SSC CHSL 2020 Official Paper 23 (Held on: 6 Aug 2021 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2020 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. In the given sentence, identify the segment which contains the grammatical error.

When I was at school I found my class teacher to be the best mentor as she always have time to listen and guide.

(a) I found my class teacher
(b) as she always have time to listen and guide
(c) to be the best mentor
(d) When I was at school

Q2. Select the most appropriate meaning of the given idiom.

Hard nut to crack

(a) someone who solves puzzles easily
(b) a difficult person or problem
(c) a person who likes to joke around
(d) someone who needs guidance

Q3. In the given sentence, identify the segment which contains the grammatical error.

The teacher and her student was engaged in a discussion on the current political crisis.

(a) on the current
(b) in a discussion
(c) was engaged
(d) political crisis

Q4. Select the most appropriate option to fill in the blank.

The migrant crisis led several states to _____ existing labour laws in order to improve their condition.

(a) abandon
(b) introduce
(c) amend
(d) initiate

Q5. Select the most appropriate ANTONYM of the given word.

BEWILDER

(a) enlighten
(b) weaken
(c) confuse
(d) terrify

Q6. Select the correct passive form of the given sentence.

Radha plays the sitar very well.

(a) Radha is playing the sitar very well.
(b) The sitar is being played by Radha very well.

(c) Radha has been playing the sitar very well.
(d) The sitar is played very well by Radha.

Q7. Select the INCORRECTLY spelt word.
(a) accommodate
(b) flapped
(c) referred
(d) noncomital

Q8. Select the most appropriate synonym of the given word.
BONHOMIE
(a) irritation
(b) deceit
(c) companionship
(d) fickleness

Q9. Select the word which means the same as the group of words given.
Something which cannot be taken by force
(a) Impregnable
(b) Irresistible
(c) Impromptu
(d) Imperative

Q10. Given below are four jumbled sentences. Out of the given options, select the one that gives their correct order.
A. How will we ever reach our goal if we don't follow our ideals and principles and follow the path we say we believe in?
B. Many of us believe in God, do our daily prayers and vow to be good.
C. But unfortunately, when it comes to putting our ideas into practice, we procrastinate.
D. There may be variations in our chosen ideals of Him, but each of us believes in Him nevertheless.
(a) BADC
(b) ABCD
(c) BDCA
(d) ACDB

Q11. Select the most appropriate meaning of the given idiom:
know inside out
(a) To know everything by rote memory
(b) To always know a lot about every topic
(c) To know something thoroughly
(d) To know a little about something

Q12. Select the most appropriate synonym of the given word.
FASCINATION
(a) appealing
(b) agreement
(c) dislike
(d) happiness

Q13. Select the most appropriate word to fill in the blank.
Savita was crying _____ as she felt that her world had fallen apart due to the accident.
(a) bitterly
(b) definitely
(c) mildly
(d) hardly

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Q14. Select the most appropriate antonym of the given word.

EQUILIBRIUM

(a) imbalance
(b) stability
(c) coolness
(d) adherence

Q15. Select the INCORRECTLY spelt word.

(a) promotion
(b) applicasion
(c) tradition
(d) completion

Q16. Select the option which means the same as the group of words given.

Not active or growing

(a) inanimate
(b) duplicate
(c) invisible
(d) dormant

Q17. Examine the four jumbled sentences. Out of the given options, pick the one that gives their correct order.

A. Yet few people know the long history of making soap.

B. As a prevention, they recommend the frequent washing of hands for 20 seconds.

C. Scientists have declared that COVID-19 is here to stay.

D. This advice is practical and easy to follow as soap is a common and inexpensive consumer product.

(a) CBDA
(b) CABD
(c) BDAC
(d) ABDC

Q18. Select the option that will improve the underlined segment in the given sentence. In case no improvement is needed, select 'No improvement'

The advertising industry wants us to believe that buy more stuff will make us happier.

(a) No improvement
(b) that buys more
(c) that bought more
(d) that buying more

Q19. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

The miscreants were shifted to another building that same evening and was keeping in custody by the police.

(a) were kept
(b) was kept
(c) No substitution
(d) keeps

Q20. Select the correct indirect form of the given sentence.

"Madam, please watch this program on our folk songs," says Sitab.

(a) Sitab asks Madam have you watched the program on their folk songs.
(b) Sitab said to Madam to watch the program on our folk songs.
(c) Sitab says Madam is watching the program on our folk songs.
(d) Sitab requests Madam to watch that program on their folk songs.

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Directions

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

An appetising and nutritious meal is always recommended because what we eat (1) __ our senses. The effect of food on our mind, body and spirit had been the centre (2) _ discussion even in ancient Greece, when Pythagoras argued in favour of a healthy, vegetarian (3) __. Though at the time when the philosopher lived, in around 500 BC, the term 'vegetarianism' was (4) _, his diet came to be known as 'the Pythagorean diet'. He is known for his theory on geometry, but few are aware of his profound (5) ____ on food habits!

Q21. Select the most appropriate option for blank No. 1.

(a) hurts
(b) enables
(c) affects
(d) creates

Q22. Select the most appropriate option for blank No. 2.

(a) of
(b) on
(c) to
(d) with

Q23. Select the most appropriate option for each blank No. 3.

(a) bread
(b) diet
(c) nourishment
(d) nutrition

Q24. Select the most appropriate option for each blank No. 4.

(a) knowing
(b) unknown
(c) knowledgeable
(d) known

Q25. Select the most appropriate option for each blank No. 5.

(a) wisdom
(b) greatness
(c) development
(d) creation

GENERAL INTELLIGENCE

Q26. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

b a_d a_b b_d_a c b_a d d_c b

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

Q27. Three of the following four words are alike in a certain way and one is different. Select the odd one.

(a) Dog
(b) Tiger
(c) Lion
(d) Cat

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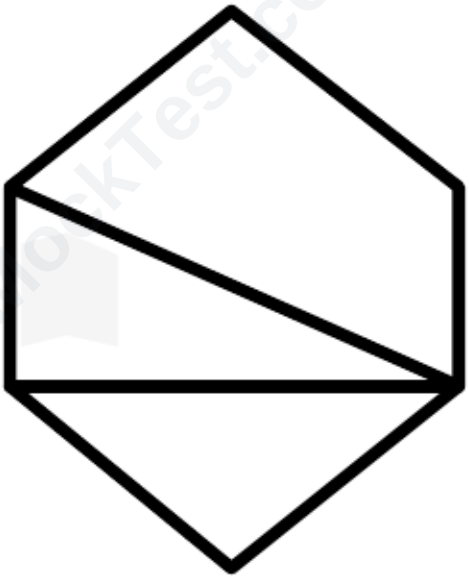
Q28. Four numbers have been given, out of which three are alike in some manner and one is different. Select the number that is different.

(a) 73
(b) 127
(c) 115
(d) 89

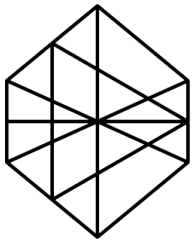
Q29. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

(a) DLRT
(b) HKMR
(c) FMNQ
(d) BJPV

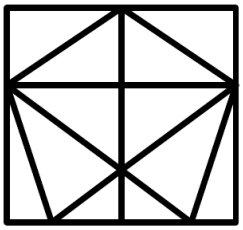
Q30. In which of the following options is the given figure embedded? (rotation is NOT allowed)



(a)

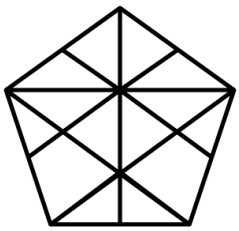


(b)

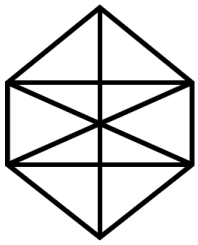


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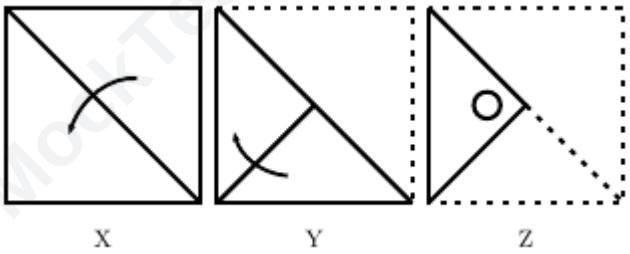
(c)



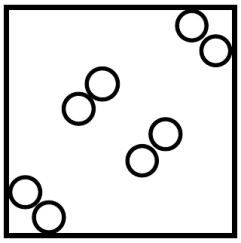
(d)



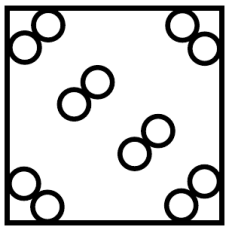
Q31. A paper is folded and cut as shown in the following figures (X, Y and Z). How will it appear when unfolded?



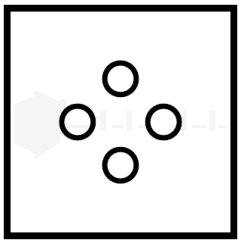
(a)



(b)

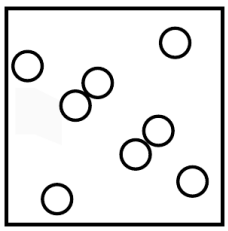


(c)



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(d)



Q32. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(2, 6, 9)

(a) (8, 12, 17)
(b) (5, 15, 30)
(c) (7, 22, 17)
(d) (4, 12, 18)

Q33. In a certain code language, MAKER is coded as 90. How will BROTHER be coded in that language?

(a) 119
(b) 95
(c) 112
(d) 100

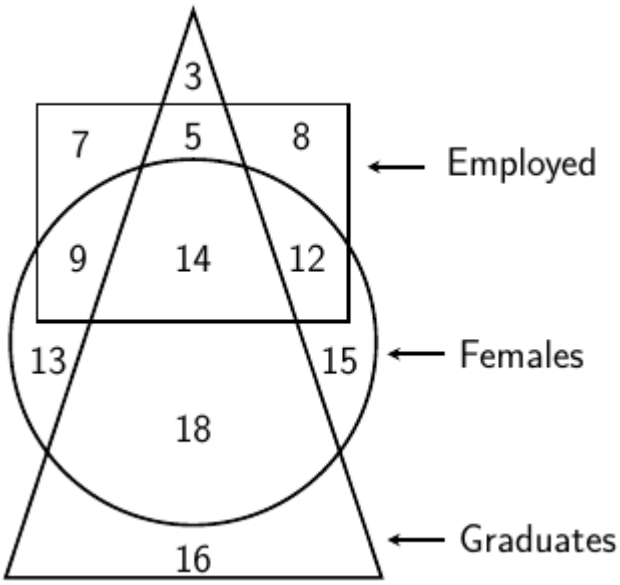
Q34. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

24 : 37

(a) 78 : 87
(b) 63 : 82
(c) 8 : 9
(d) 17 : 28

Q35. In the given diagram, the shapes indicate the categories of persons. The numbers given in the different segments represent the number of persons in that category.

How many females are either graduates or employed but NOT both?



(a) 41
(b) 40
(c) 39
(d) 35

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Q36. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

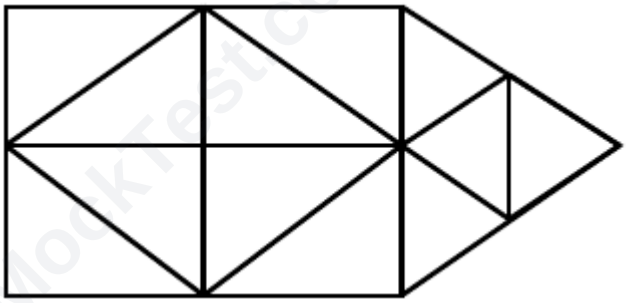
REST : SCTR :: BEST : ?

(a) CCRT
(b) CCTR
(c) CDTR
(d) SBTR

Q37. In a code language, CIRCUS is written as DKUGZY. How will JOKER be written in the same language?

(a) KQNIW
(b) KQMJW
(c) KQUIV
(d) KRNJW

Q38. How many triangles are there in the following figure?



(a) 16
(b) 17
(c) 14
(d) 19

Q39. Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.

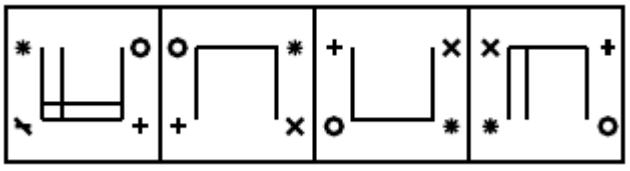
1. Income
2. Employment
3. Superannuation
4. Interview
5. Education
6. Promotion

(a) 3, 6, 1, 4, 2, 5
(b) 3, 4, 2, 1, 6, 5
(c) 5, 1, 4, 2, 6, 3
(d) 5, 4, 2, 1, 6, 3

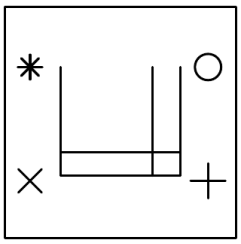
Q40. 'Second' is related to 'Minute' in the same way as 'Day' is related to '_____'.

(a) Dawn
(b) Night
(c) Dusk
(d) Week

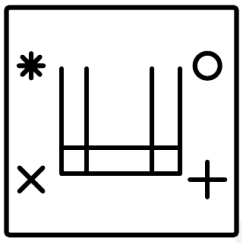
Q41. Select the figure that will come next in the following series.



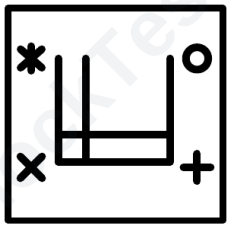
(a)



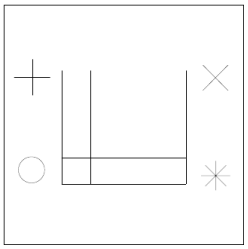
(b)



(c)



(d)



Q42. Select the number that can replace the question mark (?) in the following series.

63, 63, 56, 56, 49, 49, 42, ?

(a) 42
(b) 30
(c) 27
(d) 35

Q43. Select the option in which the words share the same relationship as that shared by the given pair of words.

Purification : Filter

(a) Coloring : House
(b) Selling : Car
(c) Digging : Spade
(d) Walking : Exercise

Q44. Three statements are given, followed by four conclusions numbered I, II, Ill and IV. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows from the statements.

Statements:

All cats are birds.

Some tigers are cats.

All bees are tigers.

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Conclusions:

I. All bees are birds.

II. Some bees are birds.

III. Some birds are tigers.

IV. All tigers are birds.

(a) Only conclusion II follows

(b) Only conclusion IV follows

(c) Only conclusion I follows

(d) Only conclusion III follows

Q45. Select the correct mirror image of the given figure when the minor is placed to the right side of the figure.



(a)



(b)



(c)



(d)



Q46. Select the option in which the numbers are related in the same way as are the numbers of the following set.

{46, 53, 64}

(a) {34, 41, 43}

(b) {56, 64, 66}

(c) {23, 30, 34}

(d) {68, 73, 85}

Q47. Sunita appeared for a test consisting of 260 questions and answered 40% of the first 130 questions correctly. What percentage of the rest 130 questions must she answer correctly so as to score 60% in the entire test?

(a) 75%

(b) 84%

(c) 70%

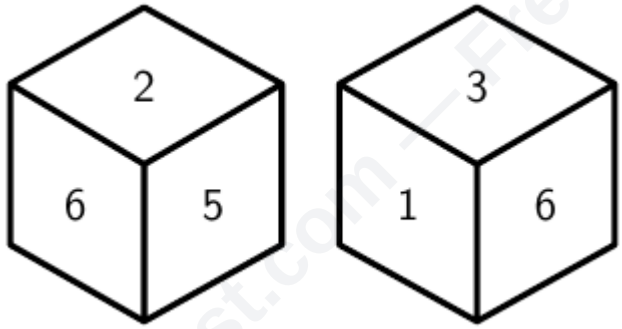
(d) 80%

Q48. If '×' means '-', '÷' means '+', '+' means '×' and '-' means '÷', then what will be the value of the following expression?

16 ÷ 32 - 4 × 2 + 1 = ?

(a) 32
(b) 7.5
(c) 10
(d) 22

Q49. Two different positions of the same dice are shown. Select the number that will be at the top if '1' is at the bottom.



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

Q50. 'U + W' means 'U is the father of W';

'U - W' means 'U is the wife of W';

'U × W' means 'U is the brother of W'; and

'U ÷ W' means 'U is the daughter of W'.

If 'K ÷ L + M + N', then how is K related to N?

(a) Mother
(b) Daughter
(c) Aunt
(d) Sister

QUANTITATIVE APTITUDE

Q51. If $\sin\theta + \text{cosec}\,\theta = 7$, then what is the value of $\sin^3\theta + \text{cosec}^3\theta$?

(a) 382
(b) 350
(c) 322
(d) 367

Q52. If (2a + 3b) (2c - 3d) = (2a - 3b) (2c + 3d), then:

(a) b/a=c/a
(b) a/b=c/d
(c) a/d = c/b
(d) a/b =d/c

Q53. There are 90 students in a hostel. Due to new admissions, 30 new students join the mess and the daily expenses of the mess increases by Rs. 560. while the average expenditure per head diminishes by Rs. 10, What was the original daily expenditure (in Rs.) of the mess?

(a) 3,680
(b) 4,980
(c) 5,280

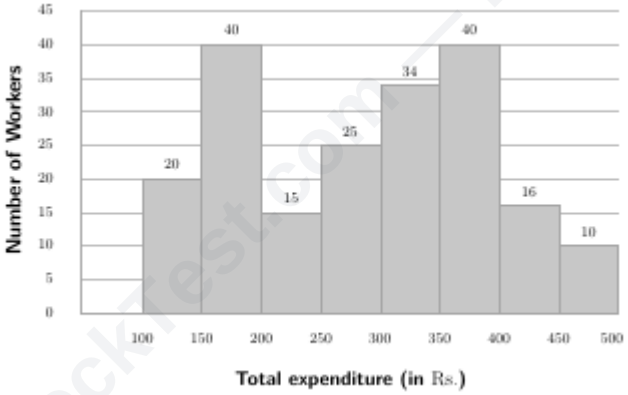
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(d) 4,280

Q54. A train is running at a speed of 99 km/h. If the train is 565 m long, then what will be the time (in seconds) taken by it to cross a 975 m long tunnel?

(a) 54
(b) 40
(c) 42
(d) 56

Q55. The following histogram represents the distribution of total household expenditure (in Rs.) of 200 manual workers in a city.



The number of workers whose total expenditure is Rs. 350 and above is what percentage less than the number of workers whose total expenditure is less than Rs. 250?

(a) 15%
(b) 12%
(c) 10%
(d) 14%

Q56. The angle of elevation of a ladder against a wall is 45°. The length of the ladder is 12 m. What is the distance between the wall and the foot of the ladder?

(a) 6√2 m
(b) 3√2 m
(c) 5√3 m
(d) 4√3 m

Q57. What is the value of x if it is given that

4 {2(3/4 of 24 - 1) + 3 (7÷ x) - 5 × 8 + 1} = 20^2 ?

(a) 0.2
(b) 0.625
(c) 0.4
(d) 0.75

Q58. Points A, B, C and D are concyclic points of a circle with centre O, such that angle DOC = 73°. The measure of angle AOC is 215°. What is the measure of angle AOD?

(a) 145°
(b) 72°
(c) 87°
(d) 273°

Q59. What is the area (in cm^2, correct to one decimal place) of a triangle whose base is 21.4 cm and height is 15.5 cm?

(a) 156.9
(b) 156.6
(c) 165.9

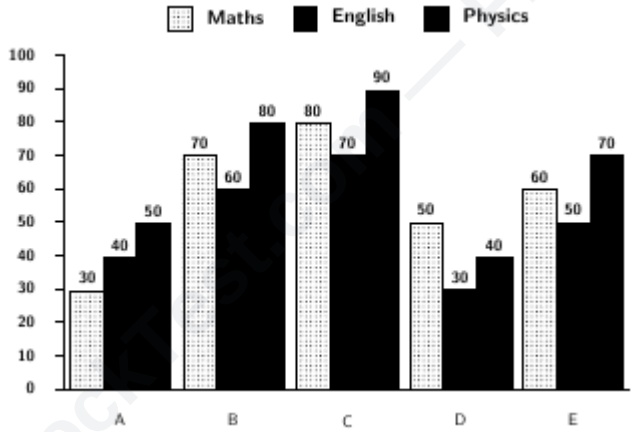
(d) 165.6

Q60. If the nine-digit number 87605x31y is divisible by 72, then the value of 2x - 3y is:

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

Q61. Study the following graph and answer the question that follows.

Marks scored by five students in three subjects (Maths, English, and Physics). Total marks for each subject are 100.



What is the difference between the total marks obtained by B and the total marks obtained by C?

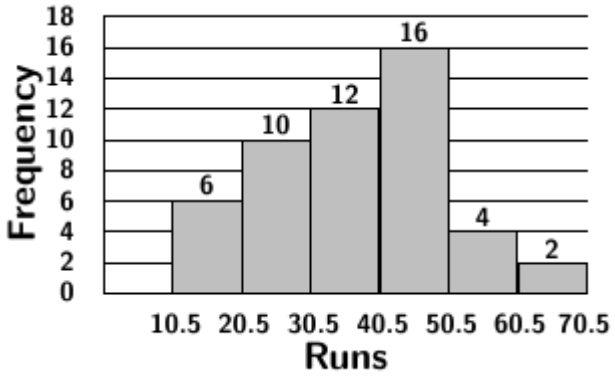
(a) 20
(b) 30
(c) 25
(d) 35

Q62. One side of a rectangular field is 39 m and its diagonal is 89 m. What is the area of the field?

(a) 2100 m²
(b) 2160 m²
(c) 3140 m²
(d) 3120 m²

Q63. The histogram given below presents the frequency distribution of average runs scored by 50 selected players from a district in local cricket tournament.

Study the histogram and answer the question that follows.



How many players scored 30.5 runs or less?

(a) 16
(b) 12
(c) 28
(d) 34

Q64. In a circle with center O, APB is a tangent at P. If MN is a diameter such that angle BPN = 52°, then what is the measure of angle PNM?

(a) 38°
(b) 48°
(c) 90°
(d) 52°

Q65. If a person sells a ceiling fan for Rs. 557.75, then he gets a 15% profit. To get a 20% profit, at what amount should he sell the fan?

(a) Rs. 572
(b) Rs. 589
(c) Rs. 596
(d) Rs. 582

Q66. Two numbers are in the ratio of 9 : 7. If the larger number is 56 more than one-seventh of the smaller, then what is the sum of the two numbers?

(a) 96
(b) 130
(c) 112
(d) 72

Q67. If $(x^2 + 1/(49x^2)) = 155/7$, then what is the value of $(x+1/7x)$?

(a) 7
(b) ± 7
(c) 4
(d) ± 4

Q68. The 12% interest earned on a sum of money of Rs. 2,60,000 is to be used for awarding 24 scholarships of equal value every year in a school. What is the value (in Rs.) of each scholarship?

(a) 1,150
(b) 1,200
(c) 1,250
(d) 1,300

Q69. If $a + b + c = 2$ and $ab + bc + ca = -1$, then the value of $a^3 + b^3 + c^3 - 3abc$ is:

(a) 10
(b) 14
(c) 2
(d) 5

Q70. The base of a triangle is equal to the perimeter of a square whose diagonal is $7\sqrt{2}$ cm and its height is equal to the side of a square whose area is 169 cm^2. The area (in cm^2) of the triangle is:

(a) 175
(b) 156
(c) 130
(d) 182

Q71. A can do a piece of work in 12 days. He worked for 6 days and left, and then B finished it in 10 days. If both work together, then in how many days will they finish the same work?

(a) 7
(b) 9
(c) 9.5
(d) 7.5

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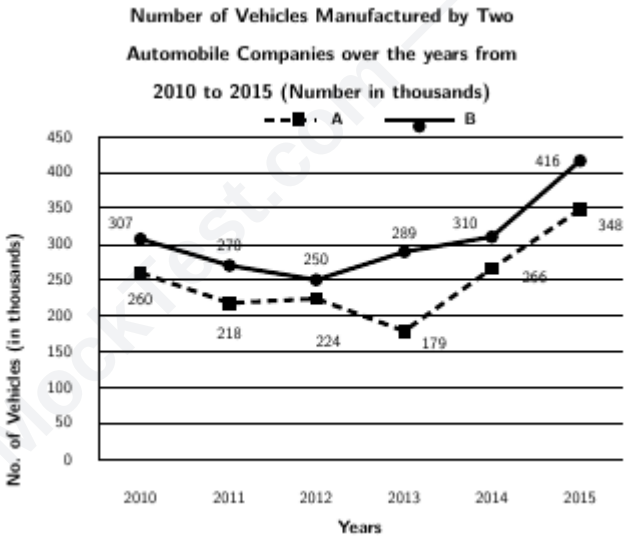
Q72. By selling a pen for Rs. 26, a man lose one-fourteenth of what is costs him. The cost price of the pen is:

(a) Rs. 39
(b) Rs. 27
(c) Rs. 38
(d) Rs. 28

Q73. Study the line graph and answer the question that follows.

The line graph represents the number of vehicles (in thousands) manufactured by two automobile companies A and B over the years from 2010 to 2015. The X-axis represents the years and the Y-axis represents number of vehicles in thousands.

(The data shown here is only for mathematical exercise. They do not represent the actual figures of the country.)



Company B is projecting an increase in the number of vehicles to be manufactured in 2016 by 70% with respect to its average number of vehicles from 2010 to 2015. What should be the approximate percentage increase in the number of vehicles (in thousands) to be manufactured by Company A in 2016 with respect to the number of vehicles in 2015, so that it is at par with Company B?

(a) 45
(b) 42
(c) 57
(d) 50

Q74. A ladder 10 m long rests against a vertical wall making an angle of 30° with the wall. How high up (in m) does it reach the wall from the ground? (Take √3 = 1.73.)

(a) 8.56
(b) 8.65
(c) 5.88
(d) 5

Q75. Two numbers are less than a third number by 37% and 30%, respectively. By what percentage is the second number more than the first?

(a) 100/9
(b) 10/9
(c) 100/3
(d) 10

GENERAL AWARENESS

Q76. With which of the following sports is Indian sportsperson Bhavani Devi associated?

(a) Rowing
(b) Fencing
(c) Boxing
(d) Wrestling

Q77. 'Memoirs of Babur' or 'Baburnama', also known as 'Tuzk-e Babri', was written by:

(a) Talib Amah
(b) Abdul Rahim Khan-i-Khanan
(c) Babur
(d) Faizi

Q78. Who among the following was one of the winners of Nobel Prize in Physics 2020?

(a) Kip Thorne
(b) Arthur Ashkin
(c) Michel Mayor
(d) Roger Penrose

Q79. The innermost part of a flower is called the:

(a) pistil
(b) stamen
(c) sepal
(d) petal

Q80. Which keyboard shortcut in Microsoft Excel 2016 should you use to insert a new worksheet for Windows 10 operating system?

(a) Shift + F11
(b) Shift + F5
(c) Shift + F7
(d) Shift + F12

Q81. What was India's per capita net national income (estimated) during 2019-20?

(a) Rs. 1,15,050
(b) Rs. 1,55,050
(c) Rs. 1,35,050
(d) Rs. 1,85,050

Q82. In which of the following states is the Loktak Lake located?

(a) Sikkim
(b) Rajasthan
(c) Haryana
(d) Manipur

Q83. Who among the following was the President of the Board of Control for Cricket in India (BCCI) as of December 2020?

(a) Sanjay Manjrekar
(b) Kapil Dev
(c) Sourav Ganguly
(d) Ravi Shastri

Q84. Since 2000, Euro norms are followed in India under the name _____ Stage Emission Standards for four wheeled vehicles.

(a) Jagat
(b) India
(c) Bharat

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(d) Hindustan

Q85. Which of the following companies in India has tied up with Facebook to train offline retailers to go digital on social media platforms?

(a) Samsung India
(b) Reliance
(c) Nokia
(d) Vivo

Q86. In which of the following mountain ranges will you find the Guru Shikhar peak?

(a) Satpura
(b) Karakoram
(c) Vindhya
(d) Aravalli

Q87. Which of the following mountain ranges is home to the second-highest peak of the world, K2?

(a) Ladakh Range
(b) East Karakoram Range
(c) Pir Panjal Range
(d) Zanskar Range

Q88. According to Article 24 of the Constitution of India, a person below ___ years of age shall not be employed to work in any factory.

(a) 25
(b) 14
(c) 21
(d) 19

Q89. The normal term of every Lok Sabha _____ is years

(a) 7
(b) 12
(c) 5
(d) 10

Q90. Litmus paper changes to _____ colour when put in soap water.

(a) blue
(b) orange
(c) yellow
(d) red

Q91. Which of the following indigenous games is included in the Khelo India Youth Games 2021?

(a) Nondi
(b) Gatka
(c) Pallankuzhi
(d) Chaupar

Q92. Who among the following film makers was conferred with the 'Padma Shri', the fourth highest civilian honour of the country, in 2020?

(a) Zoya Akhtar
(b) Ekta Kapoor
(c) Tanuja Chandra
(d) Deepa Mehta

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Q93. With which of the following musical instruments is the musician Zakir Hussain associated?

(a) Dhol
(b) Tabla
(c) Tanpura
(d) Vichitra veena

Q94. Who among the following won the Golden Globe 2020 award for 'Best Performance by an Actress in a Motion Picture - Drama'?

(a) Renee Zellweger
(b) Charlize Theron
(c) Cynthia Erivo
(d) Beanie Feldstein

Q95. In which of the following states is the Sirki Waterfall located?

(a) Andhra Pradesh
(b) Madhya Pradesh
(c) Himachal Pradesh
(d) Arunachal Pradesh

Q96. What was the theme of the World Sustainable Development Summit 2021?

(a) Attaining the 2030 Agenda : Delivering on our Promise
(b) Partnerships for a Resilient Planet
(c) Redefining Our Common Future : Safe and Secure Environment For All
(d) Towards 2030 Goals : Making the Decade Count

Q97. Hamideh Banu Maryam Makani was the wife of Mughal emperor _____.

(a) Jahangir
(b) Babur
(c) Humayun
(d) Shah Jahan

Q98. 'Ranapa', a folk dance form of Odisha, consists of enacting from the life of Lord _____.

(a) Indra
(b) Hanuman
(c) Ram
(d) Krishna

Q99. Which of the following international awards did Indian drama series 'Delhi Crime' win in 2020?

(a) Cannes Corporate Media & TV Awards - Best Drama
(b) International Emmy Award for Best Drama Series
(c) British Academy Television Award for Best Drama Series
(d) Golden Globe Award for Best Television Series - Drama

Q100. Who among the following is the only Indian to have won an individual gold medal at the Olympics?(As of 2020)

(a) P. V. Sindhu
(b) Vijender Singh
(c) Abhinav Bindra
(d) Karnam Malleswari

ANSWER KEY

1	b	2	b	3	c	4	c	5	a	6	d	7	d	8	c	9	a	10	c
11	c	12	a	13	a	14	a	15	b	16	d	17	a	18	d	19	a	20	d
21	c	22	a	23	b	24	b	25	a	26	d	27	a	28	c	29	a	30	d

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31	c	32	d	33	d	34	b	35	c	36	b	37	a	38	b	39	d	40	d
41	a	42	a	43	c	44	d	45	d	46	a	47	d	48	d	49	a	50	c
51	c	52	b	53	c	54	d	55	b	56	a	57	a	58	b	59	c	60	d
61	b	62	d	63	a	64	a	65	d	66	c	67	d	68	d	69	b	70	d
71	d	72	d	73	d	74	b	75	a	76	b	77	c	78	d	79	a	80	a
81	c	82	d	83	c	84	c	85	a	86	d	87	b	88	b	89	c	90	a
91	b	92	b	93	b	94	a	95	d	96	c	97	c	98	d	99	b	100	c

SOLUTIONS

Q1. Answer: (b) as she always have time to listen and guide

The correct answer is option 2) i.e., 'as she always have time to listen and guide'.

Key Points

• The error lies in the part as she always have time to listen and guide.

• The given sentence is in past tense as it talks about the time when the subject was in school. (was, found are past tense verbs)

• But in option 3 the present tense verb have has been used.

• This makes as she always have time to listen and guide the incorrect part.

• Thus, option 3 is the correct answer.

So the correct sentence is- When I was at school I found my class teacher to be the best mentor as she always had time to listen and guide.

Additional Information

• We can correct the part as she always have time to listen and guide by using had instead of have.

Q2. Answer: (b) a difficult person or problem

The solution is in Hindi. Read it online.

Q3. Answer: (c) was engaged

The correct answer is option 3) i.e., 'was engaged'.

Key Points

• The error lies in the part 'was enagaged' in the given sentence.

• Teacher and student are two subjects joined by and.

• If the subject consists of two or more words that are connected by and then the subject is plural.

• To maintain the subject-verb agreement, plural subjects need a plural verb.

• Was engaged is incorrect as was is a singular verb.

• Thus, option 3 is the correct answer.

So the correct sentence is- The teacher and her student were engaged in a discussion on the current political crisis

Q4. Answer: (c) amend

The correct answer is option 3) i.e., 'amend'.

Key Points

• Let us look at the meaning of the given options -

• abandon - cease to support or look after (someone); desert.

• introduce - bring (something, especially a product, measure, or concept) into use or operation for the first time.

• amend - make minor changes to (a text, piece of legislation, etc.) in order to make it fairer or more accurate, or to reflect changing circumstances.

• initiate - cause (a process or action) to begin.

• The given blank needs a word that would signify the step taken by the states with respect to existing labour laws following the migrant crisis.

• From the above meanings it is clear that amend is the most appropriate option to fill in the blank.

• So, option 3 is the correct answer.

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Q5. Answer: (a) enlighten

The correct answer is option 1) i.e., 'enlighten'.

Key Points

• Bewilder means cause (someone) to become perplexed and confused.

• The meaning of the given options are as follows -

• enlighten - give (someone) greater knowledge and understanding about a subject or situation.

• weaken - make or become weaker in power, resolve, or physical strength.

• confuse - make (someone) bewildered or perplexed.

• terrify - cause to feel extreme fear.

• From the above meanings it is clear that enlighten is the appropriate antonym for the word bewilder.

• This makes option 1 the correct answer.

Q6. Answer: (d) The sitar is played very well by Radha.

The correct answer is option 4) i.e., 'The sitar is played very well by Radha.'

Key Points

• The given sentence is an assertive sentence.

• To change the voice of an assertive sentence these steps are followed -

• Find the subject and object of the sentence and exchange their places.

• In the given sentence the subject is Radha, while the object is sitar.

• Use preposition by before agent. (Radha)

• Always use the past tense form (played) of the main verb (plays) in passive form.

• Following these steps, we finally get - The sitar is played very well by Radha.

Q7. Answer: (d) noncomital

The correct answer is option 4) i.e., 'noncomital'.

Key Points

• Let us explore the meaning of the given options

• accommodate - (of a building or other area) provide lodging or sufficient space for.

• flapped - (of a bird) move (its wings) up and down when flying or preparing to fly.

• referred - mention or allude to.

• noncomital -There is no such word in English or we can say that there is a spelling mistake in the word.

• Hence, the correct answer is option 4.

Additional Information

• If we double the letters m and t in the word noncomital, we get the word noncommittal.

• Noncommittal is a proper English word and it means not expressing or revealing commitment to a definite opinion or course of action.

Q8. Answer: (c) companionship

The correct answer is option 3) i.e., 'companionship'.

Key Points

• Bonhomie means cheerful friendliness; geniality.

• The meaning of the given options are as follows -

• irritation - the state of feeling annoyed, impatient, or slightly angry.

• deceit - the action or practice of deceiving someone by concealing or misrepresenting the truth.

• companionship - a feeling of fellowship or friendship.

• fickleness - changeability, especially as regards one's loyalties or affections.

• From the above meanings it is clear that companionship is the appropriate synonym for the word bonhomie.

• This makes option 3 the correct answer.

Q9. Answer: (a) Impregnable

The correct answer is option 1) i.e., 'Impregnable'.

Key Points

• Let us look into the meaning of the given options -

• Impregnable - (of a fortified position) unable to be captured or broken into.
• Irresistible - too attractive and tempting to be resisted.
• Impromptu - done without being planned, organized, or rehearsed.
• Imperative - of vital importance; crucial.
• From the above meanings it is clear that impregnable is the most appropriate one-word substitution for the given words - Something which cannot be taken by force
• Thus, option 1 is the correct answer.

Q10. Answer: (c) BDCA

The correct answer is option 3) i.e., 'BDCA'.

Key Points

• When arranging sentences, it is easier to order the first few; and then eliminate the options accordingly.
• The first sentence of a paragraph is usually independent and introduces a topic. The second one provides more information about it.
• Here, only B is independent and introduces the topic which deals with the belief in God and how that believe is expressed through prayers and vows.
• So, B becomes the first sentence of the passage.
• Both options 1 and 3 show sentence B as the first sentence.
• So, we need to find the second sentence which will be either sentence A or D.
• Sentence A questions about the path that can be taken to reach our goals. But we need a mention of these goals first, before a question regarding them can be put forth.
• So, sentence D which talks about how there are variations and different paths to reach or believe in God, occupies the second position.
• So, D must come after B. Then BD is the correct order.
• As per option 3, the full sequence is : BDCA.
• B. Many of us believe in God, do our daily prayers and vow to be good.
• D. There may be variations in our chosen ideals of Him, but each of us believes in Him nevertheless.
• C. But unfortunately, when it comes to putting our ideas into practice, we procrastinate.
• A. How will we ever reach our goal if we don't follow our ideals and principles and follow the path we say we believe in?
• This sequence is logically correct, making option 3 the correct answer.

Q11. Answer: (c) To know something thoroughly

The correct answer is option 3) i.e., 'To know something thoroughly'.

Key Points

• Know inside out is an idiomatic expression which means to know something completely.
• She knows the business inside out.
• This means that option 3 - To know something thoroughly is the most appropriate meaning of the given idiom.

Q12. Answer: (a) appealing

The correct answer is option 1) i.e., 'appealing'.

Key Points

• Fascination means the state of being greatly interested in or delighted by something.
• The meaning of the given options are as follows -
• appealing - the quality of being attractive or interesting.
• agreement - harmony or accordance in opinion or feeling.
• dislike - feel distaste for or hostility towards.
• happiness - the state of being happy.
• From the above meanings it is clear that appealing is the appropriate synonym for the word fascination.
• This makes option 1 the correct answer.

Q13. Answer: (a) bitterly

The correct answer is option 1) i.e., 'bitterly'.

Key Points

• Let us look at the meaning of the given options -

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• bitterly - in an angry, hurt, or resentful way.
• definitely - without doubt (used for emphasis).
• mildly - in a mild or gentle manner.
• hardly - scarcely (used to qualify a statement by saying that it is true to an insignificant degree).
• The given blank needs an adverb that would describe how Savita was crying.
• From the given meaning of the options, it is clear that bitterly is the most appropriate word for the given blank.
• Thus, option 1 is the correct answer.

Q14. Answer: (a) imbalance

The correct answer is option 1) i.e., 'imbalance'.

Key Points

• Equilibrium means a state in which opposing forces or influences are balanced.
• The meaning of the given options are as follows -
• imbalance - lack of proportion or relation between corresponding things.
• stability - the state of being stable.
• coolness - the quality or condition of being at a fairly low temperature.
• adherence - attachment or commitment to a person, cause, or belief.
• From the above meanings it is clear that imbalance is the appropriate antonym for the word equilibrium.
• This makes option 1 the correct answer.

Q15. Answer: (b) applicasion

The incorrect spelling is option 2) i.e., 'applicasion'.

Key Points

• Let us explore the meaning of the given options
• promotion - activity that supports or encourages a cause, venture, or aim.
• applicasion - There is no such word in English or we can say that there is a spelling mistake in the word.
• tradition - the transmission of customs or beliefs from generation to generation, or the fact of being passed on in this way.
• completion -the action or process of completing or finishing something.
• Hence, the correct answer is option 2.

Additional Information

• If we replace the letter s in the word applicasion with the letter t, we get the word application.
• Application is a proper English word and it means a formal request to be considered for a position or to be allowed to do or have something, submitted to an authority, institution, or organization.

Q16. Answer: (d) dormant

The correct answer is option 4) i.e., 'dormant'.

Key Points

• Let us look into the meaning of the given options -
• inanimate - showing no sign of life; lifeless.
• duplicate - exactly like something else, especially through having been copied.
• invisible - unable to be seen.
• dormant - (of a plant or bud) alive but not actively growing.
• From the above meanings it is clear that dormant is the most appropriate one-word substitution for the given words - Not active or growing
• Thus, option 4 is the correct answer.

Q17. Answer: (a) CBDA

The correct answer is option 1) i.e., 'CBDA'.

Key Points

• When arranging sentences, it is easier to order the first few; and then eliminate the options accordingly.
• The first sentence of a paragraph is usually independent and introduces a topic. The second one provides more information about it.
• Here, only C is independent and introduces the topic which deals with a declaration made by scientists regarding a disease.
• So, C becomes the first sentence of the passage.

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• Both options 1 and 2 show sentence C as the first sentence.

• So, we need to find the second sentence which will be either sentence A or B.

• Sentence A talks about how few people know the long history of soap making. This sentence does not provide more information on sentence C. So, it cannot occupy the second position.

• But sentence B talks about how (they) are recommending frequent hand washes as a prevention measure. This links sentence B to sentence C which had talked about a disease. Logically a disease needs to be prevented.

• So, B must come after C. Then CB is the correct order.

• As per option 1, the full sequence is : CBDA.

• C. Scientists have declared that COVID-19 is here to stay.

• B. As a prevention, they recommend the frequent washing of hands for 20 seconds.

• D. This advice is practical and easy to follow as soap is a common and inexpensive consumer product.

• A. Yet few people know the long history of making soap.

• This sequence is logically correct, making option 1 the correct answer.

Q18. Answer: (d) that buying more

The correct answer is option 4) i.e., 'that buying more'.

Key Points

• The underlined part of the given sentence is incorrect as buy is the simple present tense.

• The given sentence implies that the action of buying things is a continuous procedure.

• So, the simple present tense buy should be replaced with the present continuous tense form buying.

• So, option 4 will improve the underlined segment in the given sentence.

So the correct sentence is- The advertising industry wants us to believe that buying more stuff will make us happier.

Q19. Answer: (a) were kept

The correct answer is option 1) i.e., 'were kept'.

Key Points

• The underlined part of the given sentence is incorrect as was keeping is the past continuous tense form of the verb keep.

• The given sentence is in simple past tense form and so the past continuous tense form cannot be used.

• The simple past tense form of keep is kept.

• We need to use the linking verb were as the sentence deals with the third person plural (they for the miscreants → (they) were kept).

• So, option 1 is the most appropriate option to substitute the underlined segment in the given sentence.

So the correct sentence is- The miscreants were shifted to another building that same evening and were kept in custody by the police.

Q20. Answer: (d) Sitab requests Madam to watch that program on their folk songs.

The correct answer is option 4) i.e., 'Sitab requests Madam to watch that program on their folk songs.'

Key Points

• The given sentence is a form of imperative sentence where a request has been made by using the word please.

• We need to follow the steps to change an imperative sentence to indirect speech -

• The reporting verb says is changed into requests.

• Put that between the reporting and reported speeches.

• The first person our will be changed into their.

• The tense of the given sentence is present tense (watch) which remains unchanged in the indirect sentence.

• The verb to is added before the verb of the reported speech (watch).

• Eventually, we will get the final sentence- Sitab requests Madam to watch that program on their folk songs.

Q21. Answer: (c) affects

The solution is in Hindi. Read it online.

Q22. Answer: (a) of

The correct answer is option 1) i.e., 'of'.

Key Points

• The given blank needs a preposition to show the relationship between food and discussion.

• This relationship is abstract and the correct preposition in this case is of which is used to express the relationship between a part and a whole.

• Thus, option 1 is the correct answer.

Additional Information

• On is used as a preposition in the following ways -

• in contact with and supported by - Put the books on the table.

• used to indicate means of being carried. He rode on a tractor.

• used to indicate the location of something. Both bedrooms are on the top floor.

• used to indicate the focus of a certain action. - He went down on his stomach.

• To is used as a preposition in the following ways -

• when indicating that there is movement from one place to another. We're flying to San Francisco on Thursday for a meeting.

• used to refer to time - We're going to wait another three weeks.

• With is used as a preposition when you're talking about people, or things being together. - I was with Jane yesterday when the accident happened.

Q23. Answer: (b) diet

The correct answer is option 2) i.e., 'diet'.

Key Points

• Let us look at the meaning of the given words -

• bread - food made of flour, water, and yeast mixed together and baked.

• diet - the kinds of food that a person, animal, or community habitually eats.

• nourishment - the food necessary for growth, health, and good condition.

• nutrition - the process of providing or obtaining the food necessary for health and growth.

• The given blank needs a word that would explain the vegetarian food for which Pythagoras argued.

• Thus, from the meaning of the given options we can say that diet is the best fit word for the given blank.

• So, option 2 is the correct answer.

Q24. Answer: (b) unknown

The correct answer is option 2) i.e., 'unknown'.

Key Points

• The sentence with the blank implies that the diet followed by Pythagoras was vegetarian.

• But vegetarianism was not a known entity during Pythagoras's time and so it became known as the Pythagorean diet.

• So, the best fit word for the given blank from the given options is unknown which means not known or familiar.

• Thus, option 2 is the correct answer.

Q25. Answer: (a) wisdom

The correct answer is option 1) i.e., 'wisdom'.

Key Points

• Let us look at the meaning of the given options -

• wisdom - the quality of having experience, knowledge, and good judgement; the quality of being wise.

• greatness - the quality of being great; eminence or distinction.

• development - the process of developing or being developed.

• creation - the action or process of bringing something into existence.

• The sentence with the given blank talks about how Pythagoras was known for his work in the field of geometry, but how people forget his understanding of diet.

• So, from the given meanings, it is clear that wisdom is the best fit word for the given blank.

• Thus, option 1 is the correct answer.

Q26. Answer: (d) d c a d b a

Given: b a_d a_b b_d_a c b_a d d_c b

By checking options:

(1) d c d a b d → b a d d a c b / b d d a a c b / b a d d d c b

(2) b c a c b a → b a b d a c b / b a d c a c b / b a d d a c b

(3) c a d d b a → b a c d a a b / b d d d a c b / b a d d a c b

(4) d c a d b a → b a d d a c b / b a d d a c b / b a d d a c b

• Option (4) gives a pattern of b a d d a c b - b a d d a c b - b a d d a c b.

Hence, d c a d b a is the correct answer.

Q27. Answer: (a) Dog

By checking options:

All tigers, lions, and cats are members of the Felidae family, commonly known as the cat family.

Whereas,

Dogs are members of the Canidae family.

Hence, dog is the odd one.

Q28. Answer: (c) 115

By checking options:

(1) 73 → It is a prime number.

(2) 127 → It is a prime number.

(3) 115 → It is not a prime number. It is a composite number.

(4) 89 → It is a prime number.

Hence, 115 is the odd one.

Q29. Answer: (a) DLRT

The table is alphabets place value:

The logic followed here is: Sum of the positional values of the letters is equal to 50, as shown below

(1) DLRT

(2) HKMR

(3) FMNQ

(4) BJPV

Hence, DLRT is the odd one out.

Q30. Answer: (d) [figure]

Given:

The logic followed here is: The above-given image is embedded in the figure given in option (4), as shown below,

Hence, option (4) is the correct answer.

Q31. Answer: (c) [figure]

The logic followed here is:

The paper when unfolded will look like this:

Hence, option (3) is the correct answer.

Q32. Answer: (d) (4, 12, 18)

Given: (2, 6, 9)

The logic followed here is:

(2, 6, 9) → 2 × 3 = 6, 6 × 1.5 = 9

Similarly, only option (4) follow the above same logic, as shown below,

(4, 12, 18) → 4 × 3 = 12, 12 × 1.5 = 18

Hence, (4, 12, 18) is the correct answer.

Q33. Answer: (d) 100

The logic followed here is:

Sum of same place value of consonants and opposite place value of Vowel = Number code

MAKER is coded as 90

Similarly,

BROTHER = ?

Hence, the correct answer is "100".

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Q34. Answer: (b) 63 : 82

Given: 24 : 37

The logic followed here is:

24 : 37 → 52 = 25 → 25 -1 = 24, and 62 = 36 → 36 + 1 = 37

Similarly, by checking options:

63 : 82 → 82 = 64 → 64 - 1 = 63, and 92 = 81 → 81 + 1 = 82

Hence, 63 : 82 is the correct answer.

Q35. Answer: (c) 39

The logic followed here is:

Females who are either graduates or employed but NOT both means common part of circle and rectangle and common part of circle and triangle but excluding the common part of all the three figures, as shown below,

Thus, females who are either graduates or employed but NOT both = 9 + 12 + 18 = 39

Hence, 39 is the correct answer.

Q36. Answer: (b) CCTR

Given: REST : SCTR : : BEST : ?

The logic followed here is:

Similarly,

Hence, "CCTR" is the correct answer.

Q37. Answer: (a) KQNIW

Given: CIRCUS is written as DKUGZY.

The logic followed here is:

Similarly,

Hence, KQNIW is the correct answer.

Q38. Answer: (b) 17

By counting the triangles:

Hence, 17 is the correct answer.

Q39. Answer: (d) 5, 4, 2, 1, 6, 3

Arranging all the words in a logical order,

5. Education → First a child gets educated.

4. Interview → Then, interview.

2. Employment → Then, they get employed.

1. Income → then, they earn income.

6. Promotion → then, they get promoted

3. Superannuation → then, they get superannuation.

Hence, 5, 4, 2, 1, 6, 3 is the correct order.

Important Points

Superannuation a pension paid to a retired employee who has contributed to a fund.

Q40. Answer: (d) Week

Given: 'Second' is related to 'Minute' in the same way as 'Day' is related to '_____'.

The logic followed here is:

60 seconds is equal to 1 minute.

Similarly,

7 days is equal to 1 week.

Hence, week is the correct answer.

Q41. Answer: (a) [figure]

Given:

The logic followed here is:

(1) Symbols → first they are changing their position horizontally, then in the next step vertically.

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(2) Centre Image → rotating upside down and firstly, one line is removed every time inside it, then added after that.

So, the final series is as follows,

Hence, option (1) is the correct answer.

Q42. Answer: (a) 42

Given: 63, 63, 56, 56, 49, 49, 42, ?

The logic followed here is:

Hence, 42 is the correct answer.

Q43. Answer: (c) Digging : Spade

Given: Purification : Filter

The logic followed here is:

Purification is done through Filter.

Whereas,

Digging is done through Spade.

Hence, digging : spade is the correct answer.

Important PointsSpade →

Q44. Answer: (d) Only conclusion III follows

The least possible Venn diagram is:

Conclusions:

I. All bees are birds → False (it is possible but not definite, as no direct relation between them)

II. Some bees are birds → False (it is possible but not definite, as no direct relation between them)

III. Some birds are tigers → True (as all cats are birds and some tigers are cats, so the part of the cat that is a tiger is also a bird)

IV. All tigers are birds → False (it is possible but not definite, as shown in the diagram above)

Hence, only conclusion III follows.

Q45. Answer: (d) [figure]

Given:

The logic followed here is: The line AB is the mirror,

Detailed Explanation:

• The line AB is the mirror

• The given word "TER$MI5NATE" ends with E. So the mirror image will start with

=> Option 2 and 3 are eliminated.

• The given word "TER$MI5NATE" has second last letter "T", So the mirror image should be "T" => Option 1 is eliminated.

Hence, option (4) is the correct answer.

Q46. Answer: (a) {34, 41, 43}

Given: {46, 53, 64}

The logic followed here is:

{46, 53, 64} → 53 - 46 = 7 (prime), 64 - 53 = 11 (prime)

By checking options:

(1) {34, 41, 43} → 41 - 34 = 7 (prime), 43 - 41 = 2 (prime)

(2) {56, 64, 66} → 64 - 56 = 8 (composite), 66 - 64 = 2 (prime)

(3) {23, 30, 34} → 30 - 23 = 7 (prime), 34 - 30 = 4 (composite)

(4) {68, 73, 85} → 73 - 68 = 5 (prime), 85 - 73 = 12 (composite)

Hence, {34, 41, 43} is the correct answer.

Important PointsA prime number is a natural number greater than 1 that is not a product of two smaller natural numbers. A natural number greater than 1 that is not prime is called a composite number.

The first 25 prime numbers (all the prime numbers less than 100) are: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97.

For example, 5 is prime because the only ways of writing it as a product, 1 × 5 or 5 × 1, involve 5 itself.

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Q47. Answer: (d) 80%

Given:

Total number of questions in the test = 260

Sunita answered 40% of the first 130 questions correctly = 40/100 × 130

= 52 questions

To score 60% in the entire test she needs = 60/100 × 260

= 156 questions correct

Thus, number of correct answer required = 156 - 52 = 104 out of rest 130 questions.

So, the percentage = 104/130 × 100

= 80%

Hence, 80% is the correct answer.

Q48. Answer: (d) 22

Given: 16 ÷ 32 - 4 × 2 + 1 = ?

The logic followed here is:

Symbols	**×**	**÷**	**•**	**•**
Meaning	•	•	×	÷

By substituting the above symbols in the given equation, we get

16 ÷ 32 - 4 × 2 + 1

→ 16 + 32 ÷ 4 - 2 × 1

= 16 + 8 - 2 × 1

= 16 + 8 - 2

= 24 - 2

= 22

Hence, 22 is the correct answer.

Q49. Answer: (a) 2

Given:

Logic: If two dice have the same face value in the given image then their clockwise or anticlockwise wise rotation of the face is formed the opposite pair in dice.

While moving in a clockwise direction from the common face (6):

From both dices:

Dice 1	**6**	**2**	**5**
Dice 2	6	1	3

Now, 2 is opposite to 1, thus '2' will be on the face opposite to the face showing the number '1'.

Hence, 2 is the correct answer.

Q50. Answer: (c) Aunt

Given: K ÷ L + M + N

U is the				
Codes	•	•	×	÷
Meaning	father	wife	brother	daughter
of W				

Now, by substituting above symbols,

K ÷ L + M + N means, K is the daughter of L, L is the father of M, and M is the father of N. Therefore, the final family tree is as follows,

Hence, K is the aunt of N.

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Q51. Answer: (c) 322

Given:

sin θ + cosec θ = 7

Concept used:

x3 + 1/x3 = (x + 1/x)3 - 3(x + 1/x)

Calculation:

sin θ + cosec θ = 7

=> sin θ + 1/sin θ = 7

Now,

sin3 θ + 1/sin3 θ = (7)3 - 3(7)

=> 343 - 21 = 322

Therefore Required answer is 322

Q52. Answer: (b) a/b=c/d

Given:

(2a + 3b) (2c - 3d) = (2a - 3b) (2c + 3d)

Calculation:

(2a + 3b) (2c - 3d) = (2a - 3b) (2c + 3d)

=> 4ac - 6ad + 6bc - 9bd = 4ac + 6ad - 6bc - 9bd

=> 12bc = 12ad

=> bc = ad

=> a/b = b/c

Therefore Requried answer is a/b = c/d

Q53. Answer: (c) 5,280

Given:

Number of students (initially) = 90

Total number of students = 120

Expenditure of mess increased by 560

Average expenditure per head diminishes by 10

Calculation:

Let average expense per day be x

Total expense = 90x

After admission of 30 more students,

Total Expense = 90x + 560

Average Expense = x - 10

According to the question,

120(x - 10) = 90x + 560

=> 30x = 1760

=> x = 1760/30

=> 90x = 1760/30 × 90 = 1760 × 3 = 5280

Thus, Original Expenditure = Rs. 5280

Therefore Required answer is Rs. 5280

Q54. Answer: (d) 56

Shortcut Trick

Total distance to cross = 565 + 975 = 1540 m

Speed of the train = 99 km/h = 99 × 5/18 = 55/2 m/s

Time taken = Total Distance ÷ Speed = 1540 ÷ (55/2) = 56 seconds

Therefore The correct answer is 56 seconds.

Alternate Method

Given:

Length of the train = 565 m

Length of the tunnel = 975 m

Speed of the train = 99 km/h

Formula Used:

Time = Total Distance ÷ Speed

To convert speed from km/h to m/s, multiply by 5/18.

Tunnel (975 m)

Train (565 m)

99 km/h

Total Distance = 1540 m

Calculations:

=> Total Distance = Length of Train + Length of Tunnel

=> Total Distance = 565 + 975 = 1540 m

=> Speed of the train in m/s = 99 × 5/18

=> Speed = 11 × 5/2 = 55/2 m/s

=> Time taken = Total Distance ÷ Speed

=> Time = 1540 ÷ (55/2)

=> Time = (1540 × 2) ÷ 55

=> Time = 28 × 2 = 56 seconds

Therefore The correct answer is 56 seconds.

Additional Information

Speed Conversion

To convert speed from km/h to m/s, multiply by 5/18. To convert from m/s to km/h, multiply by 18/5.

Crossing an Object with Length

When a train crosses a platform, bridge, or tunnel, the total distance covered is the sum of the length of the train and the length of the object being crossed.

Crossing a Point Object

When a train crosses a stationary man, pole, or tree, the total distance covered is equal to the length of the train alone.

Relative Speed

If two trains move in opposite directions, their relative speed is S1 + S2. If they move in the same direction, it is S1 − S2.

Q55. Answer: (b) 12%

Calculation:

No. worker whose expenses is between 100 to 150 = 20

No. worker whose expenses is between 150 to 200 = 40

No. worker whose expenses is between 200 to 250 = 15

Total = 20 + 40 + 15 = 75

No. worker whose expenses is between 350 to 400 = 40

No. worker whose expenses is between 400 to 450 = 16

No. worker whose expenses is between 450 to 500 = 10

Total = 40 + 16 + 10 = 66

Difference = 75 - 66 = 9

% = 9/75 × 100 = 12%

Therefore Required answer is 12%

Q56. Answer: (a) 6√2 m

Given:

The angle of elevation of a ladder leaning against a wall = 45°

The length of the ladder is 12 m

Concept used:

cos θ = Base/Hypotenuse

Calculation:

From the following figure

AC is ladder
AC = 12 m
In ΔABC
=> cos 45° = BC/AC
=> 1/√2 = BC/12
=> BC = 12/√2
=> BC = 6√2
Therefore The distance between the wall and the foot of the ladder is 6√2 m

Q57. Answer: (a) 0.2

Given:
4 {2(3/4 of 24 - 1) + 3 (7÷ x) - 5 × 8 + 1} = 20^2 ?
Concept used:
Calculation:
4 {2(3/4 of 24 - 1) + 3 (7÷ x) - 5 × 8 + 1} = 20^2 ?
=> 4{2(3/4 × 24 - 1) + 3 × 7/x - 5 × 8 + 1} = 20^2
=> 4{2(18 - 1) + 3 × 7/x - 5 × 8 + 1} = 202
=> 4{34 + 3 × 7/x - 5 × 8 + 1} = 202
=> 4{34 + 21/x - 40 + 1} = 400
=> {34 + 21/x - 40 + 1} = 100
=> 21/x = 100 + 40 - 34 - 1
=> 21/x = 105
=> x = 1/5 = 0.2
Therefore Requried answer is 0.2

Q58. Answer: (b) 72°

Given:
angle DOC = 73° and angle AOC = 215°
Concept used:
Complete angle = 360°
Caculation:
In the given figure
O is the center
angle DOC = 73° and angle AOC = 215°
So, angle AOD = 360 - 215 - 73 = 72°
Therefore Required answer is 72°

Q59. Answer: (c) 165.9

Given:
Base = 21.4 cm
Height = 15.5 cm
Concept used:
Area of a triangle = 1/2 × base × height
Calculation:
Area = 1/2 × 21.4 × 15.5
=> 10.7 × 15.5
=> 165.85 ≈ 165.9
Therefore Area of the triangle is 165.9 cm^2

Q60. Answer: (d) 2

Given:
985x3678y is divisible by 72,
Concept used:

A number will be divisible by 8 if the last 3 digit of a number is divisible by 8.
A number will be divisible by 9 if the sum of the digits is divisible by 9.
Calculation:
A number will be divisible by 8 if the last 3 digit of a number is divisible by 8.
=> 31y will be divisible by 8 if and only if y = 2
So, the number becomes 87605x312
Now, The sum of digits is (32 + x)
The number will be divisible by 9 if the sum of the digits is divisible by 9.
For this x must be 4 [x is a digit, x can't be 13]
=> x = 4
Now, We have to find the value of 2x – 3y
=> 2 × 4 – 3 × 2 = 2
Therefore Required answer is 2

Q61. Answer: (b) 30

Total marks got by B in three subjects = 70 + 60 + 80 = 210
Total marks got by C in three subjects = 80 + 70 + 90 = 240
Difference = 240 - 210 = 30
Therefore Required answer is 30

Q62. Answer: (d) 3120 m²

Given:
One side of rectangular field = 39 m
Diagonal = 89 m
Formula used:
Area of rectangle = Length × breadth
Pythagoras theorem,
Hypotenuse² = Perpendicular² + Base²
Calculation:
According to the figure,
by Pythagoras theorem,
$BD^2 = AB^2 + AD^2$
=> $89^2 – 39^2 = AD^2$
=> $AD^2 = 7921 - 1521 = 6400$
=> AD = 80 m
Area = Length × breadth
=> A = 39 m × 80 m
=> A = 3120 m²
Therefore The area of the field is 3120 m2

Q63. Answer: (a) 16

Total number of players who scored 30.5 or less = 10 + 6
=> 16
Therefore Required answer is 16

Q64. Answer: (a) 38°

Given:
angle BPN = 52°
MN is the diameter
Calculation:
According to the diagram,
angle BPO = 90° [line from center of a circle makes 90° on tangent]
So, angle OPN = 90 - 52 = 38°

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Now, angle OPN = angle ONP [Because OP and ON is radius]
angle ONP = 38° = angle PNM
Therefore Required answer is 38°

Q65. Answer: (d) Rs. 582

Given:
SP = Rs. 557.75,
Profit = 15%
Concept used:
SP = CP + CP × Profit%
Calculation:
CP = 557.75 × 20/23
New SP = 557.75 × 20/23 × 6/5
=> Rs. 582
Therefore He should sell the fan at Rs. 582

Q66. Answer: (c) 112

Given:
The ratio of two numbers = 9 : 7
Calculation:
Let the first number and second number be 9x and 7x
According to the question,
9x - 7x × (1/7) = 56
=> 9x - x = 56
=> 8x = 56
=> x = 7
The sum of two numbers = 9 × 7 + 7 × 7
=> 112
Therefore The sum of the two numbers is 112

Q67. Answer: (d) ± 4

Given:
$(x^2 + 1/(49x^2)) = 155/7$
Concept used:
$(a + b)^2 = a^2 + b^2 + 2ab$
Calculation:
$(x^2 + 1/(49x^2)) = 155/7$
=> $x^2 + 1/49x^2 + 2/7 = 110/7 + 2/7$
=> (x + 1/7x)2 = 16
=> (x + 1/7x) = ± 4
Therefore Required answer is ± 4

Q68. Answer: (d) 1,300

Given:
Sum = Rs. 2,60,000
Interest = 12%
Total awardies = 24
Concept used:
S.I = (PTR)/100
P = Principal
T = Time
R = Rate
Calculation:

Let each awardy gets Rs. x
So, total amount = 24x
Interest = 260000 × 12/100 = Rs. 31200
So, 24x = 31200
=> x = Rs. 1300
Therefore Required answer is Rs. 1300

Q69. Answer: (b) 14

Given:
a + b + c = 2
ab + bc + ca.= -1
Concept used:
a3 + b3 + c3 - 3abc = (a + b + c)(a2 + b2 + c2 – ab – bc – ca)
Calculation:
$a^2 + b^2 + c^2 + 2(ab + bc + ca) = 4$
=> a2 + b2 + c2 - 2 = 4
=> a2 + b2 + c2 = 6
Now,
a3 + b3 + c3 - 3abc = 2 {6 – (- 1)}
=> 14
Therefore Required answer is 14

Q70. Answer: (d) 182

Given:
The base of a triangle is equal to the perimeter of a square whose diagonal is 7√ 2 cm
Height is equal to the side of a square whose area is 169 cm2
Concept used:
Area of a triangle = 1/2 × base × height
Side of a square = Diagonal/√2
SIde of a square = √(Side square)²
Calculation:
Side of the 1st square = 7
Perimeter = 7 × 4 = 28
So, the base of the triangle = 28 cm
Side of the 2nd square = 13
So, the height of the triangle is 13 cm
Area = 1/2 × 28 × 13
=> 182 cm²
Therefore Area of the triangle is 182 cm2

Q71. Answer: (d) 7.5

Shortcut Trick
A completes 1/2 work in 6 days (half of 12 days).
B finishes the remaining 1/2 work in 10 days, so B takes 20 days for full work.
Together Time = (A × B) ÷ (A + B) = (12 × 20) ÷ (12 + 20)
Together Time = 240 ÷ 32 = 7.5 days.
Therefore The correct answer is 7.5 days.
Alternate Method
Given:
Time taken by A = 12 days
Work done by A in 6 days = 6 ÷ 12 = 1/2
Remaining work = 1 − 1/2 = 1/2
Time taken by B to finish 1/2 work = 10 days

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=> Time taken by B to finish full work = 10 × 2 = 20 days

Person	Days	Total Work	Efficiency
A	12	60 (LCM)	5
B	20	3	

Calculations:

=> Total Efficiency of (A + B) = 5 + 3 = 8 units/day

=> Total Work = 60 units

=> Time taken by (A + B) together = Total Work ÷ Total Efficiency

=> Time = 60 ÷ 8

=> Time = 7.5 days

Therefore The correct answer is 7.5 days.

Additional Information

Efficiency and Time Relationship

Efficiency is inversely proportional to time taken. If a person takes n days to complete a work, their 1-day efficiency is 1/n.

Combined Work Formula

For two people with individual completion times x and y, the time taken together is (x × y) ÷ (x + y).

Work done by different efficiencies

Total Work = Σ(Efficiency × Time). This concept is useful when people leave or join work midway.

Q72. Answer: (d) Rs. 28

Given:

SP of the pen = Rs. 26

Concept used:

SP = CP - CP × Loss%

Calculation:

Let the CP of the pen be Rs. x

According to the question,

x - 26 = x × 1/14

=> 14x - 364 = x

=> 13x = 364

x = 28

Therefore CP of the pen is Rs.28

Q73. Answer: (d) 50

Total manufacturing of B = 307 + 270 + 250 + 289 + 310 + 416

=> 1842

Average = 1842/6 = 307

In 2016 manufacting in B = 307 × 170/100 = 521.9

Manufaturing of A in 2015 = 348

So, Difference = 521.9 - 348 = 173.9

% = (173.9/348) × 100

=> 49.99% ≈ 50%

Therefore Required answer is 50%

Q74. Answer: (b) 8.65

Shortcut Trick

When a ladder makes an angle θ with a vertical wall, the height reached (h) is the adjacent side of the triangle.

Formula: Height = Ladder Length × cos(θ)

Height = 10 × cos(30°) = 10 × (√3 ÷ 2)

Height = 5 × 1.73 = 8.65 m

Therefore The correct answer is 8.65 m.

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Alternate Method

Given: Ladder length = 10 m, Angle with wall = 30°, √3 = 1.73.

In the right-angled triangle ABC, let AC be the wall, BC be the ground, and AB be the ladder.

=> Hypotenuse (AB) = 10 m

=> Angle with wall (angle BAC) = 30°

=> cos(angle BAC) = Adjacent side (AC) ÷ Hypotenuse (AB)

=> cos(30°) = Height (h) ÷ 10

=> (√3 ÷ 2) = h ÷ 10

=> h = (10 × √3) ÷ 2

=> h = 5 × 1.73

=> h = 8.65 m

Therefore The correct answer is 8.65 m.

Additional Information

Trigonometric Ratios

For a right-angled triangle, sin θ = opposite/hypotenuse and cos θ = adjacent/hypotenuse.

Angle with Ground vs Wall

If the angle with the wall is θ, the angle with the ground is (90° − θ). For θ = 30°, the angle with the ground is 60°.

Pythagoras Theorem

In any right triangle, $(\text{Base})^2 + (\text{Height})^2 = (\text{Hypotenuse})^2$.

Common Trig Values

cos(30°) = √3/2 ≈ 0.866; sin(30°) = 1/2 = 0.5; tan(30°) = 1/√3 ≈ 0.577.

Q75. Answer: (a) 100/9

Given:

Two numbers are less than third number by 37% and 30% respectively.

Calculations:

Let the third number(C) be '100'.

=> The first number(A) = (100 - 37)% of 100

=> A = 63

The second number(B) = (100 - 30)% of 100

=> B = 70

Now, Percent by which B is more than by A is = {(70 - 63)/63} × 100

=> 100/9

Therefore The percentage by which the second number is more than the first is 100/9 %

Q76. Answer: (b) Fencing

The correct answer is Fencing.

Key Points

• Tamil Nadu's Bhavani Devi, the 1st Indian fencer to qualify for the Olympics, was felicitated by Indian Fencing Association.

• The 27-year-old qualified for the Tokyo Olympics through the Adjusted Official Ranking (AOR) method.

• In March 2021 ending, Bhavani storms into the semifinals of the Women's sabre individual competition in the 31st Senior National Fencing Championships at Delhi Public School.

Additional Information

Sport	Famous Indian Players
Fencing	• C.A Bhavani Devi - Kabita Devi - Giso Nidhi Kumaresan Padm
Boxing	• Mary Kom - Vijender Singh Beniwal - Shiva Thapa - Amit Panghal
Wrestling	• Vinesh Phogat - Sushil Kumar - Sakshi Malik - Bajrang Punia - Yogeshwar Dutt - Sandeep Toma

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Q77. Answer: (c) Babur

The correct answer is Babur.

Key Points

• Babur has written his biography i.e. Baburnama which is also known as Tuzk-e Babri. Babur and Jahangir are the only two emperors of the Mughal Empire who wrote their own biographies.

• Baburnama is also known to be the first true autobiography in Islamic literature.

• Baburnama was written in Chagatai Turkic, which was Babur's mother tongue.

Additional Information

• Tuzk-e Babri is written in the Chagatai language, known to Babur as Turki (meaning Turkic), the spoken language of the Timurids.

• As the Mughals were Chaghtai Turks by origin, Turkish was their mother tongue.

• Tuzk-e Babri is the memoirs of Zahir-ud-Dīn Muhammad Bābur (1483- 1530), founder of the Mughal Empire and a great-great-great-grandson of Timur.

• During Emperor Akbar's reign, the work was completely translated to Persian, the usual literary language of the Mughal court by a Mughal

courtier, Abdul Rahim.

• It was Akbar who consciously set out to make Persian the leading language of the Mughal court.

Q78. Answer: (d) Roger Penrose

The correct answer is Roger Penrose.

Key Points

• Roger Penrose was one of the winners of the Nobel Prize in Physics 2020.

• Roger Penrose of Britain, Reinhard Genzel of Germany, and Andrea Ghez of the US won the Nobel Physics Prize for 2020.

• The physicists were selected for their discoveries about one of the most exotic phenomena in the universe, the black hole.

• Andrea Ghez is just the fourth woman to receive the physics prize since 1901 when the first Nobel prizes were handed out.

Additional Information

• Roger Penrose used ingenious mathematical methods in his proof that black holes are a direct consequence of Albert Einstein's general theory of relativity.

• Einstein did not himself believe that black holes really exist, these super-heavyweight monsters that capture everything that enters them. Nothing can escape, not even light.

• Reinhard Genzel and Andrea Ghez each lead a group of astronomers that, since the early 1990s, have focused on a region called Sagittarius A* at the centre of our galaxy.

• Their pioneering work has given us the most convincing evidence yet of a supermassive black hole at the centre of the Milky Way.

Q79. Answer: (a) pistil

The correct answer is Pistil.

Key Points

• Pistil: The pistil is the innermost part of the flower. It is the female part of the flower.

• Stamen: The stamen is the male part of the flower.

• Petals: The petal is the colored part of the flower that gives it a unique shape.

• Sepals: These are leaf-like structures attached to the outside of the flower. They're very similar to petals.

• The schematic diagram of the flower is as follows:

Q80. Answer: (a) Shift + F11

The correct answer is Shift + F11.

Key Points

• Shift + F11 in Microsoft Excel 2016 should you use to insert a new worksheet for Windows 10 operating system.

• F11 Creates a chart of the data in the current range.

• SHFT+F11 inserts a new worksheet.

• ALT+F11 opens the Microsoft Visual Basic Editor, in which macro can be created.

Additional Information

• F3 Displays the Paste Name dialog box.

• SHFT+F3 displays the Insert Function dialog box.

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• F7 Displays the Spelling dialog box to check to spell in the active worksheet or selected range.
• CTRL+F7 performs the Move command on the workbook window when it is not maximized.
• F5 Displays the Go To dialog box.
• CTRL F5 restores the window size of the selected workbook window in Microsoft Excel.

Q81. Answer: (c) Rs. 1,35,050

The correct answer is Rs 1,35,050.

Key Points

• India's per capita net national income (estimated) during 2019-20 was Rs 1,35,050.
• National Income in India:
• The per-capita net national income during 2019-20 is estimated to be Rs 1,35,050 showing a rise of 6.8 percent as compared to Rs1,26,406 during 2018-19 with a growth rate of 10.0 percent.
• According to the annual national income and GDP 2019-20 data released by the Ministry of Statistics and Programme Implementation (MOSPI).
• In 2018-19, the monthly per-capita income had stood at Rs 10,534.
• The country's per-capita monthly income is estimated to have risen by 6.8 percent to Rs 11,254 during 2019-20, government data on national income.
• India ranks third when GDP is compared in terms of purchasing power parity at 33 trillion.
• When it comes to calculating GDP per capita, India's high population drags its nominal GDP per capita down to,170.
• India is the fifth-largest overall, with a nominal GDP.

Q82. Answer: (d) Manipur

The correct answer is Manipur.

Key Points

• Loktak Lake is the largest freshwater lake in Northeast India and is famous for the phumdis a series of floating islands) floating over it.
• The lake is located near Moirang town in Manipur state.

Additional Information

• Phumdis are heterogeneous masses of vegetation, soil, and organic matter at various stages of decomposition.
• Phumdis play an important role in the ecological processes and functions of the lake ecosystem.
• The largest single mass of phumdi is in the southeastern part of the lake, covering an area of 40 km2.
• This mass constitutes the world's largest floating park, named Keibul Lamjao National Park.
• It serves as a source of water for irrigation, drinking water supply, and hydropower generation.
• Status: Ramsar Wetland: 1990.
• Listed in Montreux Record in 1993.

Q83. Answer: (c) Sourav Ganguly

The correct answer is Sourav Ganguly.

Key Points

• Sourav Chandidas Ganguly, affectionately known as Dada, is the 39th and the current president of the Board of Control for Cricket in India, an Indian cricket administrator, commentator, and former national cricket team captain.
• On October 23, 2019, Ganguly became the 39th BCCI president, thus ending the 33-month reign of the Supreme Court-appointed Committee of Administrators (CoA) to run the cricket board's daily affairs.
• Sourav Ganguly is only the second cricketer from India to become the president of the BCCI.
• Ganguly, who played 113 tests and 311 one-day internationals and led India to 21 test wins, has already been an administrator for the Cricket Association of Bengal, his home state association (CAB).
• In the past, he was part of the BCCI's technical panel and also, alongside Sachin Tendulkar and VVS Laxman, part of a three-member Cricket Advisory Committee.

Q84. Answer: (c) Bharat

The correct answer is Bharat.

Key Points

• Since 2000, Euro norms are followed in India under the name Bharat Stage Emission Standards for four-wheeled vehicles.
• In 13 major cities, Bharat Stage IV emission norms have been in place since April 2010 and it has been enforced for the entire country since April 2017.

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• In 2016, the Indian government announced that the country would skip the BS V norms altogether and adopt BS-VI norms by 2020.

Additional Information

• Vehicle emission norms were introduced in India in 1991 for petrol and in 1992 for diesel vehicles.

• Since 2000, Euro norms are followed in India under the name Bharat Stage Emission Standards for four-wheeled vehicles. Bharat stage III norms have been enforced across India since October 2010.

• The National Auto Fuel Policy 2003 introduced certain emission requirements for interstate buses with routes originating or terminating in Delhi or the other mentioned cities.

• For 2-and 3-wheelers, Bharat Stage II applied from April 1, 2005, and Stage III standards came into force on April 1, 2010.

Q85. Answer: (a) Samsung India

The correct answer is Samsung India.

Key Points

• Samsung India has tied up with Facebook to train offline retailers to go digital on social media platforms like Instagram and WhatsApp.

• The two companies have already trained more than 800 offline retailers.

• The presence of local Samsung retailers on Facebook, Instagram, and WhatsApp will help consumers reach out to their local retailers.

Q86. Answer: (d) Aravalli

The correct answer is Aravalli.

Key Points

• Guru Shikhar Peak is located in the Arbuda Mountains of Rajasthan.

• It is the highest point of the Aravalli Range situated at 1,722 meters.

• It is named Guru-Shikhar or 'the peak of the guru' after Dattatreya, an incarnation of Vishnu, and a cave at the summit contains a temple dedicated to him, plus one dedicated to his mother, Anasuya, wife of sage Atri.

Additional Information

• Satpura Range:

• It is a part of the Deccan plateau. It is a series of seven mountains. Hence, called Satpura.

• It runs in an east-west direction south of the Vindhyas and in between the Narmada and the Tapi, roughly parallel to these rivers.

• It stretches for a distance of about 900 km.

• Dhupgarh which is 1,350 m high is located near Pachmarhi on Mahadev Hills.

• The Vindhya Range:

• It is a complex, discontinuous chain of mountain ridges, hill ranges, highlands, and plateau escarpments in West-central India.

• The Vindhya range mostly extends through the Indian states of Gujarat, Rajasthan, and Madhya Pradesh.

• The Karakoram Range:

• It is a mountain range spanning the borders of China, India, and Pakistan, with the northwest extremity of the range extending to Afghanistan and Tajikistan.

• It is the second-highest mountain range in the world. It is a part of the complex of ranges including the Pamir Mountains, the Hindu Kush, and the Himalayan Mountains. The Karakoram Highway connects China-Pakistan.

• The range has eight mountains with tops over 7,500 meters (24,600 ft) high.

• Four of these are higher than 8,000 meters (26,000 ft). They are K2, Gasherbrum I, Broad Peak, and Gasherbrum II.

Q87. Answer: (b) East Karakoram Range

The correct answer is East Karakoram Range.

Key Points

• K2 is also known as Mount Godwin Austen and locally it is known as Dapsang or Chogori is the world's second-highest peak.

• K2 is located in the Karakoram Range.

• It was given the symbol K2 because it was the second peak measured in the Karakoram Range.

• The world's highest mountain peak is Mount Everest.

Additional Information

Name of the range	Country/State/UT in which they are situated
Ladakh Range	Ladakh (India)

Pir Panjal Range	Jammu and K
Zanskar Range	Ladakh(India)

Q88. Answer: (b) 14

The correct answer is 14.

Key Points

• According to Article 24 of the Constitution of India, a person below 14 years of age shall not be employed to work in any factory.

• Prohibition of Employment of Children:

• Article 24 prohibits the employment of children below the age of 14 years in any factory, mine or other hazardous activities like construction work or railway.

• It is an absolute prohibition. But it does not prohibit their employment in any harmless or innocent work.

• The Child Labour (Prohibition and Regulation) Act, 1986, is the most important law in this direction.

• In addition, the Employment of Children Act, 1938; the Factories Act, 1948; the Mines Act, 1952; the Merchant Shipping Act, 1958; the Plantation Labour Act, 1951; the Motor Transport Workers Act, 1951; Apprentices Act, 1961; the Bidi and Cigar Workers Act, 1966; and other similar acts prohibit the employment of children below a certain age.

• In 2006, the government banned the employment of children as domestic servants or workers in business establishments like hotels, dhabas, restaurants, shops, factories, resorts, spas, tea shops, and so on. It warned that anyone employing children below 14 years of age would be liable for prosecution and penal action.

• The Child Labour (Prohibition and Regulation) Amendment Act, 2016, amended the Child Labour (Prohibition and Regulation) Act, 1986.

• It has renamed the Principal Act as the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986.

Q89. Answer: (c) 5

The correct answer is 5.

Key Points

• Lok Sabha is the lower house of India's bicameral Parliament.

• The Hindi name of Lok Sabha was adopted by the house of the people on 14th May 1954.

• The full term of a Lok Sabha is 5 years.

• Fifth Lok Sabha from 1971 to 1977(5 years 10 months and 6 days) is the longest Lok Sabha in India.

• Twelfth Lok Sabha from 1998 to 1999(1 year 1 month and 4 days) is the shortest Lok Sabha in India.

Additional Information

• Lok Sabha is constituted under article 81 of the constitution.

• G. V Mavlankar is the father of Lok Sabha.

• The maximum strength of the Lok Sabha is fixed at 552.

• Money bill can introduce only in Lok Sabha and not in Rajya Sabha.

• A resolution to discontinue a national emergency can be passed on by the Lok Sabha.

• Uttar Pradesh has the maximum membership in Lok Sabha.

Q90. Answer: (a) blue

The correct answer is Blue.

Key Points

• Litmus paper changes to a blue colour when put in soap water.

• Indicators are the substances that are used to identify whether the given substance is an acid or a base.

• There are two types of indicators:

• Natural:

• These indicators are obtained from natural sources like plants.

• Turmeric, litmus, china rose petals, etc., are some of the naturally occurring indicators.

• The most commonly used natural indicator is litmus.

• It is extracted from lichens.

• It is available in the form of a solution, or in the form of strips of paper, known as litmus paper.

• Man-made:

• Phenolphthalein, Methyl orange are some of the man-made indicators.

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Q91. Answer: (b) Gatka

The correct answer is Gatka.

Key Points

• The Sports Ministry has approved the inclusion of four indigenous including Gatka, Kalaripayattu, Thang-Ta, and Mallakhamba in the Khelo India Youth Games 2021.

• Kalaripayattu:

• It is a martial art designed for the ancient battlefield.

• Gatka:

• It is an Indian martial art associated with the Sikhs of the Punjab who practice an early variant of the martial arts.

• Thang-Ta:

• It is an Indian martial art from Manipur.

• It is the art of the Sword and Spear.

Additional Information

• Khelo India Youth Games:

• It is formerly known as Khelo India School Games.

• It is the multidisciplinary grassroots games held for two categories:

• Under-17 years school students, Under-21 college students.

• First Event: 2018 hosted by Delhi, topped by Haryana.

• 2020 Edition: Guwahati, Assam topped by Maharashtra.

• 2021 Edition: Haryana.

Q92. Answer: (b) Ekta Kapoor

The correct answer is Ekta Kapoor.

Key Points

• Ekta Kapoor was conferred with the 'Padma Shri', the fourth highest civilian honor of the country, in 2020.

Additional Information

• Padma Shri Award:

• It is the fourth highest civilian award in the Republic of India.

• It comes after Bharat Ratna, Padma Vibhushan, Padma Bhushan.

• It was established in the year 1954.

• It is awarded for distinguished service in any field.

• In 2019, 94 people were given Padma Shri.

• Some of the 2019 Padma Shri Awardees are Shri Manoj Bajpayee (Art- Acting-Films, Maharashtra), Shri Sunil Chhetri (Sports - Football, Telangana).

• In 2020, 118 People were awarded Padma Shri.

Q93. Answer: (b) Tabla

The correct answer is Tabla.

Key Points

• Ustad Zakir Hussain, son of tabla player Ustad Allah Rakha, is the most famous classical tabla player in India today.

• He is appreciated both in the field of percussion and in the music world at large.

• He was awarded Padma Shri in the year 1988 and Padma Bhushan in 2002.

• The list of his awards also includes the Sangeet Natak Akademi Award, given by India's National academy of Music, Dance, and Drama which he received in 1990.

Q94. Answer: (a) Renee Zellweger

The correct answer is Renee Zellweger.

Key Points

• The 77th annual Golden Globes Awards were held on 5 Jan 2020 in Beverly Hills, California.

• Best motion picture – Drama was won by '1917.

• Best performance by an actress in a motion picture – Drama was won by Renee Zellweger for "Judy".

• Best performance by an actor in a motion picture - Drama was won by Joaquin Phoenix for "Joker".

• Best Director was won by Sam Mendes for '1917'.

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Additional Information

• Golden Globe Awards:

• Movie to receive highest nominations (6) Marriage Story.

• Movie to receive maximum awards (3) Once Upon a Time in Hollywood.

• Movie to win the Best Motion Picture - Musical or Comedy Once Upon a Time in Hollywood.

• Movie to win the Best Motion Picture - Drama 1917.

• Best Actor in a Motion Picture - Drama Joaquin Phoenix for Joker'.

• Best Actress in a Motion Picture - Drama Renée Zellweger for Judy.

• Best Actor in a Motion Picture - Musical or Comedy Taron Egerton for 'Rocketman'.

• Best Actress in a Motion Picture - Musical or Comedy Awkwafina for 'The Farewell'.

• Best Director - Sam Mendes for '1917'.

• Best Screenplay - Quentin Tarantino for 'Once Upon a Time in Hollywood'.

Q95. Answer: (d) Arunachal Pradesh

The correct answer is Arunachal Pradesh.

Key Points

• Sirki Waterfall is located at a distance of approx 10 kms from Pasighat in Arunachal Pradesh.

Additional Information

• Kunchikal Falls in Shimoga District Karnataka is the highest waterfall in India with a height of 1493 feet.

• Dudhsagar falls is known as the ‘Sea of milk’, it is formed from the Mandovi River.

• Ranchi, the capital city of Jharkhand is known as the city of waterfalls in India.

• Mawsynram, located in the northeastern state of Meghalaya, is recognized as the wettest region in the world.

Q96. Answer: (c) Redefining Our Common Future : Safe and Secure Environment For All

The correct answer is Redefining our common future: A Safe and Secure Environment for All.

Key Points

• World Sustainable Development Summit:

• It is the annual flagship event of The Energy and Resources Institute (TERI).

• It has become a focal point for global leaders and practitioners to congregate at a single platform to discuss and deliberate over climatic issues of universal importance.

• The Summit series has emerged as the premier international event on sustainability which focuses on the global future.

• Theme 2020- 'Towards 2030 Goals: Making the Decade Count’.

• It was the 19th edition.

• This thematic track attempts to sustain a conversation about achieving SDG 6 of the 2030 agenda with a focus on circular economy principles and use cases from various Indian Cities.

• Theme 2021- Redefining our common future: Safe & Secure Environment for All.

• Theme 2022- Towards a Resilient Planet: Ensuring a Sustainable and Equitable Future.

Q97. Answer: (c) Humayun

The correct answer is Humayun.

Key Points

• Hamideh Banu Maryam Makani was the wife of Mughal emperor Humayun.

• Hamida Banu Begum was chief and most favourite consort of the second Mughal emperor Humayun and the mother of his successor, the third Mughal emperor Akbar.

• She is also known by the title Maryam Makani, which was given to her by her son, Akbar.

Additional Information

Tips to Remember: (BHAJSA) for chronological order.

B -> Babur

H -> Humayun

A -> Akbar

J -> Jahangir

S -> Shah Jahan

A -> Aurangzeb

Q98. Answer: (d) Krishna

The correct answer is Krishna.

Key Points

• The 'Ranappa' dance is from the state of Odisha dedicated to Lord Krishna.

• Odissi, Danda Nata, Chhau, and Ghumaru are the other popular dance forms.

• Capital: Bhubaneswar.

• Chief Minister: Mohan Charan Majhi

• Governor: Dr. Hari Babu Kambhampati

• Official Language: Odia.

Q99. Answer: (b) International Emmy Award for Best Drama Series

The correct answer is International Emmy Award for Best Drama Series.

Key Points

• Netflix's India Original series "Delhi Crime", helmed by Indian-Canadian director Richie Mehta, has bagged the best drama series honour at the 48th International Emmy Awards.

• The series deconstructs the case of the 23-year-old physiotherapy intern who was abducted and gang-raped in a moving bus on the night of December 16, 2012. The show was released in the year 2019.

• Netflix series Delhi Crime won for Best Actress, Best Direction, Best Drama Series, Best Editing, and Best Original Programme.

Q100. Answer: (c) Abhinav Bindra

The correct answer is Abhinav Bindra.

Key Points

• Abhinav Bindra clinched India's first and only individual Olympic gold medal in 2008.

• The 2008 Olympics were held in Beijing (China).

Additional Information

• The Olympic Games are held in a time period of four years.

• The Olympic games were started in Athens, Greece in 1896.

• The 2020 Olympics games were scheduled to be organized in Tokyo (Japan), but the games got postponed due to COVID-19.

• The Olympic flag has a white background, with five interconnected rings in the center.

• The rings are of Five colors: blue, yellow, black, green, and red.

• These rings are symbolic and represent the five continents of the world.

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