SSC CHSL Tier-1 2024: Official Paper (Held On: 11 Jul, 2024 Shift 4) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2024 • 100 questions • 60 minutes • Answer key and solutions

Take this paper as a timed mock test

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

yourmocktest.com/pyq/ssc-chsl/ssc-chsl-tier-1-2024-official-paper-held-on-11-jul-2024-shift-4-p…

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

YourMockTest.com — Free Study Material

ENGLISH LANGUAGE

Q1. Select the grammatically INCORRECT sentence.

(a) They hardly meet each other.
(b) They often meet each other.
(c) They quite meet each other.
(d) They always meet each other.

Q2. The following sentence has been divided into four segments. Identify the segment that contains a grammatical error.

The new / secretary / does not likes / me.

(a) secretary
(b) me.
(c) does not likes
(d) The new

Q3. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The manager asked / the cooking team, “Who / among you is to baked the / Christmas cake this year?”

(a) the cooking team, “Who
(b) Christmas cake this year?”
(c) The manager asked
(d) among you is to baked the

Q4. Parts of the following sentence have been given as options. Select the option that contains an error.

Geeta was working now but she can be seen swimming in the river every evening.

(a) but she can be seen
(b) swimming in the
(c) Geeta was working now
(d) river every evening.

Directions

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Teachers 1_____ given continuous opportunities for self-improvement and to learn the latest innovations and advances in their professions. Each teacher 2_____expected to participate in at least 50 hours of CPD opportunities every year for their own professional development, driven 3_____ their own interests. CPD opportunities will, in particular, 4_____cover the latest pedagogies regarding foundational literacy and numeracy, formative and adaptive assessment of learning outcomes, competency-based learning and related pedagogies, 5_____ experiential learning, arts-integrated, sports-integrated and storytelling-based approaches, etc.

Q5. Select the most appropriate option to fill in blank number 1.

(a) shall be
(b) can be
(c) will be
(d) would be

Q6. Select the most appropriate option to fill in blank number 2.

(a) will be
(b) shall be
(c) can be
(d) would be

Q7. Select the most appropriate option to fill in blank number 3.

(a) for
(b) at
(c) by
(d) from

Q8. Select the most appropriate option to fill in blank number 4.

(a) partially
(b) carelessly
(c) systematically
(d) roughly

Q9. Select the most appropriate option to fill in blank number 5.

(a) such as
(b) for as
(c) from as
(d) same as

Q10. Select the most appropriate synonym of the given word.

Candid

(a) Cruel
(b) Honest
(c) Top
(d) Bright

Q11. Select the most appropriate ANTONYM of the underlined word in the given sentence.

The athlete looked unsettled before the race.

(a) Reticent
(b) Triumphant
(c) Tangent
(d) Confident

Q12. Select the most appropriate ANTONYM for the given word.

Ghastly

(a) Agitated
(b) Relaxing
(c) Pleasant
(d) Bitter

Q13. Select the most appropriate ANTONYM of the underlined word.

The waters of Germany are abundant in fish, but there are few genera and species in them.

(a) flourish
(b) allay

YourMockTest.com — Free Study Material

(c) discord
(d) deficient

Q14. Select the most appropriate ANTONYM of the given word.
Compulsory
(a) Reliable
(b) Factional
(c) Full-fledged
(d) Optional

Q15. Select the most appropriate option that can substitute the underlined word in the given sentence.
The experienced surgeon handled the delicate procedure with care and precision.
(a) seasoned
(b) untrained
(c) unskilled
(d) amateur

Q16. Parts of the following sentence have been given as options. Select the option that contains a spelling error.
I was alarmed lest we should be wreked.
(a) I was
(b) we should
(c) alarmed lest
(d) be wreked.

Q17. Select the most appropriate ANTONYM of the underlined word in the following sentence.
I have left it to his discretion to accept or decline my offer.
(a) Judgement
(b) Wisdom
(c) Inattention
(d) Calculation

Q18. Rectify the sentence by selecting the correct spelling from the options.
The advertisement of vacencies in education sector has received huge response.
(a) Vacancies
(b) Vecencies
(c) Vecancies
(d) Vacansies

Q19. Based on the situation in the sentence, select the most appropriate idiom.
After many years of rivalry, the two schools decided to _____ and participate in a National Event together.
(a) bell the cat
(b) bury the hatchet
(c) be in the doldrums
(d) go cold turkey

Q20. Select the most appropriate synonym of the given word.
Revolution
(a) Order
(b) Gyration
(c) Harmony
(d) Stagnation

YourMockTest.com — Free Study Material

Q21. Select the most appropriate option to fill in the blank.

The artist received a _____ from the audience.

(a) round of applause
(b) plenty of applause
(c) bunch of applause
(d) handful of applause

Q22. Choose the option that best describes the meaning of the idioms and phrases underlined in the given sentence.

A jack of all trades cannot survive in the world of specialisation.

(a) A businessman
(b) A person who can do many things but is not an expert in any
(c) A good communicator
(d) An expert of many jobs

Q23. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Well, I prefer eating at home from eating out.

(a) to eating out
(b) and eating out
(c) than eating out
(d) while eating out

Q24. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Do not later about the street.

(a) litre about
(b) latter about
(c) litter about
(d) loiter around

Q25. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

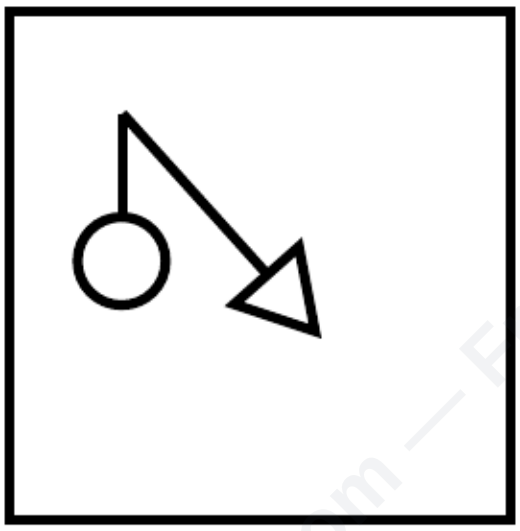
I opened the box beneath the table and took of a book, the Materia Medica.

(a) took in
(b) took out
(c) No substitution required
(d) take off

GENERAL INTELLIGENCE

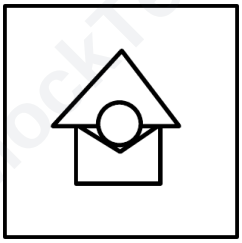
Q26. Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

YourMockTest.com — Free Study Material

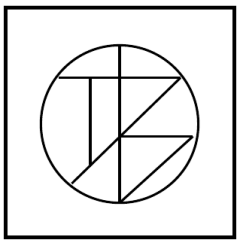


(X)

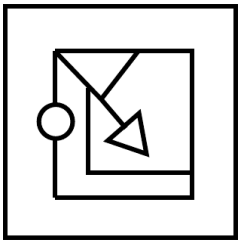
(a)



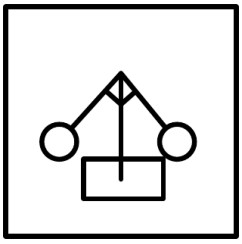
(b)



(c)

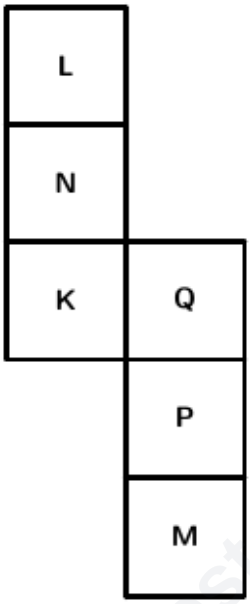


(d)



YourMockTest.com — Free Study Material

Q27. What would be the letter on the opposite side of 'P' if the given sheet is folded to form a cube?

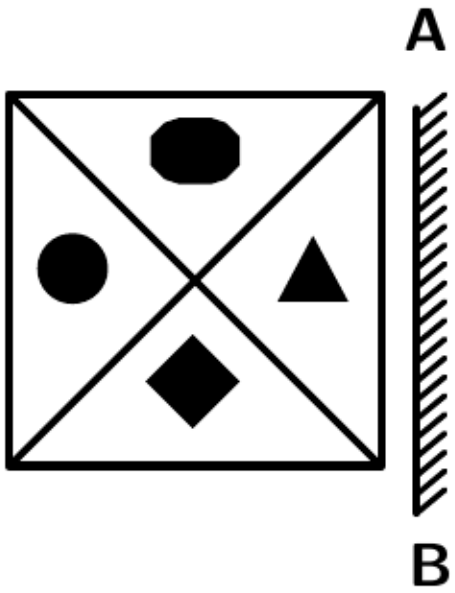


(a) M
(b) K
(c) L
(d) N

Q28. IJLO is related to GHJM in a certain way based on the English alphabetical order. In the same way, HIKN is related to FGIL. To which of the following is EFHK related, following the same logic?

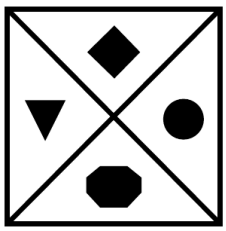
(a) CEDI
(b) CEFI
(c) CDEF
(d) CDFI

Q29. Select the correct mirror image of the given figure when the mirror is placed at AB as shown below.

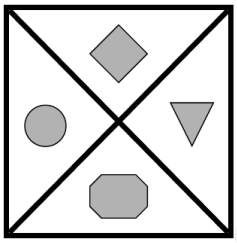


YourMockTest.com — Free Study Material

(a)



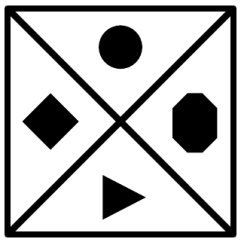
(b)



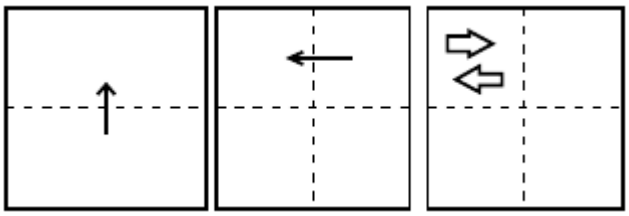
(c)



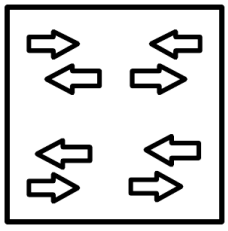
(d)



Q30. A square sheet of paper is folded along the dotted Line successively along the directions shown and is then punched in the last. How would the paper look when unfolded?

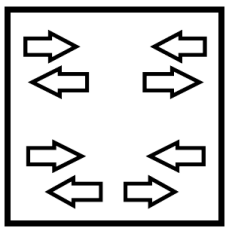


(a)

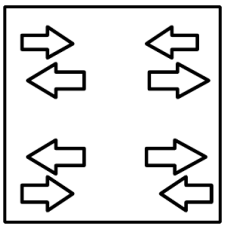


YourMockTest.com — Free Study Material

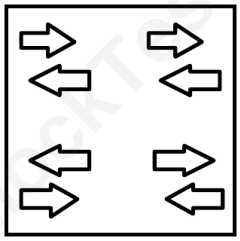
(b)



(c)



(d)



Q31. CYRF is related to NJCQ in a certain way based on the English alphabetical order. In the same way, GBUM is related to RMFX. To which of the following is CZKP related, following the same logic?

(a) NAKV
(b) NAVK
(c) NKVA
(d) NKAV

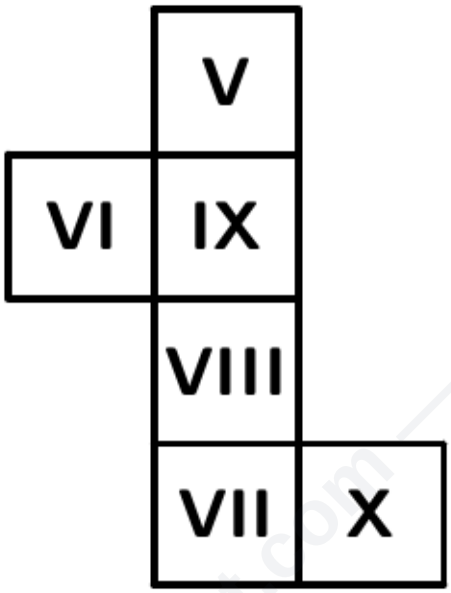
Q32. Which of the following letter-clusters can replace the question mark (?) in the given series to make it logically complete?

JMD, OHJ, ?, YXV, DSB

(a) RST
(b) VCP
(c) TCP
(d) AOZ

Q33. What would be the Roman numeral on the opposite side of 'V' if the given sheet is folded to form a cube?

YourMockTest.com — Free Study Material



(a) VIII
(b) VI
(c) X
(d) VII

Q34. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(4, 8, 32)

(7, 14, 56)

(a) (11, 33, 88)
(b) (11, 33, 77)
(c) (11, 22, 77)
(d) (11, 22, 88)

Q35. In a certain language, ‘protect your health’ is written as ‘Df Bk Tu’ and ‘health is wealth’ is written as ‘Po Tu Le'. How is ‘health’ written in the given language?

(a) Tu
(b) Df
(c) Bk
(d) Po

Q36. Which of the following numbers will replace the question mark (?) in the given series?

[5/9], [14/9], [23/9], [32/9], [41/9], ?

(a) [47/9]
(b) [44/9]
(c) [50/9]
(d) [51/9]

Q37. What should come in place of ? in the given series based on the English alphabetical order?

QRS MXB IDK EJT ?

(a) AAC
(b) APC
(c) CPA
(d) PCA

YourMockTest.com — Free Study Material

Q38. What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

87 ÷ 3 + 35 - 88 × 11 = ?

(a) 232
(b) 233
(c) 234
(d) 231

Q39. In a certain code language,

A % B means 'A is the mother of B'

A # B means 'A is the brother of B'

A @ B means 'A is the wife of B'

A & B means 'A is the father of B'

Based on the above, how is P related to T if 'P & Q % R # S @ T'?

(a) Wife's mother's brother
(b) Wife's father
(c) Wife's mother's father
(d) Wife's brother

Q40. Three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

(a) ORT
(b) DGH
(c) JMN
(d) UXY

Q41. What should come in place of the question mark (?) in the given series?

86, 88, 90, 92, 94, ?

(a) 96
(b) 98
(c) 99
(d) 97

Q42. If 25 August 2006 was Friday, then what was the day of the week on 25 August 2018?

(a) Sunday
(b) Thursday
(c) Saturday
(d) Wednesday

Q43. Each of the letters in the word FRANCHISE are arranged from left to right in alphabetical order to form a new word. How many letters are there in the English alphabetical series between the alphabet which is fifth from the left and the one which is third from the right in the newly formed word?

(a) Five
(b) Six
(c) Seven
(d) Four

Q44. In this question, three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follows/follow from the statements.

Statements:

No rose is an orchid.

All roses are lilies.

YourMockTest.com — Free Study Material

All lilies are lotuses.

Conclusions:

I. Some lilies are orchids.

II. Some lotuses are orchids.

III. All lilies are orchids.

(a) Both conclusions II and III follow.
(b) Both conclusions I and II follow.
(c) Neither conclusions I, II nor III follows.
(d) Both conclusions I and III follow.

Q45. If ‘A’ stands for ‘÷’, ‘B’ stands for ‘×’, ‘C’ stands for ‘+’ and ‘D’ stands for ‘–’, then the resultant of which of the following will be 421?

(a) 63 B 7 A 125 D 5 C 5
(b) 63 C 7 D 125 A 5 B 5
(c) 63 B 7 D 125 A 5 C 5
(d) 63 A 7 D 125 B 5 C 5

Q46. What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

125 ÷ 5 + 19 - 190 × 19 = ?

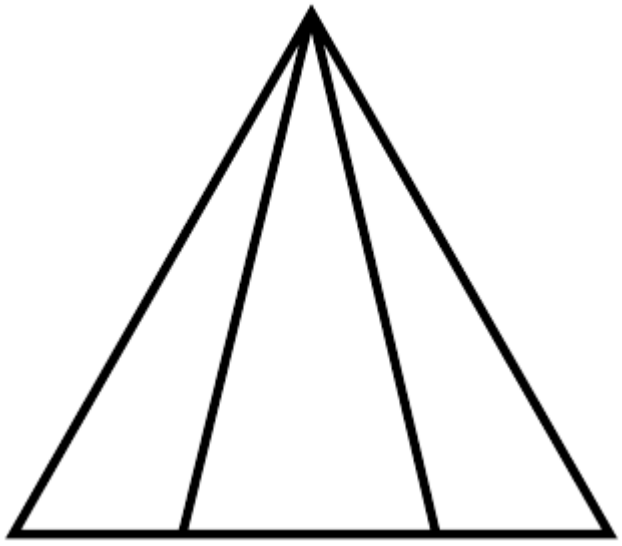
(a) 626
(b) 606
(c) 616
(d) 636

Q47. 78 is related to 30 following a certain logic. Following the same logic, 67 is related to 26.

To which of the following is 54 related, following the same logic?

(a) 28
(b) 20
(c) 16
(d) 18

Q48. Find the number of triangles in the given figure.



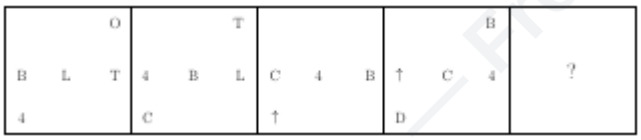
(a) 5
(b) 4
(c) 8
(d) 6

YourMockTest.com — Free Study Material

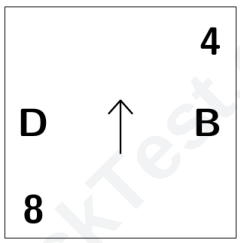
Q49. In a certain code language. ‘mix jaggery well’ is written as ‘rb co ot’ and ‘well done boss’ is written as ‘cx rb op’. How is ‘well’ written in the given language?

(a) ot
(b) co
(c) cx
(d) rb

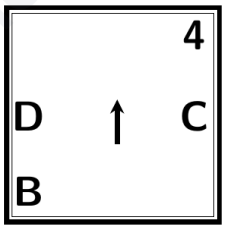
Q50. identify the figure given in the options that when put in place of the question mark (?) will logically complete the series.



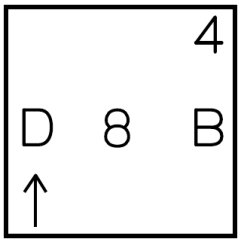
(a)



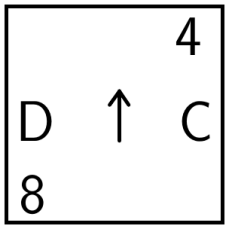
(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. The salary of employees in a factory was reduced by 20% due to economic crisis. In order to have their salary back to original amount, it must be raised by:

(a) 25%
(b) 20%
(c) 12.5%

YourMockTest.com — Free Study Material

(d) 40%

Q52. The number 611611611611 is: (a)divisible by both 6 and 11 (b)neither divisible by 6 nor by 11 (c)divisible by 6 only (d)divisible by 11 only

(a) (b)
(b) (a)
(c) (d)
(d) (c)

Q53. A right angled triangle of area 600 m^2 is to be made such that the hypotenuse is double the base. For the triangle, the hypotenuse is _____ more than the base.

(a) 24.36 m
(b) 26.32 m
(c) 22.32 m
(d) 20.36 m

Q54. An election was held between two candidates. The winning candidate scored 54% of the valid votes and won by 88 votes. If 58 votes were declared invalid, then find the total number of votes polled in the election.

(a) 1156
(b) 1850
(c) 2000
(d) 1158

Q55. Tom travelled 285 km in 6 hours. In his total travelling, he travelled the first part by bus at 40 km/hr and the remaining part by train at 55 km/hr. How much distance has he travelled by train?

(a) 165 km
(b) 155 km
(c) 135 km
(d) 120 km

Q56. What should be added to each term of the ratio 5 : 11 so that the ratio becomes 3 : 5?

(a) 6
(b) 4
(c) 5
(d) 2

Q57. The volume of rectangular block is 12288 m^3. Its dimension are in the ratio of 4 : 3: 2. If the entire surface is polished at the rate 2 paise per m^2,then find the total cost of polishing

(a) Rs. 33.28
(b) Rs. 11.14
(c) Rs. 66.56
(d) Rs. 44.42

Q58. If $\tan A + \sin A = x$, $\tan A - \sin A = y$, what is the value of $x^2 - y^2$?

(a) $\sqrt{xy}$
(b) $4\sqrt{xy}$
(c) $4\sqrt{(x/y)}$
(d) $2\sqrt{(x/y)}$

Q59. My father is presently 25 years older than me. The sum of our ages 5 years ago was 39 years. Find my present age.

(a) 15 years
(b) 20 years
(c) 12 years
(d) 13 years

YourMockTest.com — Free Study Material

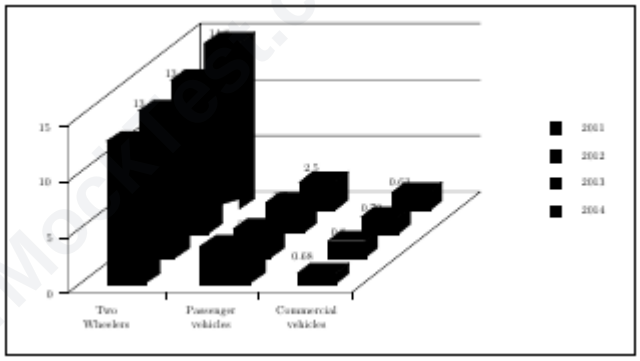
Q60. The marked price of a table lamp is Rs. 2,165. During the festive season, it is sold for Rs. 1,710.35. Find the percentage discount offered.

(a) 22.5%
(b) 21%
(c) 20.5%
(d) 18%

Q61. If the price of a commodity is increased by 36%, by what percentage (rounded off to 1 decimal place) should its consumption be decreased so that the expenditure of the commodity stays the same?

(a) 36%
(b) 32%
(c) 26.5%
(d) 29.5%

Q62. The given chart represents the sales of automobiles in India (by type, in million units) from the year 2011 to 2014. Study the chart and answer the question that follows.



The percentage increase in the sales in 2013 over the previous year was the maximum for which of the categories of vehicles?

(a) Passenger vehicles
(b) Two wheelers and Passenger vehicles
(c) Commercial vehicles
(d) Two wheelers

Q63. In ΔABC,D and E are points on sides AB and AC, such that DE||BC. If AD = x,DB = x - 3,AE = x + 3 and EC = x - 2, then the value of x is:

(a) 4.0
(b) 4.5
(c) 5.2
(d) 4.2

Q64. What is the area (in square units) of the sector if the radius of the circle is given to be 24 units and the arc length is 7.5 units?

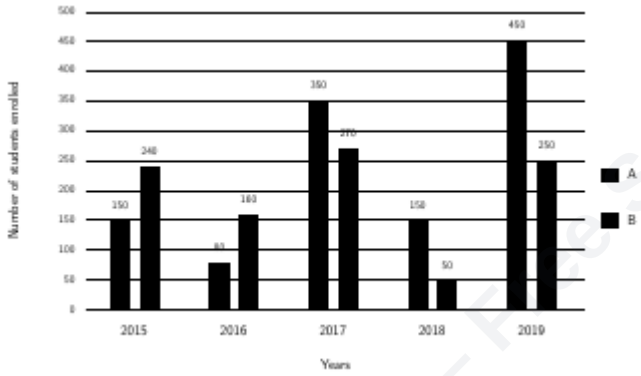
(a) 45
(b) 180
(c) 90
(d) 135

Q65. How much simple interest will Rs. 5,000 earn in 14 months at a 12% interest rate per annum?

(a) Rs. 600
(b) Rs. 500
(c) Rs. 800
(d) Rs. 700

YourMockTest.com — Free Study Material

Q66. Refer to the bar graph below and answer the question that follows.



What is the difference between the number of students enrolled in Institute A in 2015 and 2017 and that in Institute B in 2016, 2018 and 2019?

(a) 40
(b) 100
(c) 75
(d) 150

Q67. X, Yand Z can do a work in 24 days. 5 days and 12 days, respectively. In how many days can they do the same work if they work together?

(a) 1/24 days
(b) 7/24 days
(c) 3(1/13) days
(d) 4 days

Q68. The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

The numbers in the brackets give the maximum marks in each subject.

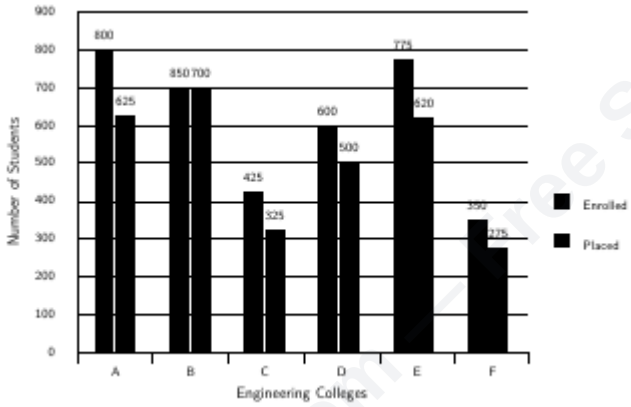
Student	**Subject (Max. Marks)**					
Maths	Chemistry	Physics	Geography	History	Computer Science	
(150)	(130)	(120)	(100)	(60)	(40)	
Ayush	90	50	90	60	70	80
Aman	100	80	80	40	80	70
Sajal	90	60	70	70	90	70
Rohit	80	65	80	80	60	60
Muskan	80	65	85	95	50	90
Tanvi	70	75	65	85	40	60
Tarun	65	35	50	77	80	80

How many students secured a raw score of 135 in Maths?

(a) 3
(b) 0
(c) 2
(d) 1

YourMockTest.com — Free Study Material

Q69. The following bar graph represents the total number of students enrolled and the number of students who got campus placement in six different engineering colleges A, B, C, D, E, and F. Study the graph carefully and answer the question given below:



What per cent (correct up to two decimal places) of total enrolled students have got campus placements in colleges A, C, and F?

(a) 82.78%
(b) 86.67%
(c) 79.67%
(d) 77.78%

Q70. If 15/8+[{4/5 of 5/12÷ (11/15)}× 17/12] is expressed in the form of a/b where a and b are integers and relatively prime to each other, the value 4b — a is:

(a) 225
(b) 189
(c) 313
(d) 164

Q71. If L is the mid-point of side BC of ΔABC and the area of ΔABL is 15 cm², then the area (in sq cm) of ΔABC is:

(a) 30
(b) 27
(c) 32
(d) 25

Q72. If 10% of 24% of x is 240,then x = ?

(a) 100
(b) 100000
(c) 1000
(d) 10000

Q73. A cylindrical candle, 14 cm in diameter and length 2 cm is melted to form a cuboid candle of dimensions 7 cm × 11 cm × 2 cm. How many cuboidal candles can be obtained?

(a) 4
(b) 3
(c) 2
(d) 5

Q74. In an obtuse-angled triangle ABC, the length of its longest side AB is 50 cm and one of the other two sides is 42 cm. If the area of the triangle is 294 cm2, what is the length (in cm) of its third side?

(a) 15√(21)
(b) 2√(58)
(c) 12√(43)
(d) 8√(35)

Q75. The average of 50 numbers is 23. If each number is multiplied by 13, then the new average is:

(a) 219
(b) 299
(c) 650
(d) 88

GENERAL AWARENESS

Q76. original constitution did NOT mention any fundamental duty because:

(a) it was expected that the citizens of the country would perform their duties forcefully
(b) it was expected that the citizens of the country would perform their duties willingly
(c) initially fundamental duties were punishable as per the constitution
(d) initially fundamental duties were not expected to be performed

Q77. Which of the following is the fastest way to open the Help window in Microsoft Word?

(a) Type 'help' in the search bar and then, press Enter
(b) Press F1
(c) Click the Help button on the ribbon
(d) Click the Microsoft Office button and then, click Help

Q78. Who was the first person to conduct a systematic study of chromosomes during division and called this process mitosis?

(a) Antonie van Leeuwenhoek
(b) Thomas Hunt Morgan
(c) Walther Flemming
(d) Friedrich Miescher

Q79. According to the Census of India 2011, which of the following states has the largest Buddhist population?

(a) Uttar Pradesh
(b) Maharashtra
(c) Madhya Pradesh
(d) West Bengal

Q80. Which of the following hills is located in the Eastern most part of India?

(a) Jaintia Hills
(b) Garo Hills
(c) Khasi Hills
(d) Patkai Bum Hills

Q81. Who captained India to victory in the 2011 Cricket World Cup final win over Sri Lanka?

(a) Sourav Ganguly
(b) Rahul Dravid
(c) Mahendra Singh Dhoni
(d) Sachin Tendulkar

Q82. With reference to 'Saila dance' consider the following statements and select the correct option.

a) A group comprising of male performers.
b) The dance is performed with bamboo sticks.
c) It is performed after the cutting of crops.

(a) Both b and c
(b) Both a and b
(c) Both a and c
(d) a, b, c

YourMockTest.com — Free Study Material

Q83. Which of the following measures can be adopted by the government to reduce revenue deficit?

(a) Offering freebies
(b) Increasing subsidies
(c) Tax reforms
(d) Increasing money supply

Q84. Which British colonel is remembered as the Butcher of Amritsar for his role in the Jallianwala Bagh massacre in 1919?

(a) Reginald Dyer
(b) Robert Clive
(c) William Slim
(d) William Birdwood

Q85. Which function is used to calculate the maximum value in a selected column in MS Excel?

(a) Max
(b) Auto max
(c) Auto high
(d) High

Q86. In Equestrian sports, _____ occurs when a horse or rider lowers an element of a jump that establishes the height of an obstacle.

(a) canter
(b) curb
(c) knockdown
(d) clean round

Q87. In cricket, a fast, head-high delivery of the ball is referred to as _____.

(a) grubber
(b) bouncer
(c) duck
(d) leg-bye

Q88. The Press and Registration of Books (PRB) Act was enacted in which year?

(a) 1857
(b) 1877
(c) 1867
(d) 1887

Q89. From which book is the national song of India compiled?

(a) Katha Upanishad
(b) Mandukya Upanishad
(c) Anand Math
(d) Bharat Bharti

Q90. Every year in the month of February, this camel festival is organised by Rajasthan Tourism Development Corporation in _____.

(a) Barmer
(b) Jodhpur
(c) Bikaner
(d) Jaisalmer

Q91. In which of the following liquids would anthracene dissolve easily?

(a) Water
(b) Benzene
(c) Methane

YourMockTest.com — Free Study Material

(d) Sodium chloride

Q92. Who among the following is related to Hindustani classical singing?

(a) Mallikarjun Mansur
(b) Aruna Sairam
(c) Srinavasa Iyer
(d) Ramanuj Iyengar

Q93. In March 2023, the Uttarakhand government had approved how much horizontal reservation for statehood activists in state government jobs?

(a) 15%
(b) 10%
(c) 8%
(d) 5%

Q94. According to Census 2011, which union territory recorded the highest female literacy rate in India?

(a) Lakshadweep
(b) Chandigarh
(c) Puducherry
(d) Delhi

Q95. Which star is also known as the 'Pole Star'?

(a) The North star
(b) The West star
(c) The South star
(d) The East star

Q96. Who amongst the following Delhi Sultanate rulers sent his army under Malik Kafur's command to conquer South India?

(a) Alauddin Khilji
(b) Ghiyas-ud-din Balban
(c) Qutub-al-din Aibak
(d) Iltutmish

Q97. Who among the following is NOT associated with the Green Revolution?

(a) Chidambaram Subramaniam
(b) MS Swaminathan
(c) P Chidambaram
(d) Norman Borlaug

Q98. Which group of states was concentrated in the cotton production in the early years to develop textile industry?

(a) Punjab and Haryana
(b) Bihar and West Bengal
(c) Maharashtra and Gujarat
(d) West Bengal and Odisha

Q99. Thee 42nd Constitutional Amendment Act of Indian Constitution was passed in the year _____.

(a) 1978
(b) 1977
(c) 1979
(d) 1976

Q100. MLAs in which of the following states/UTs received an increase of about 66% in salaries and allowances w.e.f. 14 February 2023?

(a) Bihar
(b) Tamil Nadu

YourMockTest.com — Free Study Material

(c) Delhi
(d) Lakshadweep

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) They quite meet each other.

The correct answer is Option 3.

Key Points

• The primary issue in the sentence is the incorrect use of the word "quite" in this context.
• "Quite" is not used in this manner to describe the frequency of meetings.
• The correct phrases should be "They hardly meet each other", "They often meet each other", or "They always meet each other".
• Thus, the error is located in option 3 of the given sentences.
• Therefore, the correct answer is Option 3.

Correct Sentence: "They quite meet each other." is not grammatically correct. Instead, you could say "They frequently meet each other."

Additional Information

• Option 1: "They hardly meet each other." – This sentence is grammatically correct and does not require any changes.
• Option 2: "They often meet each other." – This sentence is grammatically correct and does not require any changes.
• Option 4: "They always meet each other." – This sentence is grammatically correct and does not require any changes.
• Option 5 – This option is not provided in the question, hence not applicable.

Q2. Answer: (c) does not likes

The correct answer is Option 3)

Key Points

• The primary issue in the sentence is the incorrect use of the verb form "likes" after "does not."
• In English, when using "does not" (or "doesn't"), the base form of the verb should be used, which is "like" in this case.
• The correct phrase should be "does not like," ensuring grammatical correctness.
• Thus, the error is located in part 3 of the sentence.
• Therefore, the correct answer is Option 3.

Correct Sentence: "The new secretary does not like me."

Additional Information

• 1: "The new" – This part of the sentence is grammatically correct and does not require any changes.
• 2: "secretary" – This part of the sentence is grammatically correct and does not require any changes.
• 4: "me." – This part of the sentence is grammatically correct and does not require any changes.
• No error – This would be the correct option if there were no mistakes in the sentence, but there is an error in part 3.

YourMockTest.com — Free Study Material

Q3. Answer: (d) among you is to baked the

The correct answer is Option 4)

Key Points

• The primary issue in the sentence is the incorrect verb form "baked" after "is to."

• The correct verb form should be "bake" to match the infinitive structure "is to."

• The correct phrase should be "among you is to bake the," ensuring grammatical correctness and clarity.

• Thus, the error is located in Option 4 of the sentence.

Correct Sentence: "The manager asked the cooking team, “Who among you is to bake the Christmas cake this year?”

Additional Information

• Option 1: "the cooking team, “Who" – This part of the sentence is grammatically correct and does not require any changes.

• Option 2: "Christmas cake this year?"" – This part of the sentence is grammatically correct and does not require any changes.

• Option 3: "The manager asked" – This part of the sentence is grammatically correct and does not require any changes.

• Option 5: "among you is to baked the" – This part contains the error as it should be "among you is to bake the."

Q4. Answer: (c) Geeta was working now

The correct answer is Option 3)

Key Points

• The primary issue in the sentence is the use of the word "now" with the past continuous tense "was working."

• The word "now" typically indicates present time, which is inconsistent with the past continuous tense.

• The correct phrase should be "Geeta is working now," ensuring grammatical correctness and clarity.

• Thus, the error is located in Option 3 of the sentence.

Correct Sentence: "Geeta is working now but she can be seen swimming in the river every evening."

Additional Information

• Option 1: "but she can be seen" – This part of the sentence is grammatically correct and does not require any changes.

• Option 2: "swimming in the" – This part of the sentence is grammatically correct and does not require any changes.

• Option 4: "river every evening." – This part of the sentence is grammatically correct and does not require any changes.

Q5. Answer: (c) will be

The correct answer is Option 3)

Key Points

• The use of "will be" indicates a future action that is intended to be a part of ongoing professional development for teachers.

• "Shall be" can also indicate a future action but is often more formal and less commonly used in contemporary English.

• "Can be" suggests possibility rather than certainty, which doesn't align with the context of required continuous opportunities for self-improvement.

• "Would be" is conditional and hypothetical, which is not appropriate for this definitive statement about professional development requirements.

• Therefore, the correct answer is Option 3 (will be).

Correct Sentence: "Teachers will be given continuous opportunities for self-improvement and to learn the latest innovations and advances in their professions..

Q6. Answer: (a) will be

The correct answer is Option 1)

Key Points

• The phrase should indicate a future action that is a requirement for the teachers' professional development.

• "Will be" is appropriate because it indicates a definite expectation or requirement in the future.

• "Shall be" is too formal and less commonly used in contemporary English for such contexts.

• "Can be" suggests a possibility rather than a requirement, which is not suitable here.

• "Would be" is conditional and hypothetical, which does not fit the context of a mandatory requirement.

Therefore, the correct answer is Option 1 (will be).

Correct Sentence: "Teachers will be given continuous opportunities for self-improvement and to learn the latest innovations and advances in their professions. Each teacher will be expected to participate in at least 50 hours of CPD opportunities every year for their own professional development, driven by their own interests...."

YourMockTest.com – Free Study Material

Q7. Answer: (c) by

The correct answer is Option 3)

Key Points

• The preposition "by" is used to indicate the agent performing the action of the verb in sentences where the verb is in the passive voice.

• In this context, "driven by their own interests" means that the teachers' professional development is motivated or influenced by their own interests.

• The other options ("for," "at," "from") do not convey the correct relationship in this context.

• Therefore, the correct answer is Option 3 (by).

Correct Sentence: "Teachers will be given continuous opportunities for self-improvement and to learn the latest innovations and advances in their professions. Each teacher will be expected to participate in at least 50 hours of CPD opportunities every year for their own professional development, driven by their own interests.

Q8. Answer: (c) systematically

The correct answer is Option 3)

Key Points

• The word "systematically" fits well within the context of the sentence because it implies that the coverage of CPD opportunities is organized and methodical.

• The other options ("partially," "carelessly," "roughly") do not convey the appropriateness or thoroughness required in the context of professional development.

• "Partially" suggests incompletion, "carelessly" suggests a lack of diligence, and "roughly" suggests a lack of precision, none of which align with the intended meaning.

• Therefore, the correct answer is Option 3 (systematically).

Correct Sentence: "Teachers will be given continuous opportunities for self-improvement and to learn the latest innovations and advances in their professions. Each teacher will be expected to participate in at least 50 hours of CPD opportunities every year for their own professional development, driven by their own interests. CPD opportunities will, in particular, systematically cover the latest pedagogies....."

Q9. Answer: (a) such as

The correct answer is Option 1)

Key Points

• The phrase "such as" is used to introduce examples that clarify or illustrate what has been mentioned before.

• The other options ("for as," "from as," "same as") do not appropriately introduce examples in this context.

• "Such as" fits perfectly here as it introduces examples of different pedagogical approaches (experiential learning, arts-integrated, sports-integrated, and storytelling-based approaches).

• Therefore, the correct answer is Option 1 (such as).

Correct Sentence: "Teachers will be given continuous opportunities for self-improvement and to learn the latest innovations and advances in their professions. Each teacher will be expected to participate in at least 50 hours of CPD opportunities every year for their own professional development, driven by their own interests. CPD opportunities will, in particular, systematically cover the latest pedagogies regarding foundational literacy and numeracy, formative and adaptive assessment of learning outcomes, competency-based learning and related pedagogies, such as experiential learning, arts-integrated, sports-integrated and storytelling-based approaches, etc."

Q10. Answer: (b) Honest

The solution is in Hindi. Read it online.

Q11. Answer: (d) Confident

The solution is in Hindi. Read it online.

Q12. Answer: (c) Pleasant

The solution is in Hindi. Read it online.

Q13. Answer: (d) deficient

The solution is in Hindi. Read it online.

Q14. Answer: (d) Optional

The solution is in Hindi. Read it online.

Q15. Answer: (a) seasoned

The correct answer is Option 1)

Key Points

• The term "experienced" in the sentence implies someone who has significant practice and skill in a particular field.

• The word "seasoned" is a suitable synonym for "experienced," as it also conveys the idea of someone who has gained a lot of experience and skill over time.

• Other options like "untrained," "unskilled," and "amateur" do not fit the context as they imply a lack of experience or skill.

• Therefore, the correct answer is Option 1.

Correct Sentence: "The seasoned surgeon handled the delicate procedure with care and precision."

Additional Information

• Option 2: untrained – This word suggests a lack of training or experience, which is the opposite of "experienced."

• Option 3: unskilled – This term implies a lack of skill, which does not fit the context of an experienced surgeon.

• Option 4: amateur – This word refers to someone who engages in an activity for pleasure rather than as a profession, and lacks the expertise implied by "experienced."

Q16. Answer: (d) be wreked.

The solution is in Hindi. Read it online.

Q17. Answer: (c) Inattention

The solution is in Hindi. Read it online.

Q18. Answer: (a) Vacancies

The solution is in Hindi. Read it online.

Q19. Answer: (b) bury the hatchet

The solution is in Hindi. Read it online.

Q20. Answer: (b) Gyration

The solution is in Hindi. Read it online.

Q21. Answer: (a) round of applause

The solution is in Hindi. Read it online.

Q22. Answer: (b) A person who can do many things but is not an expert in any

The correct answer is Option 2)

Key Points

• The idiom "a jack of all trades" refers to a person who can do many different types of work but is not necessarily very skilled or an expert in any of them.

• This idiom is often used to emphasize the variety of skills a person possesses, but also to highlight their lack of specialization.

• The correct meaning provided by Option 2 is "A person who can do many things but is not an expert in any."

• The other options do not accurately capture the essence of the idiom.

Therefore, the correct answer is Option 2 (A person who can do many things but is not an expert in any).

Q23. Answer: (a) to eating out

The correct answer is Option 1)

Key Points

• The phrase "prefer eating at home from eating out" is incorrect.

• The correct preposition to use with "prefer" when comparing two activities is "to."

• Thus, the correct phrase should be "prefer eating at home to eating out."

• This correction ensures the sentence is grammatically correct and clear.

• Therefore, the correct answer is Option 1.

Correct Sentence: "Well, I prefer eating at home to eating out."

Additional Information

• Option 2: "and eating out" is incorrect as it does not convey a preference.

• Option 3: "than eating out" is incorrect as "prefer" is not followed by "than."

• Option 4: "while eating out" is incorrect as it changes the meaning of the sentence.

YourMockTest.com – Free Study Material

Q24. Answer: (d) loiter around

The correct answer is Option 4)

Key Points

• The primary issue in the sentence is the incorrect use of the word "later" which does not fit contextually.

• The word "loiter" means to stand or wait around without apparent purpose, which makes sense in the context of the street.

• The correct phrase should be "loiter around the street," ensuring the sentence is both grammatically correct and contextually appropriate.

• Therefore, the correct answer is Option 4.

Correct Sentence: "Do not loiter around the street."

Additional Information

• Option 1: "litre about" – This option is incorrect as "litre" is a unit of measure and does not fit the context.

• Option 2: "latter about" – This option is incorrect as "latter" refers to the second of two things mentioned and does not fit the context.

• Option 3: "litter about" – This option is incorrect as "litter" means to make a place messy with trash, which does not fit the context.

• Option 5: (No option provided) – This option is not applicable.

Q25. Answer: (b) took out

The correct answer is Option 2)

Key Points

• The primary issue in the sentence is the incorrect use of the phrase "took of" instead of "took out."

• The correct verb phrase should be "took out" to indicate the action of removing something from a container.

• Therefore, the sentence should read, "I opened the box beneath the table and took out a book, the Materia Medica."

• Therefore, the correct answer is Option 2.

Correct Sentence: "I opened the box beneath the table and took out a book, the Materia Medica."

Additional Information

• No substitution required – This would be the correct option if the original sentence was grammatically correct, but the phrase "took of" is incorrect.

• Took in – This phrase does not fit the context of the sentence, as it means to absorb or understand something.

• Take off – This phrase means to remove something from a surface, which does not fit the context of taking a book out of a box.

• Took out – This is the correct phrase to use in this context, meaning to remove something from inside a container.

Q26. Answer: (c) [figure]

The image embedded in the given figure is as shown below :

Therefore Here, the given figure is embedded in option Figure - 3.

Hence, the correct answer is "Option 3".

Q27. Answer: (d) N

The faces opposite to each other are shown below:

=> As the alternate positions become opposite to each other, the remaining two faces become opposite to each other.

So, opposite pairs are:

L → K

N → P

O → M

Therefore, 'N' is the opposite of 'P'.

Hence, "N" is the correct answer.

Q28. Answer: (d) CDFI

The logic followed here is:

IJLO is related to GHJM

And,

HIKN is related to FGIL

Similarly,
EFHK is related to

Hence, "Option 4" is the correct answer.

Q29. Answer: (c) [figure]

The correct mirror image of the given figure is:
Hence, the correct answer is "Option 3".

Q30. Answer: (c) [figure]

According to the given figure:
The figure will appear when it is opened as follows:
Hence, "Option 3" is the correct answer.

Q31. Answer: (c) NKVA

The logic followed here is:
CYRF is related to NJCQ

And,
GBUM is related to RMFX

Similarly,
CZKP is related to

Hence, "Option 3" is the correct answer.

Q32. Answer: (c) TCP

The logic followed here is:
Hence, "Option 3" is the correct answer.

Q33. Answer: (a) VIII

The faces opposite to each other are shown below:
=> As the alternate positions become opposite to each other, the remaining two faces become opposite to each other.
So, opposite pairs are:
V → VIII
VI → X
IX → VII
Therefore, 'VIII' is the opposite of 'V'.
Hence, "VIII" is the correct answer.

Q34. Answer: (d) (11, 22, 88)

The logic followed here is:
Logic: (1st number × 2) + (2nd number × 3) = 3rd number.
Now,
For, (4, 8, 32)
=> (4 × 2) + (8 × 3)
=> 8 + 24 = 32.
For, (7, 14, 56)
=> (7 × 2) + (14 × 3)
=> 14 + 42 = 56.
Similarly, for (11, 22, 88)
=> (11 × 2) + (22 × 3)
=> 22 + 66 = 88.
Hence, the correct answer is "Option 4".

YourMockTest.com — Free Study Material

Q35. Answer: (a) Tu

According to the given information,

Thus, according to the given codes 'Tu' is the code for the word 'health'.

Hence, the correct answer is "Tu".

Q36. Answer: (c) [50/9]

The logic followed here is:

Hence, "Option 3" is the correct answer.

Q37. Answer: (b) APC

The logic followed here is:

Hence, "Option 2" is the correct answer.

Q38. Answer: (c) 234

Given : 87 ÷ 3 + 35 - 88 × 11 = ?

According to the question, after replacing the signs :

‘+’ and ‘-’ are interchanged

‘×’ and ‘÷’ are interchanged

So,

87 × 3 - 35 + 88 ÷ 11 = ?

87 × 3 - 35 + 8 = ?

261 + 8 - 35 = ?'

269 - 35 = ?

234 = ?

Hence, "234" is the correct answer.

Q39. Answer: (c) Wife’s mother’s father

Decoding the Symbols:

Symbol	%	#	@	&
Meaning	Mother	Brother	Wife	Father

Given: P & Q % R # S @ T

P & Q → P is the father of Q.

Q % R → Q is the mother of R.

R # S → R is the brother of S.

S @ T → S is the wife of T.

Here, P is the wife’s mother’s father of T.

Hence, the correct answer is "Option 3".

Q40. Answer: (a) ORT

The logic followed here is:

Option 1) ORT

Option 2) DGH

Option 3) JMN

Option 4) UXY

Thus, out of all the options 'ORT' is the odd one out.

Hence, "Option 1" is the correct answer.

Q41. Answer: (a) 96

The logic followed here is:

Hence, "96" is the correct answer.

YourMockTest.com — Free Study Material

Q42. Answer: (c) Saturday

Given: 25 August 2006 was Friday.

Now,

2006 to 2018 = 12 Years (9 Ordinary Years and 3 Leap Years).

And, In 12 Years = 3 Leap years and 9 Ordinary Years.

So, 3 Leap Years have 6 odd days,

And, 9 Ordinary Years have 9 odd days.

Total odd days = 6 + 9 = 15.

15 odd days → 15/7 = 2 weeks and 1 odd day.

then, 25 August 2018 will be Friday + 1 = Saturday.

Hence, the correct answer is "Option 3".

Q43. Answer: (a) Five

Given word: 'FRANCHISE'

After arranged in alphabetical order:

Alphabets	F	R	A	N	C	H	I	S	E
Alphabetical order	A	C	E	F	H	I	N	R	S

After arranged in alphabetical order,

Fifth alphabet from the left end is: H,

Third alphabet from the right end is: N,

Now,

there are 5 letters between H and N.

H	I	J	K	L	M	N

Hence, the correct answer is "Option 1".

Q44. Answer: (c) Neither conclusions I, II nor III follows.

The least possible Venn diagram for the given statements is as shown below :

Conclusions:

I. Some lilies are orchids → Does not follow (As no rose is an orchid and all roses are lilies. So it is possible but not definite)

II. Some lotuses are orchids → Does not follow (As no rose is an orchid, all roses are lilies and all lilies are lotuses. So it is possible but not definite)

III. All lilies are orchids → Does not follow (As no rose is an orchid, all roses are lilies and all lilies are lotuses. So it is possible but not definite)

Therefore Here, Neither conclusions I, II nor III follows.

Hence, the correct answer is "Neither conclusions I, II nor III follows"

Q45. Answer: (c) 63 B 7 D 125 A 5 C 5

Decoding the information:

Symbol	A	B	C	D
Meaning	÷	×	•	•

Required resultant: 421

So, checking options one by one

Option 1) 63 B 7 A 125 D 5 C 5

=>63 × 7 ÷ 125 - 5 + 5

=>63 × 0.05 - 5 + 5

=>3.15 + 5 - 5

=>8.15 - 5 = 3.15

Option 2) 63 C 7 D 125 A 5 B 5

=>63 + 7 - 125 ÷ 5 × 5

YourMockTest.com — Free Study Material

=>63 + 7 - 25 × 5
=>63 + 7 - 125
=>70 - 125 = -55
Option 3) 63 B 7 D 125 A 5 C 5
=>63 × 7 - 125 ÷ 5 + 5
=>63 × 7 - 25 + 5
=>441 + 5 - 25
=>446 - 25 = 421
Option 4) 63 A 7 D 125 B 5 C 5
=>63 ÷ 7 - 125 × 5 + 5
=>9 - 125 × 5 + 5
=>9 + 5 - 625
=>14 - 625 = -611
Thus, out of all options, only option - 3 has a resultant of '421'.
Hence, "Option 3" is the correct answer.

Q46. Answer: (c) 616

Given : 125 ÷ 5 + 19 - 190 × 19 = ?
According to the question, after replacing the signs :
'+' and '-' are interchanged
'×' and '÷' are interchanged
So,
125 × 5 - 19 + 190 ÷ 19 = ?
125 × 5 - 19 + 10 = ?
625 + 10 - 19 = ?
635 - 19 = ?
616 = ?
Hence, "616" is the correct answer.

Q47. Answer: (d) 18

The logic followed here is:
Logic: (Digit Sum of 1st number × 2) = 2nd number.
Now,
For, 78 : 30
=> (7 + 8) = 15 × 2 = 30.
For, 67 : 26
=> (6 + 7) = 13 × 2 = 26.
Similarly, for 54 : ?
=> (5 + 4) = 9 × 2 = 18.
Hence, the correct answer is "Option 4".

Q48. Answer: (d) 6

The number of triangles in the given figure is shown below:
[Number of parts × (1 + Number of parts)] ÷ 2 = Total triangles
= [3 × (1 + 3)] ÷ 2
= [3 × 4] ÷ 2
= 12 ÷ 2
= 6
Here, there are a total of 6 triangles.
Hence, "6" is the correct answer.

YourMockTest.com — Free Study Material

Q49. Answer: (d) rb

According to the given information,

Thus, according to the given codes 'rb' is the code for the word 'well'.

Hence, the correct answer is "rb".

Q50. Answer: (d) [figure]

The logic followed here is :

1) For the right top corner letter → Replaced by new element subsequently.

2) For the rest of the letters → Shift in the forward clockwise direction.

Thus, the final series is :

Hence, "Option 4" is the correct answer.

Q51. Answer: (a) 25%

Given:

Salary reduction = 20%

Formula Used:

Required increase percentage = (Reduction %)/(100 - Reduction %) × 100

Calculation:

Reduction percentage = 20%

Required increase percentage = (20)/(100 - 20) × 100

=> (20)/(80) × 100

=> (1)/(4) × 100

=> 25%

Therefore The salary must be raised by 25% to get back to the original amount.

Q52. Answer: (c) (d)

Given:

The number is 611611611611.

Formula used:

Divisibility Rules:

1. A number is divisible by 6 if it is divisible by both 2 and 3.

2. A number is divisible by 11 if the difference between the sum of the digits in the odd positions and the sum of the digits in the even positions is either 0 or a multiple of 11.

Calculation:

Check for divisibility by 6:

1. Divisibility by 2: The last digit is 1, which is not even. Hence, 611611611611 is not divisible by 2.

2. Divisibility by 3: Sum of the digits = 6 + 1 + 1 + 6 + 1 + 1 + 6 + 1 + 1 + 6 + 1 + 1 = 32. Since 32 is not divisible by 3, 611611611611 is not divisible by 3.

Since the number is not divisible by both 2 and 3, it is not divisible by 6.

Check for divisibility by 11:

Sum of digits in odd positions = 6 + 1 + 1 + 6 + 1 + 1 = 16

Sum of digits in even positions = 1 + 6 + 1 + 1 + 6 + 1 = 16

Difference = 16 - 16 = 0

Since the difference is 0, 611611611611 is divisible by 11.

=> 611611611611 is divisible by 11 only.

Therefore The correct answer is option (3).

Q53. Answer: (b) 26.32 m

Given:

Area of the right-angled triangle = 600 m²

Hypotenuse = 2 × Base

Hypotenuse > Base

Formula used:

Area of right-angled triangle = (1/2) × Base × Height
Pythagoras theorem: Hypotenuse² = Base² + Height²
Calculation:
Let the base be b meters.
Height = h meters.
Hypotenuse = 2b meters.
Area = (1/2) × b × h
600 = (1/2) × b × h
=> h = 1200 / b
Using Pythagoras theorem:
$(2b)^2 = b^2 + (1200 / b)^2$
$=> 4b^2 = b^2 + 1440000 / b^2$
=> 3b^4 = 1440000
=> b^4 = 480000
$=> b^2 = 692.82$
=> b = 26.32 m
Hypotenuse = 2 × 26.32 = 52.64 m
Difference between hypotenuse and base = 52.64 - 26.32 = 26.32 m.
Therefore, hypotenuse is 26.32 m more than the base.
Therefore The correct answer is option 2.

Q54. Answer: (d) 1158

Shortcut Trick
Difference in vote share = 54% − 46% = 8%
8% of Valid Votes = 88 => 1% = 11 => 100% = 1100
Total Votes Polled = Valid Votes + Invalid Votes
Total = 1100 + 58 = 1158
Therefore The correct answer is 1158.
Alternate Method
Given:
Winning Candidate share = 54% of Valid Votes
Winning Margin = 88 votes
Invalid Votes = 58
Let the Valid Votes be x.
=> Winner's Votes = 54% of x = 0.54x
=> Loser's Votes = (100 − 54)% of x = 46% of x = 0.46x
=> Margin = 0.54x − 0.46x = 88
=> 0.08x = 88
=> x = 88 ÷ 0.08
=> x = 1100
=> Total Votes Polled = x + Invalid Votes
=> Total = 1100 + 58 = 1158
Therefore The correct answer is 1158.
Additional Information
Vote Classification
Total Polled = Valid + Invalid. Calculations for winning/losing shares are usually based on Valid Votes unless specified otherwise.
Winning Margin
Margin = (Winner's percentage − Loser's percentage) × Total Valid Votes. For 2 candidates, Loser % = 100 − Winner %.
Percentage Change
Base Change: To find total from part, use Value ÷ Percentage. Example: If 8% = 88, then 100% = (88 ÷ 8) × 100.

YourMockTest.com — Free Study Material

Q55. Answer: (a) 165 km

Given:
Total distance = 285 km
Total time = 6 hours
Speed by bus = 40 km/hr
Speed by train = 55 km/hr
Let distance travelled by bus = x km
Formula used:
Time = Distance ÷ Speed
Total time = Time by bus + Time by train
Calculations:
Time by bus = x ÷ 40
Time by train = (285 - x) ÷ 55
Total time = 6 hours
=> x ÷ 40 + (285 - x) ÷ 55 = 6
=> (55x + 40(285 - x)) ÷ (40 × 55) = 6
=> (55x + 11400 - 40x) ÷ 2200 = 6
=> (15x + 11400) ÷ 2200 = 6
=> 15x + 11400 = 13200
=> 15x = 13200 - 11400
=> 15x = 1800
=> x = 1800 ÷ 15
=> x = 120 km
Distance travelled by train = 285 - 120 = 165 km
Therefore Distance travelled by train = 165 km

Q56. Answer: (b) 4

Given:
Initial ratio = 5 : 11
Final ratio = 3 : 5
Formula used:
If each term of the ratio a : b is increased by x, the new ratio becomes (a + x) : (b + x)
Calculations:
Let the number to be added to each term be x.
(5 + x)/(11 + x) = 3/5
=> 5(5 + x) = 3(11 + x)
=> 25 + 5x = 33 + 3x
=> 5x - 3x = 33 - 25
=> 2x = 8
=> x = 4
Therefore The correct number to be added to each term is 4.

Q57. Answer: (c) Rs. 66.56

Shortcut Trick
Ratio of dimensions = 4 : 3 : 2 => Product of ratios = 4 × 3 × 2 = 24.
Ratio constant x^3 = 12288 ÷ 24 = 512 => x = 8.
Dimensions are 32, 24, and 16 m.
Total Surface Area (TSA) = 2 × [32×24 + 24×16 + 16×32] = 2 × 1664 = 3328 m^2.
Total Cost = 3328 × 0.02 = Rs. 66.56.
Therefore The correct answer is Rs. 66.56.
Alternate Method
Given: Volume of the rectangular block = 12288 m^3, Ratio of dimensions = 4 : 3 : 2, Polishing rate = 2 paise per m^2.

YourMockTest.com — Free Study Material

Formula Used: Volume = l × w × h; Total Surface Area (TSA) = 2(lw + wh + hl).

=> Let dimensions be 4x, 3x, and 2x.

=> Volume = $4x \times 3x \times 2x = 24x^3$

=> $24x^3 = 12288$

=> $x^3 = 512$ => x = 8 m

=> Length (l) = 32 m, Width (w) = 24 m, Height (h) = 16 m

=> TSA = $2(32 \times 24 + 24 \times 16 + 16 \times 32)$

=> TSA = $2(768 + 384 + 512) = 2 \times 1664 = 3328\ m^2$

=> Cost = (3328 × 2) paise = 6656 paise

=> Total Cost in Rupees = 6656 ÷ 100 = Rs. 66.56

Therefore The correct answer is Rs. 66.56.

Additional Information

Cuboid Dimensions

Total Surface Area = 2(lb + bh + hl) and Lateral Surface Area = 2h(l + b).

Volume of Cuboid

The volume of a rectangular prism (cuboid) is given by Length × Breadth × Height.

Diagonal of Cuboid

The length of the longest rod that can be placed in a cuboid is $\sqrt{(l^2 + b^2 + h^2)}$.

Currency Conversion

To convert paise to Rupees, divide the amount by 100 as 1 Rupee = 100 Paise.

Q58. Answer: (b) $4\sqrt{xy}$

Shortcut Trick

Given $x = \tan A + \sin A$ and $y = \tan A - \sin A$.

Using the identity $(a + b)^2 - (a - b)^2 = 4ab$, we get $x^2 - y^2 = 4 \tan A \sin A$.

Since $\tan^2 A - \sin^2 A = \tan^2 A \sin^2 A$, it follows that $\sqrt{xy} = \sqrt{(\tan^2 A - \sin^2 A)} = \tan A \sin A$.

Therefore, $x^2 - y^2 = 4\sqrt{xy}$.

Therefore The correct answer is $4\sqrt{xy}$.

Alternate Method

Given values: $x = \tan A + \sin A$ and $y = \tan A - \sin A$

=> Adding both equations: $x + y = (\tan A + \sin A) + (\tan A - \sin A) = 2 \tan A$

=> Subtracting both equations: $x - y = (\tan A + \sin A) - (\tan A - \sin A) = 2 \sin A$

=> Calculating $x^2 - y^2$: $(x + y)(x - y) = (2 \tan A)(2 \sin A) = 4 \tan A \sin A$

=> Calculating xy: $(\tan A + \sin A)(\tan A - \sin A) = \tan^2 A - \sin^2 A$

=> Simplifying xy: $(\sin^2 A / \cos^2 A) - \sin^2 A = \sin^2 A (1/\cos^2 A - 1) = \sin^2 A (\sec^2 A - 1)$

=> $xy = \sin^2 A \tan^2 A$

=> Taking square root: $\sqrt{xy} = \sin A \tan A$

=> Substituting back: $x^2 - y^2 = 4(\sin A \tan A) = 4\sqrt{xy}$

By comparing the simplified terms, we find that the expression is equal to $4\sqrt{xy}$, which corresponds to Option (2).

Therefore The correct answer is $4\sqrt{xy}$.

Additional Information

Trigonometric Product-Difference Identity

The identity $\tan^2\theta - \sin^2\theta = \tan^2\theta \times \sin^2\theta$ is a specific property used to convert trigonometric differences into products.

Algebraic Identity

The difference of squares formula $(a + b)(a - b) = a^2 - b^2$ is fundamental in simplifying expressions involving sum and difference of the same terms.

Pythagorean Relation

The relationship $\sec^2\theta - \tan^2\theta = 1$ is derived from $\sin^2\theta + \cos^2\theta = 1$ by dividing the entire equation by $\cos^2\theta$.

Q59. Answer: (c) 12 years

Shortcut Trick

Current Sum of Ages = Sum 5 years ago + (2 × 5 years) = 39 + 10 = 49 years.

The Age Difference remains constant at 25 years.
Age of the younger person (Me) = (Sum − Difference) ÷ 2
My present age = (49 − 25) ÷ 2 = 24 ÷ 2 = 12 years.
Therefore The correct answer is 12 years.
Alternate Method
Given:
Father is 25 years older than me.
Sum of ages 5 years ago = 39 years.
Let my present age be x years.
Then, father's present age = (x + 25) years.
=> Age of me 5 years ago = (x − 5)
=> Age of father 5 years ago = (x + 25 − 5) = (x + 20)
=> (x − 5) + (x + 20) = 39
=> 2x + 15 = 39
=> 2x = 39 − 15
=> 2x = 24
=> x = 12
Therefore The correct answer is 12 years.
Additional Information
Age Difference Property
The difference between the ages of two persons remains constant at any point in time (past, present, or future).
Sum of Ages Shift
If the sum of ages of 'n' persons is 'S' today, then 'k' years ago, the sum was S − (n × k).
Ratio Method
For age problems involving ratios, always assume a common variable 'x' (e.g., 3x and 4x) to maintain the proportion during calculations.

Q60. Answer: (b) 21%

Given:
Marked price of a table lamp = Rs. 2165
Selling price during the festive season = Rs. 1710.35
Formula used:
Percentage Discount = ((Marked Price - Selling Price))/(Marked Price) × 100
Calculations:
Discount = 2165 - 1710.35
=> Discount = 454.65
Percentage Discount = (454.65)/(2165) × 100
=> Percentage Discount = 0.21 × 100
=> Percentage Discount = 21%
Therefore The percentage discount offered is 21%.

Q61. Answer: (c) 26.5%

Given:
The price of a commodity is increased by 36%.
Formula used:
New Price × New Consumption = Old Price × Old Consumption
Calculation:
Let the original price be P and the original consumption be C.
New Price = 1.36P
Let the new consumption be C'.
Since the expenditure remains the same:
=> 1.36P × C' = P × C

YourMockTest.com — Free Study Material

=> C' = (P × C) / (1.36P)
=> C' = C / 1.36
Percentage decrease in consumption = ((C - C') / C) × 100
=> Percentage decrease in consumption = (1 - 1 / 1.36) × 100
=> Percentage decrease in consumption = (1 - 0.7353) × 100
=> Percentage decrease in consumption ≈ 26.5%
Therefore The correct answer is option (3).

Q62. Answer: (a) Passenger vehicles

Given:
Two-wheelers sales in 2012 = 13.4 million
Two-wheelers sales in 2013 = 13.8 million
Passenger vehicles sales in 2012 = 2.6 million
Passenger vehicles sales in 2013 = 2.7 million
Commercial vehicles sales in 2012 = 0.8 million
Commercial vehicles sales in 2013 = 0.79 million
Formula used:
Percentage increase = (Sales in 2013 - Sales in 2012)/(Sales in 2012) × 100
Calculations:
For Two-wheelers:
=> (13.8 - 13.4)/13.4 × 100 = 2.99%
For Passenger vehicles:
=> (2.7 - 2.6)/2.6 × 100 = 3.85%
For Commercial vehicles:
=> (0.79 - 0.8)/0.8 × 100 = -1.25%
Therefore The maximum percentage increase in sales in 2013 was for Passenger vehicles (3.85%).

Q63. Answer: (b) 4.5

Given:
In ΔABC, D and E are points on sides AB and AC, such that DE||BC.
AD = x
DB = x - 3
AE = x + 3
EC = x - 2
Formula used:
By the Basic Proportionality Theorem (Thales' theorem):
If a line is drawn parallel to one side of a triangle to intersect the other two sides, then it divides those sides in the same ratio.
Calculation:
(AD)/(DB) = (AE)/(EC)
Substitute the given values:
(x)/(x - 3) = (x + 3)/(x - 2)
=> x(x - 2) = (x - 3)(x + 3)
=> $x^2 - 2x = x^2 - 9$
Eliminate x^2 from both sides:
=> -2x = -9
Divide both sides by -2:
=> x = 9/2
=> x = 4.5
Therefore The value of x is 4.5.

Q64. Answer: (c) 90

Given:
Radius of the circle = 24 units.

Arc length = 7.5 units.
Formula used:
Area of sector = (Arc length × Radius) / 2
Calculation:
=> Area of sector = (7.5 × 24) / 2
=> Area of sector = 180 / 2
=> Area of sector = 90 square units
Therefore The correct answer is option (3).

Q65. Answer: (d) Rs. 700

Given:
Principal (P) = Rs. 5,000
Time (T) = 14 months = 14/12 years = 7/6 years
Rate of interest (R) = 12% per annum
Formula used:
Simple Interest (SI) = (P × R × T) / 100
Calculation:
SI = (Rs. 5,000 × 12 × 7/6) / 100
=> SI = (Rs. 5,000 × 12 × 7) / (6 × 100)
=> SI = (Rs. 5,000 × 2 × 7) / 100
=> SI = (Rs. 5,000 × 14) / 100
=> SI = Rs. 70,000 / 100
=> SI = Rs. 700
Therefore The simple interest earned is Rs. 700.

Q66. Answer: (a) 40

Given:
Institute A enrollments:
2015 = 150 students
2017 = 350 students
Institute B enrollments:
2016 = 160 students
2018 = 50 students
2019 = 250 students
Formula used:
Difference = (A enrollments in 2015 + 2017) - (B enrollments in 2016 + 2018 + 2019)
Calculations:
Enrollments in Institute A (2015 and 2017):
=> 150 + 350 = 500 students
Enrollments in Institute B (2016, 2018, and 2019):
=> 160 + 50 + 250 = 460 students
Difference:
=> 500 - 460 = 40 students
Therefore The difference is 40 students.

Q67. Answer: (c) 3(1/13) days

Given:
Time taken by X to do the work = 24 days.
Time taken by Y to do the work = 5 days.
Time taken by Z to do the work = 12 days.
Formula used:
Work rate = 1 / Time taken
Combined work rate = Work rate of X + Work rate of Y + Work rate of Z

YourMockTest.com — Free Study Material

Time taken when working together = 1 / Combined work rate
Calculation:
Work rate of X = 1 / 24
Work rate of Y = 1 / 5
Work rate of Z = 1 / 12
Combined work rate = (1 / 24) + (1 / 5) + (1 / 12)
To add the fractions, find the LCM of 24, 5, and 12, which is 120.
=> Combined work rate = (5 / 120) + (24 / 120) + (10 / 120)
=> Combined work rate = (5 + 24 + 10) / 120
=> Combined work rate = 39 / 120
Time taken when working together = 1 / (39 / 120)
=> Time taken when working together = 120 / 39
=> Time taken when working together = 3(1/13) days
Therefore The correct answer is option 3.

Q68. Answer: (c) 2

Given:
Maths maximum marks = 150
Raw score in Maths = 135
Formula used:
Raw score = (Percentage × Maximum marks) ÷ 100
Calculations:
For a raw score of 135 in Maths:
=> (Percentage × 150) ÷ 100 = 135
=> Percentage = (135 × 100) ÷ 150 = 90%
We need to check how many students scored 90% in Maths.
From the table, students who scored 90% in Maths are:
Ayush (90%)
Sajal (90%)
Therefore Two students secured a raw score of 135 in Maths.

Q69. Answer: (d) 77.78%

Given:
College A: Enrolled = 800, Placed = 625
College C: Enrolled = 425, Placed = 325
College F: Enrolled = 350, Placed = 275
Formula used:
Percentage of placed students = (Placed students)/(Total enrolled students) × 100
Calculations:
Total enrolled students in A, C, and F = 800 + 425 + 350 = 1575
Total placed students in A, C, and F = 625 + 325 + 275 = 1225
Percentage of placed students = 1225/1575 × 100
=> Percentage = 77.78\%\
Therefore The percentage of students placed in colleges A, C, and F is 77.78%.

Q70. Answer: (c) 313

Given:
15/8+[{4/5 of 5/12÷ (11/15)}× 17/12]
Formula used:
Mixed fraction: ab/c = (ac+b)/c
Calculations:
Step 1: Simplify 11/15 = 16/15
Step 2: 4/5 of 5/12 ÷ 16/15 = 4/5 × 5/12 × 15/16 = (4 × 5 × 15)/(5 × 12 × 16) = 300/960 = 5/16

Step 3: 5/16 × 17/12 = 5/16 × 19/12 = 95/192

Step 4: Add 15/8 + 95/192 = 360/192 + 95/192 = 455/192

Step 5: 455/192 is in its simplest form, where a = 455 and b = 192.

Step 6: Calculate 4b - a = 4 × 192 - 455 = 768 - 455 = 313

Therefore The value of 4b - a is 313.

Q71. Answer: (a) 30

Shortcut Trick

In any triangle, the median (the line joining a vertex to the mid-point of the opposite side) bisects the area of the triangle into two equal parts.

Since L is the mid-point of BC, AL is the median of ΔABC.

Therefore Area of ΔABC = 2 × Area of ΔABL

=> Area of ΔABC = 2 × 15 = 30 cm².

Therefore The correct answer is 30 cm².

Alternate Method

Given: Area of ΔABL = 15 cm² and L is the mid-point of side BC.

Formula Used: Area of a triangle = (1/2) × base × height. Triangles with the same height have areas proportional to their bases.

Calculations:

=> Both ΔABL and ΔALC share the same altitude from vertex A to the line BC.

=> Area(ΔABL) / Area(ΔALC) = Base(BL) / Base(LC)

=> Since L is the mid-point, BL = LC, which means Base(BL) / Base(LC) = 1.

=> Area(ΔALC) = Area(ΔABL) = 15 cm²

=> Area(ΔABC) = Area(ΔABL) + Area(ΔALC)

=> Area(ΔABC) = 15 + 15 = 30 cm²

Therefore The correct answer is 30 cm².

Additional Information

Centroid Property

The three medians of a triangle intersect at the centroid, dividing the triangle into 6 smaller triangles of equal area.

Area and Base Ratio

If a point D divides the base BC in the ratio m:n, then Area(ΔABD) : Area(ΔADC) = m : n.

Apollonius Theorem

In ΔABC with median AL, the sum of the squares of two sides is: $AB^2 + AC^2 = 2(AL^2 + BL^2)$.

Q72. Answer: (d) 10000

Given:

10% of 24% of x is 240

Formula used:

10% of 24% of x = 240

Calculation:

10% of 24% of x = 240

10% = 10/100 = 0.1

24% = 24/100 = 0.24

10% of 24% of x = 0.1 × 0.24 × x

=> 0.1 × 0.24 × x = 240

=> 0.024 × x = 240

=> x = 240 / 0.024

=> x = 10000

Therefore The correct answer is option (4).

Q73. Answer: (c) 2

Given:

Diameter of cylindrical candle = 14 cm

Height of cylindrical candle = 2 cm

Dimensions of cuboid candle = 7 cm × 11 cm × 2 cm
Formula used:
Volume of cylinder = $\pi r^2 h$
Volume of cuboid = l × b × h
Number of cuboidal candles = Volume of cylinder / Volume of cuboid
Calculations:
Radius of cylinder (r) = 14 ÷ 2 = 7 cm
Volume of cylinder = $\pi \times 7^2 \times 2 = 22/7 \times 49 \times 2 = 308\ cm^3$
Volume of cuboid = $7 \times 11 \times 2 = 154\ cm^3$
=> Number of cuboidal candles = 308 ÷ 154
=> Number of cuboidal candles = 2
Therefore 2 cuboidal candles can be obtained.

Q74. Answer: (b) 2√(58)

Shortcut Trick
Height (h) of the triangle with base 42 cm = (2 × Area) ÷ Base = (2 × 294) ÷ 42 = 14 cm.
In right ΔABD (where D is the projection of B on base line AC), AD = $\sqrt{(50^2 - 14^2)} = \sqrt{(2500 - 196)} = 48$ cm.
Since the triangle is obtuse and AB is the longest side, vertex C lies between A and D.
Distance CD = AD − AC = 48 − 42 = 6 cm.
Third side BC = $\sqrt{(BD^2 + CD^2)} = \sqrt{(14^2 + 6^2)} = \sqrt{(196 + 36)} = \sqrt{232} = 2\sqrt{58}$ cm.
Therefore The correct answer is $2\sqrt{58}$ cm.
Alternate Method
Given:
Longest side (c) = AB = 50 cm
Side (b) = AC = 42 cm
Area = 294 cm^2
Formula Used:
Area of triangle = 1/2 × base × height
Pythagoras Theorem: $Side^2 = Height^2 + Base^2$
A
C
B
D
42 cm
50 cm
h = 14
6
Obtuse Triangle ABC
Calculations:
=> Let AC be the base. Area = 1/2 × AC × h
=> 294 = 1/2 × 42 × h
=> h = 294 ÷ 21 = 14 cm (Height BD)
=> In right-angled ΔABD, $AD^2 + BD^2 = AB^2$
=> $AD^2 + 14^2 = 50^2$
=> $AD^2 = 2500 - 196 = 2304$
=> AD = $\sqrt{2304} = 48$ cm
=> Since ΔABC is obtuse at C, D lies outside AC. CD = AD − AC
=> CD = 48 − 42 = 6 cm
=> In right-angled ΔBCD, $BC^2 = BD^2 + CD^2$
=> $BC^2 = 14^2 + 6^2 = 196 + 36 = 232$
=> BC = $\sqrt{232} = \sqrt{(4 \times 58)} = 2\sqrt{58}$ cm
Therefore The correct answer is $2\sqrt{58}$ cm.

Additional Information

Obtuse Triangle Condition

For a triangle with sides a, b, and longest side c, it is obtuse if $c^2 > a^2 + b^2$.

Area of Triangle (Heron's Formula)

Area = $\sqrt{(s(s-a)(s-b)(s-c))}$, where $s = (a+b+c)/2$ is the semi-perimeter.

Cosine Rule

For any triangle, $c^2 = a^2 + b^2 - 2ab\cos(C)$. If $C > 90°$, $\cos(C)$ is negative, making $c^2 > a^2 + b^2$.

Q75. Answer: (b) 299

Given:

The average of 50 numbers = 23.

Each number is multiplied by 13.

Formula used:

New average = Old average × Multiplier

Calculation:

Old average = 23

Multiplier = 13

=> New average = 23 × 13

=> New average = 299

Therefore The new average is 299.

Q76. Answer: (b) it was expected that the citizens of the country would perform their duties willingly

The correct answer is it was expected that the citizens of the country would perform their duties willingly

Key Points

• The original Constitution of India did not mention any fundamental duty because it was expected that the citizens of the country would perform their duties willingly.

• Fundamental Duties were later added by the 42nd Amendment Act in 1976 on the recommendations of the Swaran Singh Committee.

• These duties are enshrined in Part IV-A of the Constitution under Article 51A.

• The duties emphasize the moral obligations of all citizens to help promote a spirit of patriotism and to uphold the unity of India.

• Unlike Fundamental Rights, Fundamental Duties are non-justiciable, meaning they are not enforceable by the courts for their violation.

Additional Information

• The Constitution of India was adopted by the Constituent Assembly on 26th November 1949 and came into effect on 26th January 1950.

• It lays down the framework defining fundamental political principles, establishes the structure, procedures, powers, and duties of government institutions, and sets out fundamental rights, directive principles, and the duties of citizens.

• The Constitution of India is the longest written constitution of any country in the world.

• It declares India a sovereign, socialist, secular, and democratic republic, assuring its citizens justice, equality, and liberty, and endeavors to promote fraternity.

• The Seventh Schedule of the Constitution contains three lists which delineate the subjects under the Union, State, and Concurrent lists.

• Amendments to the Constitution can be made through a process outlined in Article 368.

• The Union List has been amended several times to meet the evolving needs of the nation.

Q77. Answer: (b) Press F1

The correct answer is Press F1

Key Points

• Press F1 is the fastest way to open the Help window in Microsoft Word.

• The F1 key is a common standard across many software applications to bring up the help documentation or support window.

• Using keyboard shortcuts like F1 can improve productivity and efficiency when working with software applications.

• Other methods to access help may involve more steps or require navigating through menus, making F1 the quickest option.

Additional Information

• Microsoft Word is a widely used word processing application developed by Microsoft as part of the Microsoft Office suite.

YourMockTest.com — Free Study Material

• It offers a variety of features for creating, editing, formatting, and sharing documents.
• Knowing keyboard shortcuts can significantly enhance the user experience and streamline workflows.
• Aside from F1 for help, other useful shortcuts include Ctrl+C for copy, Ctrl+V for paste, and Ctrl+Z for undo.

Q78. Answer: (c) Walther Flemming

The correct answer is Walther Flemming

Key Points

• Walther Flemming was the first person to conduct a systematic study of chromosomes during cell division.
• He coined the term mitosis to describe the process of cell division.
• Flemming's work laid the foundation for the field of cytogenetics, which studies the structure and function of chromosomes.
• His meticulous observations and detailed drawings of dividing cells provided critical insights into the mechanisms of heredity and cell reproduction.

Additional Information

• Antonie van Leeuwenhoek is known for his pioneering work in microscopy and for being the first to observe and describe microorganisms.
• Thomas Hunt Morgan was a geneticist who won the Nobel Prize for his work on the role of chromosomes in heredity.
• Friedrich Miescher is credited with the discovery of nucleic acids, which he initially called "nuclein."
• Mitosis is a critical process for growth, development, and tissue repair in multicellular organisms.
• Understanding mitosis has significant implications for cancer research, as uncontrolled cell division is a hallmark of cancer.

Q79. Answer: (b) Maharashtra

The correct answer is Maharashtra

Key Points

• Maharashtra has the largest Buddhist population according to the Census of India 2011.
• Buddhism in Maharashtra has a significant presence due to the mass conversion of Dalits to Buddhism led by Dr. B.R. Ambedkar in 1956.
• The state is home to numerous Buddhist sites and monuments, including the famous Ajanta and Ellora caves.
• The Buddhist population in Maharashtra forms a considerable percentage of the total Buddhist population in India.

Additional Information

• Buddhism is a religion and dharma that encompasses a variety of traditions, beliefs, and spiritual practices largely based on teachings attributed to the Buddha.
• The Census of India 2011 is the 15th Indian Census and provides detailed information about the demographic profile of India's population.
• Dr. B.R. Ambedkar, a social reformer and the chief architect of the Indian Constitution, converted to Buddhism along with his followers, which significantly boosted the Buddhist population in Maharashtra.
• The state government of Maharashtra has undertaken various initiatives to preserve and promote Buddhist heritage and culture.
• Maharashtra's Buddhist community actively participates in festivals like Buddha Purnima and Ambedkar Jayanti.

Q80. Answer: (d) Patkai Bum Hills

The correct answer is Patkai Bum Hills

Key Points

• Patkai Bum Hills are located in the easternmost part of India, along the India-Myanmar border.
• The hills are part of a mountain range that extends from Arunachal Pradesh in India to Myanmar.
• The region is known for its rich biodiversity and dense forests.
• The Patkai range is also referred to as the Purvanchal Hills in India.

Additional Information

• Jaintia Hills, Garo Hills, and Khasi Hills are located in the state of Meghalaya in northeastern India.
• The Jaintia Hills are known for their limestone caves and are located to the east of the Khasi Hills.
• The Garo Hills are located in western Meghalaya and are known for their scenic beauty and tribal culture.
• The Khasi Hills are located in central Meghalaya and are known for their rich cultural heritage and matrilineal society.
• The Patkai Bum Hills are significant for their strategic location and ecological importance.

YourMockTest.com — Free Study Material

Q81. Answer: (c) Mahendra Singh Dhoni

The correct answer is Mahendra Singh Dhoni

Key Points

• Mahendra Singh Dhoni captained India to victory in the 2011 Cricket World Cup final against Sri Lanka.

• The final match was held at the Wankhede Stadium in Mumbai on April 2, 2011.

• India won the match by six wickets, chasing down Sri Lanka's target of 275 runs.

• Dhoni played a crucial role in the victory, scoring an unbeaten 91 runs and hitting the winning six.

• This victory marked India's second Cricket World Cup win, the first being in 1983.

Additional Information

• Mahendra Singh Dhoni, commonly known as MS Dhoni, is one of the most successful captains in Indian cricket history.

• Under his captaincy, India also won the ICC T20 World Cup in 2007 and the ICC Champions Trophy in 2013.

• Dhoni is known for his calm demeanor, strategic acumen, and finishing abilities in high-pressure situations.

• He received numerous accolades for his captaincy and contributions to Indian cricket, including the Padma Shri and Padma Bhushan awards.

• Dhoni announced his retirement from international cricket on August 15, 2020.

Q82. Answer: (d) a, b, c

The correct answer is a, b, c

Key Points

• Saila dance is performed by a group comprising of male performers.

• The dance involves the use of bamboo sticks.

• It is performed after the cutting of crops.

Additional Information

• Saila dance is a traditional folk dance from the Indian state of Chhattisgarh.

• It is also known as the Stick Dance due to the use of bamboo sticks during the performance.

• The dance is typically performed by young boys and men to celebrate post-harvest festivities.

• The rhythmic clashing of the sticks and coordinated movements are key features of the dance.

Q83. Answer: (c) Tax reforms

The correct answer is Tax reforms

Key Points

• Tax reforms are crucial measures that can help the government reduce revenue deficits.

• By implementing effective tax reforms, the government can increase its revenue without necessarily increasing tax rates.

• Tax reforms can include broadening the tax base, improving tax compliance, and reducing tax evasion.

• Improved tax administration and the introduction of modern technology in tax collection processes can also contribute significantly to reducing revenue deficits.

Additional Information

• Offering freebies and increasing subsidies may lead to higher government expenditure, potentially worsening the revenue deficit.

• Increasing money supply can lead to inflationary pressures and is not a sustainable solution for revenue deficits.

• Effective tax reforms can make the tax system more efficient and equitable, thus boosting government revenue without imposing undue burdens on taxpayers.

• Governments around the world have successfully reduced revenue deficits through comprehensive tax reforms.

Q84. Answer: (a) Reginald Dyer

The correct answer is Reginald Dyer

Key Points

• Reginald Dyer is remembered as the Butcher of Amritsar for his role in the Jallianwala Bagh massacre in 1919.

• The massacre took place on April 13, 1919, when Dyer ordered his troops to fire on a peaceful gathering of men, women, and children.

• Hundreds of people were killed and many more were injured in this tragic event.

• The massacre was a turning point in India's struggle for independence and significantly contributed to the rise of the Indian independence movement.

• Dyer's actions were widely condemned both in India and internationally, leading to his eventual removal from duty.

Additional Information

YourMockTest.com — Free Study Material

• The Jallianwala Bagh massacre is considered one of the most brutal acts of colonial repression in India.

• The event galvanized Indian leaders and the public to demand greater self-governance and ultimately complete independence from British rule.

• It led to the non-cooperation movement led by Mahatma Gandhi, which was a significant step towards India's independence.

• In 2019, the British government expressed "deep regret" over the massacre, although it stopped short of a formal apology.

• The Jallianwala Bagh site in Amritsar is now a national memorial and a symbol of the sacrifices made in the fight for Indian independence.

Q85. Answer: (a) Max

The correct answer is Max

Key Points

• Max is the function used to calculate the maximum value in a selected column in MS Excel.

• The Max function returns the largest value from a set of values.

• It is commonly used in data analysis to determine the highest value in a dataset.

• The function syntax is =MAX(number1, [number2], ...), where number1, number2, etc., are the values or range of cells you want to evaluate.

Additional Information

• MS Excel is a spreadsheet program included in the Microsoft Office suite of applications.

• It allows users to organize, format, and calculate data with formulas using a spreadsheet system broken up by rows and columns.

• Excel is widely used for financial and statistical analysis, data visualization, and complex calculations.

• Other common functions in Excel include SUM, AVERAGE, MIN, and IF.

• Advanced users can leverage features like PivotTables, VLOOKUP, and macros to automate tasks and analyze large datasets efficiently.

Q86. Answer: (c) knockdown

The correct answer is knockdown

Key Points

• Knockdown occurs when a horse or rider lowers an element of a jump that establishes the height of an obstacle in equestrian sports.

• This typically results in penalties for the rider, affecting their overall score in the competition.

• A knockdown is often caused by the horse's legs hitting the jump or the rider's mistakes in guiding the horse over the obstacle.

• It is a common term used in show jumping and other equestrian events involving jumps.

Additional Information

• Equestrian sports include a variety of disciplines such as show jumping, dressage, eventing, and more.

• In show jumping, riders and their horses are required to jump a series of obstacles within a set time.

• Penalties are given for faults such as knockdowns, refusals, and exceeding the time limit.

• The goal is to complete the course with the fewest penalties and the fastest time.

• Proper training and understanding between the rider and horse are crucial for success in these events.

Q87. Answer: (b) bouncer

The correct answer is bouncer

Key Points

• A bouncer is a type of fast, short-pitched delivery in cricket that reaches the batsman at head height.

• This delivery is used primarily by fast bowlers to intimidate the batsman or to induce a mistake.

• The bouncer is a strategic delivery aimed at disrupting the batsman's concentration and forcing them into a defensive position.

• It can be a potent weapon in the bowler's arsenal when used effectively.

Additional Information

• Grubber: A delivery that stays very low after bouncing.

• Duck: A term used when a batsman gets out without scoring any runs.

• Leg-bye: Runs scored when the ball hits the batsman's body without hitting the bat.

• In cricket, various types of deliveries and terms are used to describe different aspects of the game, each having its own significance and strategic importance.

YourMockTest.com — Free Study Material

Q88. Answer: (c) 1867

The correct answer is 1867

Key Points

• The Press and Registration of Books (PRB) Act was enacted in the year 1867.

• The Act regulates the printing presses and newspapers and makes registration with an appointed authority compulsory for all printing presses.

• It aims to ensure that the government can keep track of the publications and the publishers in the country.

• The Act has provisions to penalize non-compliance and ensure that the printed material adheres to certain standards and does not incite violence or hatred.

Additional Information

• The PRB Act is one of the oldest regulations in India, reflecting the colonial government's concern with controlling the press.

• Over the years, several amendments have been made to the Act to address the changing dynamics of the publishing industry and the rise of digital media.

• The Act continues to be relevant today, although there are calls for its modernization to better suit the current media landscape.

Q89. Answer: (c) Anand Math

The correct answer is Anand Math

Key Points

• The national song of India, "Vande Mataram," is taken from the book Anand Math.

• Anand Math is a Bengali novel written by Bankim Chandra Chatterjee.

• The song "Vande Mataram" was written in Sanskrit and Bengali.

• It played a vital role in the Indian independence movement and was first sung by Rabindranath Tagore in 1896.

• The novel Anand Math was published in 1882 and is set in the background of the Sannyasi Rebellion in the late 18th century.

Additional Information

• The national song status was conferred on "Vande Mataram" by the Constituent Assembly of India on 24 January 1950.

• Bankim Chandra Chatterjee was one of the earliest graduates of the University of Calcutta and a prominent figure in the literary renaissance of Bengal.

• The song is known for its patriotic fervor and has been a source of inspiration for many freedom fighters.

• It consists of six stanzas, but usually, only the first two are sung during official events.

• The song's lyrics praise the motherland and evoke a sense of devotion and pride among the citizens of India.

Q90. Answer: (c) Bikaner

The correct answer is Bikaner

Key Points

• The camel festival is organized every year in February by the Rajasthan Tourism Development Corporation.

• This festival takes place in Bikaner, Rajasthan.

• The festival includes various events such as camel races, camel dances, and other cultural performances.

• Bikaner, known for its historical importance and cultural heritage, becomes a hub of activities during the festival.

Additional Information

• The Camel Festival in Bikaner is a significant event that attracts tourists from all over the world.

• Rajasthan is known for its rich culture, and festivals like these showcase the traditional lifestyle of the region.

• Bikaner is also famous for its forts, palaces, and temples, adding to the attraction for visitors during the festival.

Q91. Answer: (b) Benzene

The correct answer is Benzene

Key Points

• Anthracene is a polycyclic aromatic hydrocarbon.

• It is non-polar in nature.

• According to the principle of "like dissolves like", non-polar solutes dissolve well in non-polar solvents.

• Benzene is a non-polar solvent.

• Therefore, anthracene would dissolve easily in benzene.

Additional Information

• Water is a polar solvent and would not dissolve non-polar substances like anthracene well.

YourMockTest.com — Free Study Material

• Methane is a gas at room temperature and is not used as a solvent for dissolving solids.
• Sodium chloride is an ionic compound and would not dissolve non-polar substances like anthracene.
• Choosing the appropriate solvent is crucial in chemical processes and experiments to ensure proper dissolution and reaction.

Q92. Answer: (a) Mallikarjun Mansur

The correct answer is Mallikarjun Mansur

Key Points

• Mallikarjun Mansur is a renowned figure in Hindustani classical music.
• He was known for his unique style and contribution to the Jaipur-Atrauli gharana of Hindustani classical music.
• His renditions of ragas and his innovative approach to music have left a lasting legacy.

Additional Information

• Aruna Sairam is a prominent Carnatic vocalist, not associated with Hindustani classical music.
• Srinavasa Iyer and Ramanuj Iyengar are also known for their contributions to Carnatic music.
• Hindustani classical music and Carnatic music are the two main traditions of Indian classical music, with distinct styles and origins.
• Mallikarjun Mansur has received numerous awards, including the Padma Vibhushan, for his contributions to Indian classical music.

Q93. Answer: (b) 10%

The correct answer is 10%

Key Points

• The Uttarakhand government approved a 10% horizontal reservation for statehood activists in state government jobs in March 2023.
• This reservation is aimed at recognizing and rewarding the contributions of those who were involved in the movement for Uttarakhand's statehood.
• Horizontal reservation is a category of reservation that cuts across all vertical reservations like SC, ST, OBC, etc., and is provided to specific groups such as women, differently-abled persons, and in this case, statehood activists.
• This initiative is part of the state government's efforts to honor the sacrifices and contributions of the statehood activists.

Additional Information

• The state of Uttarakhand was formed on 9th November 2000, becoming the 27th state of the Republic of India.
• The movement for statehood was marked by various protests and agitations, particularly in the 1990s, demanding a separate state to address the distinct socio-cultural and economic issues of the region.
• Horizontal reservations ensure that the benefits of reservation are extended to specific groups across all categories, enhancing inclusivity and representation.
• The decision to provide reservation to statehood activists reflects the government's commitment to acknowledging historical contributions and promoting social justice.

Q94. Answer: (a) Lakshadweep

The correct answer is Lakshadweep

Key Points

• Lakshadweep recorded the highest female literacy rate among Union Territories in India according to Census 2011.
• The female literacy rate in Lakshadweep was significantly higher compared to other Union Territories.
• Female literacy is a crucial indicator of social development and empowerment.
• Efforts to improve female literacy involve enhancing access to education, providing scholarships, and creating awareness about the importance of education for girls.
• High female literacy rates contribute to better health, economic growth, and social stability.

Additional Information

• Census 2011 provides a comprehensive overview of the demographic, social, and economic status of the population in India.
• The Census data helps in formulating policies and programs aimed at improving literacy and education.
• It also highlights the need for targeted interventions in regions with lower literacy rates.
• Improving female literacy is linked to achieving broader goals of gender equality and women's empowerment.
• Government initiatives such as Beti Bachao Beti Padhao and Sarva Shiksha Abhiyan aim to enhance female literacy rates across the country.

YourMockTest.com — Free Study Material

Q95. Answer: (a) The North star

The correct answer is The North star

Key Points

• Polaris, also known as the North Star, is the star located almost directly above the Earth's North Pole.

• It is part of the constellation Ursa Minor and is the brightest star in this constellation.

• The North Star is a crucial point of navigation in the Northern Hemisphere.

• Unlike other stars, Polaris appears to stay in a fixed position in the sky, making it a reliable point of reference for determining direction.

Additional Information

• Polaris is actually a triple star system, consisting of the main star, Polaris A, and two smaller companions, Polaris B and Polaris Ab.

• The star is approximately 433 light-years away from Earth.

• Due to its alignment with the Earth's rotational axis, Polaris has been used by navigators and explorers for centuries.

• In ancient times, Polaris was not always the Pole Star. The title shifts over millennia due to the precession of the Earth's axis.

Q96. Answer: (a) Alauddin Khilji

The correct answer is Alauddin Khilji

Key Points

• Alauddin Khilji was a prominent ruler of the Delhi Sultanate who reigned from 1296 to 1316.

• He is known for his military conquests and administrative reforms.

• Alauddin Khilji sent his trusted general, Malik Kafur, to lead expeditions to South India.

• Under Malik Kafur's command, the army successfully raided several kingdoms in the Deccan and South India, including the Yadavas, Kakatiyas, and Hoysalas.

• These expeditions were significant as they brought immense wealth to the Delhi Sultanate and expanded its influence to the southern regions of India.

Additional Information

• Ghiyas-ud-din Balban was a ruler of the Delhi Sultanate who focused more on consolidating power in the north rather than expanding southward.

• Qutub-al-din Aibak was the founder of the Delhi Sultanate and laid the foundation for future rulers but did not engage in significant southern expeditions.

• Iltutmish was another significant ruler who consolidated the Sultanate's power in the north and built the administrative framework but did not send expeditions to South India.

• The Delhi Sultanate was a series of dynasties that ruled northern India from the 13th to the 16th centuries, with significant contributions to Indian culture, architecture, and administration.

Q97. Answer: (c) P Chidambaram

The correct answer is P Chidambaram

Key Points

• Chidambaram Subramaniam, MS Swaminathan, and Norman Borlaug are notable figures associated with the Green Revolution.

• Chidambaram Subramaniam played a key role in the introduction and promotion of high-yielding variety seeds and modern agricultural techniques in India.

• MS Swaminathan is known as the "Father of the Green Revolution in India" for his significant contributions to the development and dissemination of high-yielding crop varieties.

• Norman Borlaug was an American agronomist whose work on high-yielding wheat varieties earned him the Nobel Peace Prize and had a global impact on food production.

• P Chidambaram, on the other hand, is a prominent Indian politician and lawyer who has served as the Finance Minister and Home Minister of India, but is not associated with the Green Revolution.

Additional Information

• The Green Revolution refers to a set of research, development, and technology transfer initiatives that took place between the 1940s and the late 1960s, which increased agriculture production worldwide, particularly in developing countries.

• In India, the Green Revolution led to an increase in food grain production, especially in states like Punjab, Haryana, and Uttar Pradesh, transforming India from a food-deficient to a food-surplus country.

• The success of the Green Revolution in India is attributed to the combined efforts of the government, scientists, and farmers, along with international support and collaboration.

YourMockTest.com — Free Study Material

Q98. Answer: (c) Maharashtra and Gujarat

The correct answer is Maharashtra and Gujarat

Key Points

• Maharashtra and Gujarat were the states concentrated in cotton production in the early years to develop the textile industry.

• The favorable climate and soil conditions in these regions made them ideal for cotton cultivation.

• These states were home to some of the earliest and most significant textile mills in India, contributing substantially to the country's textile industry.

• The cities of Mumbai (in Maharashtra) and Ahmedabad (in Gujarat) became major centers for the textile industry.

• These regions continue to play a crucial role in India's textile sector, which is a significant part of the nation's economy.

Additional Information

• The textile industry in India is one of the oldest industries and has a strong presence in the national economy.

• India is one of the largest producers of cotton and cotton yarn in the world.

• The industry provides employment to millions of people, especially in rural areas.

• Textile exports are a significant source of foreign exchange earnings for the country.

• The Indian government has implemented various policies and schemes to support and promote the textile industry.

Q99. Answer: (d) 1976

The correct answer is 1976

Key Points

• The 42nd Constitutional Amendment Act of the Indian Constitution was passed in the year 1976.

• This amendment is also known as the Mini-Constitution due to the extensive changes it brought to the Constitution of India.

• It was enacted during the Emergency period and brought about several significant changes to the Constitution, including the addition of the words "Socialist," "Secular," and "Integrity" to the Preamble.

• The 42nd Amendment also curtailed the power of judicial review and made substantial changes to the legislative and executive powers at both the central and state levels.

Additional Information

• The Constitution of India was adopted by the Constituent Assembly on 26th November 1949 and came into effect on 26th January 1950.

• It lays down the framework defining fundamental political principles, establishes the structure, procedures, powers, and duties of government institutions, and sets out fundamental rights, directive principles, and the duties of citizens.

• The Constitution of India is the longest written constitution of any country in the world.

• It declares India a sovereign, socialist, secular, and democratic republic, assuring its citizens justice, equality, and liberty, and endeavors to promote fraternity.

• The Seventh Schedule of the Constitution contains three lists which delineate the subjects under the Union, State, and Concurrent lists.

• Amendments to the Constitution can be made through a process outlined in Article 368.

• The 42nd Amendment has been a subject of much debate and has had a lasting impact on the Indian political and legal landscape.

Q100. Answer: (c) Delhi

The correct answer is Delhi

Key Points

• Delhi MLAs received an increase of about 66% in salaries and allowances effective from 14 February 2023.

• This increase includes various components such as basic salary, constituency allowance, and communication allowance among others.

• The decision was taken to ensure that the compensation reflects the responsibilities and duties of the MLAs.

• Such increments aim to provide better financial security and encourage dedicated public service.

Additional Information

• Delhi is a Union Territory with a Legislative Assembly.

• The Assembly was established in 1993, and it has the power to legislate on matters except public order, police, and land.

• The Chief Minister of Delhi is the head of the government, and the Lieutenant Governor is the representative of the President of India in Delhi.

• Periodic revisions in the salaries and allowances of MLAs help in maintaining their financial well-being and enabling them to perform their duties efficiently.

YourMockTest.com — Free Study Material

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

YourMockTest.com — Free Study Material