$

65.(3)

Total students in E = $8000 \times \frac{12}{100} \times \frac{125}{100} = 1200$

Required difference = $1200 \times \frac{5-3}{8} = 300$

(66 – 70) From the given statements, four persons sit between P and Q. From here we have 2 possibilities i.e. Case 1 and Case 2. S sits 2nd to the left of Q. There are as many persons sit between Q and S as sit between R and Q.
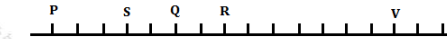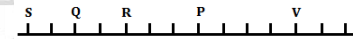
Case 1   Case 2

P   S   Q   R   S   Q   R   P

Six persons sit between R and V. S sits to the left of V. V sits 3rd from one of the extreme ends.

Case 1

P   S   Q   R   V

Case 2

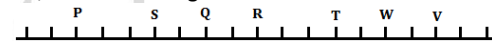S   Q   R   P   V

Only one person sits between T and W, who sits 2nd to the left of V. From this condition Case 2 is ruled out now. There are as many persons sit to the right of V as sitting to the left of P.

So, the final arrangement is-

P   S   Q   R   T   W   V

66.(1) 67.(3)   68.(2)   69.(2)   70.(4)

71.(3)

I. T<X (False)

II. T≥W (False)

72.(2)

I. F>B (False)

II. G≥B (True)

73.(5)

I. Y<U (True)

II. X>Z (True)

74.(4)

I. I>O (False)

II. K<I (False)

75.(1)

I. D≤Q (True)

II. Q≥B (False)

76.(3)

A ─2m─ B
        4m
C ─3m─ D
           6m
         E
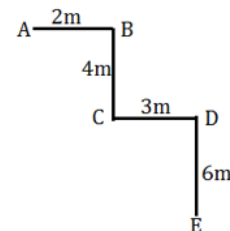
(77 - 81) From the given statements, G was born in the month which has 31 days. Here we get 2 possibilities i.e. Case 1 and Case 2. More than four persons were born between G and C. C was born on an even date.

Month	Date	Case 1 Persons	Case 2 Persons
January	1	G	
	4		G
April	1		
	4		
June	1		
	4		
November	1		
	4	C	C

No one was born between A and H but both are not born in the same month. B was born after H, who was born after A. Both A and D were born in the same month.

Month	Date	Case 1 Persons	Case 2 Persons
January	1	G	
	4		G
April	1	D	D
	4	A	A
June	1	H	H
	4	B/	B/
November	1	B/	B/
	4	C	C

F was born before E but not born on an even date. Here Case 1 is ruled out now. At least one person was born between E and C. So, the final arrangement is-

Month	Date	Persons
January	1	F
	4	G
April	1	D
	4	A
June	1	H
	4	E
November	1	B
	4	C

77.(2) 78.(2) 79.(5) 80.(2) 81.(3)

(82 - 86)

| WORDS	CODES
is	St/pq
good	mn
health	uv
necessity	Pq/st
right	jk/rt
way	rt/jk
must	jp
thinking	wi
digital	ad
india	lv

82.(5) 83.(1) 84.(4) 85.(3) 86.(5)

(87 - 91) From the given statements, Q sits second to the left of R. So, we have two possible cases. V is an immediate neighbour of Q. S sits to the immediate right of V. Two persons sit between S and P. P is not an immediate neighbour of Q.

CASE 1:   CASE 2:
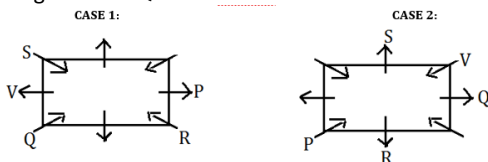
W sits opposite to U. U is not an immediate neighbour of S. T faces Q. So, here case 2 gets eliminated. So, the final

arrangement is:
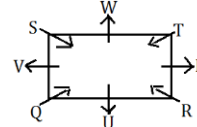
87.(3) 88.(2) 89.(5) 90.(1) 91.(4)
92.(5) **4 5 , 4 2 , 4 5 , 4 2 , 4 2**
93.(3) **3 4 5 , 7 4 5 , 7 6 1**
94.(1) 95.(1)

D I P L O M A T I C

(96 – 100) From the given statement, V lives on an even numbered floor but not on the topmost floor. From here we get 3 possibilities i.e. Case 1, Case 2, Case 3. There are three floors gap between R and V. There are as many persons live below R as live above U.

Floors	Case 1 Persons	Case 2 Persons	Case 3 Persons
8		R	
7	U		
6	V		R
5			
4		V	
3			U
2	R		V
1		U	

More than one person lives between U and V. From this condition Case 1 and Case 3 are ruled out. Four floors gap between Q and W, who lives below Q. T lives just above P's floor.

Floors	Persons
8	R
7	Q
6	T
5	P
4	V
3	S
2	W
1	U

96.(3)
97.(3)
98.(4)
99.(2)
100.(5)