SSC CHSL Previous Paper 17 (Held On: 9 Jul 2019 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2019 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

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.

Students of marketing know that the term Unique Selling Proposition, or USP was developed in the 1940s in the United States. USP is (1) ____ as the true value (2) __ a firm. At the core of (3) __ successful business, there is (4) __ a value proposition, something (5) ____ promoters and the managers are proud of.

Q1. Select the most appropriate option to fill in blank No.1.

(a) regarded
(b) reviewed
(c) referred
(d) repeated

Q2. Select the most appropriate option to fill in blank No.2.

(a) on
(b) by
(c) from
(d) of

Q3. Select the most appropriate option to fill in blank No.3.

(a) large
(b) only
(c) every
(d) sole

Q4. Select the most appropriate option to fill in blank No.4.

(a) always
(b) one
(c) even
(d) ready

Q5. Select the most appropriate option to fill in blank No. 5

(a) the
(b) those
(c) there
(d) this

Q6. Select the most appropriate antonym of the given word.

ARROGANT

(a) rough
(b) uncouth
(c) bold
(d) humble

Q7. Select the most appropriate meaning of the given idiom

at arm's length

(a) checking the length of fabric
(b) avoiding too much closeness
(c) using one's arm to measure length
(d) as close as one can touch

Q8. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

I'm afraid I am not knowing how to swim so I can't join you all that day.

(a) I'm afraid I is not knowing
(b) I'm afraid I do not know
(c) No improvement.
(d) I are afraid I be not knowing

Q9. Select the correctly spelt word

(a) reeciet
(b) receipt
(c) reiceit
(d) reciept

Q10. Select the most appropriate word for the given group of words.

A short statement of a general truth or rule of conduct

(a) Parable
(b) Illustration
(c) Instance
(d) Maxim

Q11. Select the most appropriate word to fill in the blank.

The airline had earlier _____ payment only to those in the high-income bracket but now salaries have dried up for everyone.

(a) demanded
(b) deferred
(c) deployed
(d) decided

Q12. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. For them, it's like a magic carpet, their version of a car.

B. All kids want to be older, so from an early age, they imitate their parents or siblings.

C. While cycling they imagine they are doing adult things or being adults.

D. Bikes offer them a chance to be independent.

(a) BACD
(b) BDAC
(c) DCBA
(d) ADCB

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Q13. Select the most appropriate synonym of the given word.

QUEST

(a) path
(b) destination
(c) search
(d) route

Q14. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

We have been waiting to watch this movie since we first read its review.

(a) We has been waiting
(b) We have being waiting
(c) We are been waiting
(d) No improvement

Q15. Select the correct indirect form of the given sentence.

The interviewer asked Ashok, "Why did you leave that job last month?"

(a) The interviewer asked Ashok why you have left that job the previous month.
(b) The interviewer asked Ashok that why did he leave that job the previous month.
(c) The interviewer asked Ashok that why he leave that job the last month.
(d) The interviewer asked Ashok why he had left that job the previous month.

Q16. Select the most appropriate meaning of the given idiom

Acid test

(a) a malicious way of taking revenge
(b) a test that shows how to harm someone
(c) definitive proof of truth or falsehood
(d) proof that an attack has been made

Q17. Identify the segment in the sentence which contains the grammatical error.

With this heatwave on, we have a terrible weather.

(a) a terrible weather
(b) heat wave on
(c) we have
(d) With this

Q18. Select the most appropriate antonym of the given word.

Advance

(a) move
(b) shift
(c) progress
(d) retreat

Q19. Select the correct passive form of the given sentence.

They will complete the painting in a week's time.

(a) The painting will be completed in a week's time.
(b) The painting is completed in a week's time.
(c) The painting was completed in a week's time.
(d) The painting had been completed in a week's time.

Q20. Select the most appropriate word for the given group of words.

A word formed from the initial letters of other words and pronounced as a word

(a) precise
(b) acronym

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(c) ellipsis
(d) epitome

Q21. Select the most appropriate synonym of the given word.

ORTHODOX

(a) civilized
(b) traditional
(c) habitual
(d) deliberate

Q22. Identify the segment in the sentence which contains the grammatical error.

As you know that I always like to have ice-cream after my dinner.

(a) As you know that
(b) to have ice-cream
(c) I always like
(d) after my dinner

Q23. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. The woman is wearing an evening dress and heavy make up, which is now smeared across her cheeks.

B. But, who is she, and how did she get there?

C. It's seven in the morning and the Bantrys wake to find the body of a young woman in their library.

D. The respectable Bantrys invite Miss Marple to solve the mystery before tongues start to wag.

(a) DCBA
(b) CABD
(c) BACD
(d) CDBA

Q24. Select the correctly spelt word

(a) acknoledgement
(b) accreditted
(c) achievement
(d) accoustomed

Q25. Select the most appropriate word to fill in the blank.

The annual wholesale price index jumped to its highest level last month posing a fresh _____ for policy makers to remain watchful on the price front.

(a) check
(b) choice
(c) chain
(d) challenge

GENERAL INTELLIGENCE

Q26. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

8 : 128

(a) 6 : 82
(b) 12 : 288
(c) 10 : 220
(d) 9 : 152

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

(a) Hormone
(b) Insulin
(c) Thyroxin
(d) Adrenalin

Q28. If AWESOME is coded as 1551645, then how will DIGNITY be coded as?

(a) 4975927
(b) 4974937
(c) 3965927
(d) 4875928

Q29. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

c c _ _ p l o p c _ _ r p l o _ c _ c _ p l _ p c

(a) p r c c p c r r
(b) c r p c p r r o
(c) c r p c p c r o
(d) c r c c p c r o

Q30. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(140, 85, 115)

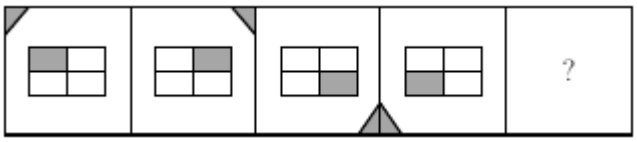
(a) (125, 65, 120)
(b) (65, 50, 90)
(c) (55, 70, 90)
(d) (115, 65, 80)

Q31. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

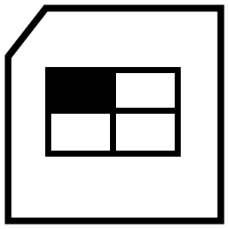
Merchant : Trade

(a) Scientist : Expert
(b) Lawyer : Court
(c) Engineering : Science
(d) Doctor : Treatment

Q32. Select the figure that will come next in the following figure series.

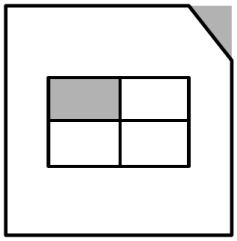


(a)

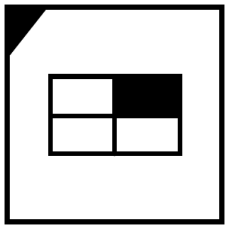


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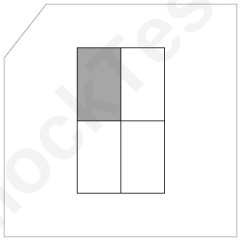
(b)



(c)



(d)



Q33. Two 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 conclusions logically follow(s) from the statements.

Statements:

Some autos are cycles.

All cycles are trucks.

Conclusions:

I. Some trucks are autos.

II. Some trucks are cycles.

III. Some cycles are autos.

(a) Conclusion I and III follow.
(b) All conclusions follow
(c) Only conclusions I and II follow
(d) Only conclusions II and III follow

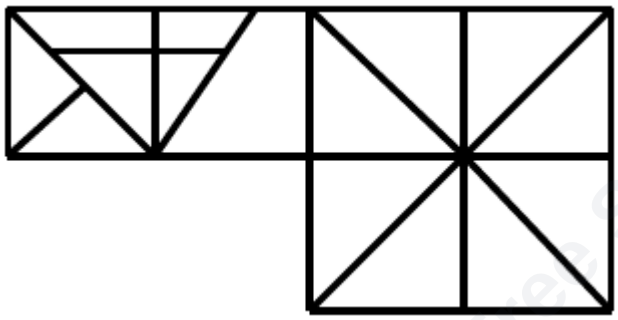
Q34. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

LPCK : QUHP : : HRMT : ?

(a) MVRZ
(b) LWSY
(c) MWRY
(d) NWSY

Q35. How many triangles are present in the given figure?

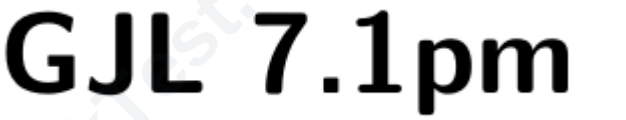
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(a) 27
(b) 28
(c) 25
(d) 26

Q36. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

(a)



(b)



(c)



(d)



Q37. Which two signs should be interchanged in the following equation to make it correct?

612 ÷ 36 – 12 × 88 + 208 = 324

(a) × and –
(b) ÷ and –
(c) • and ÷
(d) ÷ and ×

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Q38. Arrange the following activities in a logical and meaningful order.

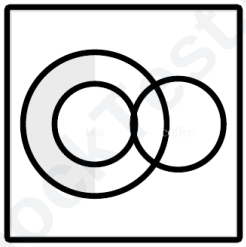
1. Prescribing medications
2. Feeling pain in stomach
3. Meeting doctor
4. Diagnosis by doctor
5. Following medication schedule
6. Recovery from pain

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

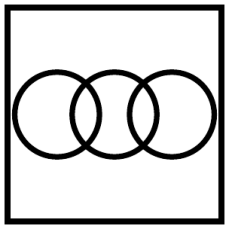
Q39. Select the Venn diagram that best illustrates the relationship between the following classes.

Engineers, Graduates, Males

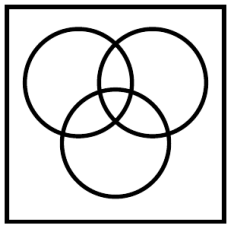
(a)



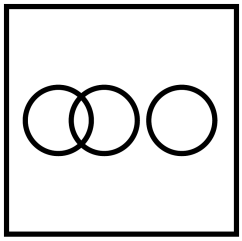
(b)



(c)



(d)



Q40. Three of the following four letter-clusters are alike in a certain way and one is different.

Pick the odd one out.

(a) SXCH
(b) LQVZ
(c) GLQV
(d) CHMR

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Q41. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(64, 7, 27)

(a) (343, 18, 125)
(b) (216, 11, 125)
(c) (127, 15, 161)
(d) (216, 15, 64)

Q42. A + B means 'A is daughter of B'

A – B means 'A is wife of B'

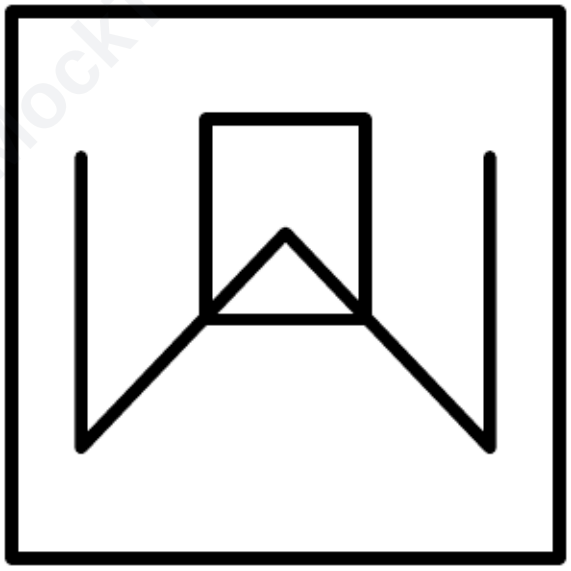
A × B means 'A is husband o f B'

A ÷ B means 'A is father of B'

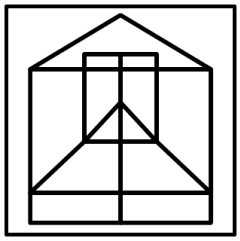
If K – S ÷ J × B + C – Q, then how is Q related to J?

(a) Maternal grandfather
(b) Son
(c) Father-in-law
(d) Father

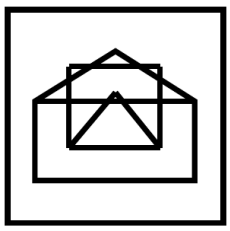
Q43. Select the option in which figure-X is embedded. (Rotation is not allowed)



(a)

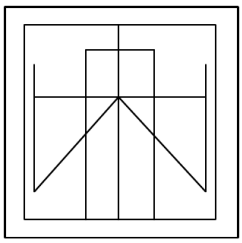


(b)

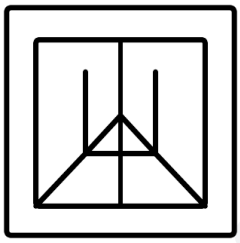


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(c)



(d)



Q44. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

(a) 159
(b) 343
(c) 512
(d) 216

Q45. In a code language, MILITARY is written as ATCVKNKO. How will DISORDER be written as in that language?

(a) TIFSQULH
(b) TGFTQUKF
(c) SHGTRUKF
(d) TGFTSTLF

Q46. Which number will replace the question mark (?) in the following series?

52, 54, 57, 62, 69, ?

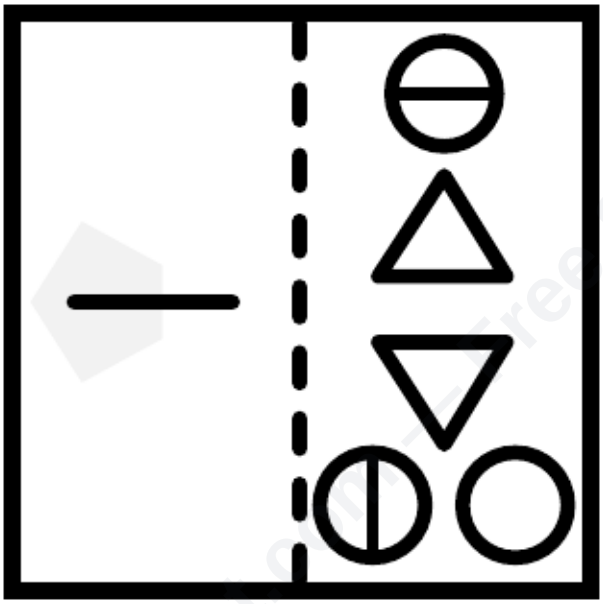
(a) 95
(b) 90
(c) 80
(d) 85

Q47. ‘Pain’ is related to ‘Agony’ in the same way as ‘Angry’ is related to ‘_____’.

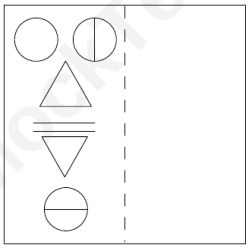
(a) Furious
(b) Bitterness
(c) Ecstasy
(d) Grandiosity

Q48. A figure of transparent sheet with a pattern is given below. Select the option that shows how the pattern would appear when the transparent sheet is folded at the dotted line.

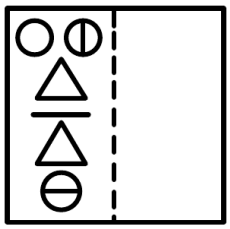
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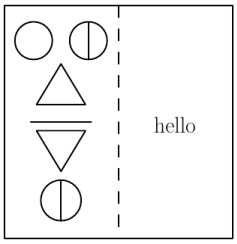
(a)



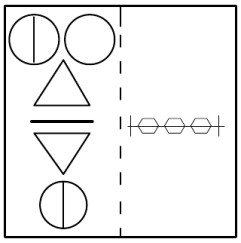
(b)



(c)



(d)

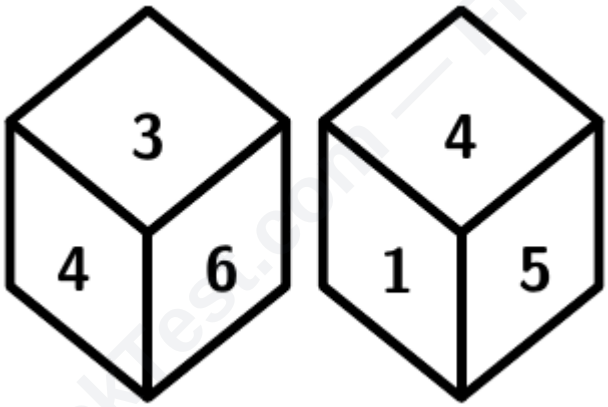


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Q49. A total sum of Rs. 209 is distributed among three friends A, B and C in such a way that A gets six times rupees than B, C gets 4 times rupees than B. How many rupees does A get?

(a) 115
(b) 113
(c) 114
(d) 112

Q50. Two different positions of the same dice are shown below, the six faces of which are numbered 1 to 6. Find the number opposite to the face having 2.



(a) 1
(b) 3
(c) 6
(d) 4

QUANTITATIVE APTITUDE

Q51. A man bought three articles for Rs. 3,000 each. He sold the articles respectively at 15% profit, 10% profit and 15% loss. The total percentage profit/loss he earned is

(a) 10% loss
(b) No profit no loss
(c) 10/3% % profit
(d) 10/3% % loss

Q52. The distance between the centres of two circles of radius 2.5 cm each is 13 cm. The length (in cm) of a transverse common tangent is:

(a) 10
(b) 12
(c) 8
(d) 6

Q53. If $7(\text{cosec}^2 55° - \tan^2 35°) + 2\sin 90° - y\tan^2 52° \tan^2 38° = y/2$~ then the value of y is:

(a) 6
(b) 2
(c) 1
(d) 3

Q54. If $x = 2 + \sqrt{5}$ then the value of $x^3 + x^{(-3)}$ is:

(a) $36\sqrt{5}$
(b) $40\sqrt{5}$
(c) $46\sqrt{5}$
(d) $34\sqrt{5}$

Q55. If $a^3 – b^3 = 899$ and $a – b = 31$, then $(a – b)^2 + 3ab$ is equal to:

(a) 29
(b) 35
(c) 16
(d) 31

Q56. ABCD is a cyclic quadrilateral, such that AB is a diameter of the circle circumscribing it and angle ADC = 126°. angle BAC is equal to:

(a) 72°
(b) 36°
(c) 18°
(d) 24°

Q57. If each side of rectangle is decreased by 11%, then its area will decrease by:

(a) 26.78%
(b) 21.69%
(c) 20.79%
(d) 13.13%

Q58. Let triangle ABC ~ triangle QPR and (ar(Δ ABC))/(ar(Δ PQR))=4/25. If AB = 12 cm, BC = 8 cm and AC = 10 cm, then QR is equal to:

(a) 15
(b) 18
(c) 25
(d) 20

Q59. If x^4 + x^(-4) = 194, (x > 0), then the value of $(2x – 4)^2$ is

(a) 16
(b) 15
(c) 20
(d) 12

Q60. The compound interest on a certain sum of money at 21% for 2 years is Rs. 6,961.5. Its simple interest (in Rs.) at the same rate and for the same period is:

(a) Rs. 6,300
(b) Rs. 6,500
(c) Rs. 6,000
(d) Rs. 6,750

Q61. If $\cos\theta = 4x \sim \text{and} \sim \sin\theta = 4/x (x \neq 0)$, then the value of $(x^2+1/(x^2))$ is:

(a) 1/16
(b) 1/2
(c) 1/3
(d) 1/4

Q62. A dealer buys an article marked at Rs. 30000 with two successive discounts of 20% and 5%. He spends Rs. 1200 on repairs and sells it for Rs. 30000, what is his profit/loss percent?

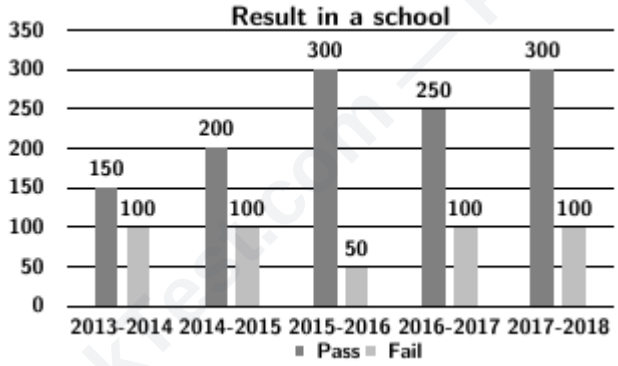
(a) 20% loss
(b) 25% profit
(c) 25% loss
(d) 20% profit

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Q63. The average age of fifteen person is 32 years. If two more persons are added then the average is increased by 3 years. The new person have an age difference of 9 years between them. The age (in years) of the younger among the new persons is:

(a) 58
(b) 53
(c) 62
(d) 50

Q64. The given Bar Graph presents the results in terms of the number of students in a school for the five academic years, 2013–2014 to 2017–2018.



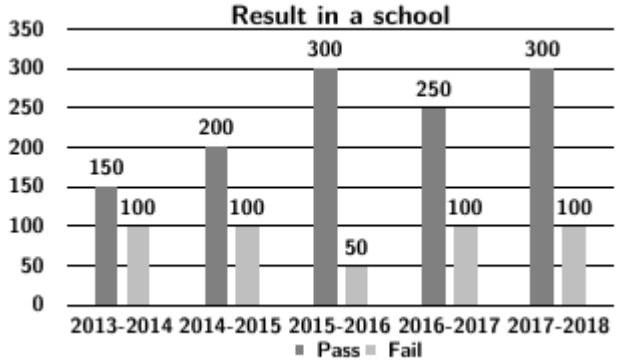
In which year the percentage increase in total number of passed students is the lowest in comparison to its previous academic year?

(a) 2016–2017
(b) 2014–2015
(c) 2015–2016
(d) 2017–2018

Q65. The sum of the salaries of A and B is Rs. 42,000. A spends 75% of his salary and B spends 90% of his salary. Now their savings are the same. What is B's salary (in Rs.)?

(a) Rs. 30,000
(b) Rs. 12,600
(c) Rs. 15,000
(d) Rs. 18,000

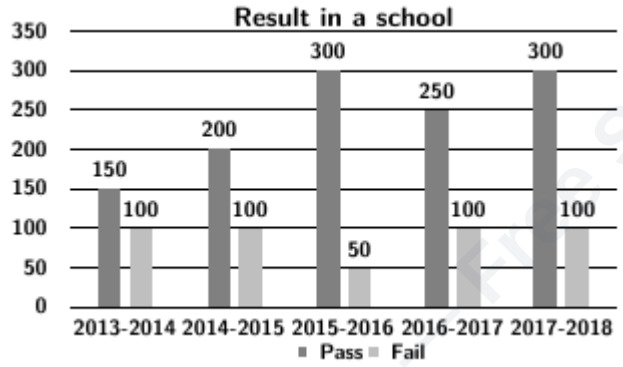
Q66. The given Bar Graph presents the results in terms of the number of students in a school for the five academic years, 2013–2014 to 2017–2018.



What is the average number of students who passed in the five academic years?

(a) 250
(b) 225
(c) 300
(d) 240

Q67. The given Bar Graph presents the results in terms of the number of students in a school for the five academic years, 2013–2014 to 2017–2018.



What is the approximate percentage (correct to nearest integer) of the students who failed during the five academic years taken together?

(a) 27%
(b) 21%
(c) 29%
(d) 22%

Q68. A and B can complete a piece of work in 15 days and 10 days respectively. They got a contract to complete the work for Rs. 75000. The share of A (in Rs.) in the contracted money will be:

(a) Rs. 45,000
(b) Rs. 40,000
(c) Rs. 30,000
(d) Rs. 35,000

Q69. If cos x=(-√3)/2~and~π <x<3π/2, then the value of 2cot²x+3cosec²x is:

(a) 16
(b) 8
(c) 14
(d) 18

Q70. The simplified value of (46-3/4~of~32-6)/(11+3/4~of~(34-6))

(a) 1
(b) 1/7
(c) 1/4
(d) 1/2

Q71. The ratio between the speeds of two trains is 2 : 5. If the first train runs 250 km in 5 h, then the difference between the speeds (in km/h) of both the trains is:

(a) 150
(b) 75
(c) 180
(d) 65

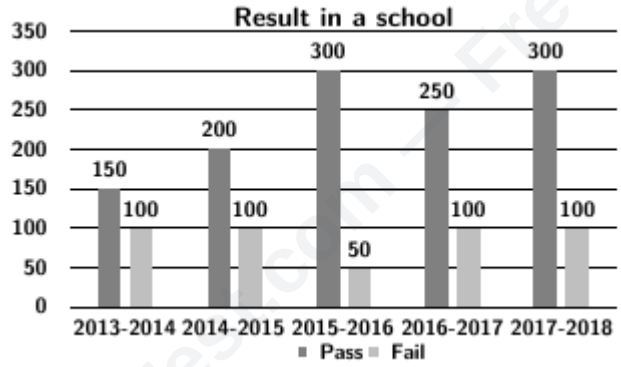
Q72. In ΔABC, angle A = 52°. Its side AB and AC are produced to the points D and E respectively. If the bisectors of the angle CBD and angle BCE meet at point O, then angle BOC is equal to:

(a) 106°
(b) 64°
(c) 16°
(d) 32°

Q73. If the seven digit number 64x29y6 (x > y) is divisible by 72, what is the value of (2x – 3y)?

(a) 9
(b) 3
(c) 7
(d) 13

Q74. The given Bar Graph presents the results in terms of the number of students in a school for the five academic years, 2013–2014 to 2017–2018.



In which academic year the difference between the number of students passed and that of those failed is the lowest?

(a) 2016–2017
(b) 2015–2016
(c) 2013–2014
(d) 2014–2015

Q75. A earns Rs. 640 per day and works for 8 hours per day. B earns Rs. 360 per day and works for 6 hours per day. The ratio of per day wages of B to that of A is:

(a) 4 : 5
(b) 9 : 16
(c) 16 : 19
(d) 5 : 4

GENERAL AWARENESS

Q76. In economics, IPO stands for _____.

(a) Initial Public Offering
(b) Indented Performance Objective
(c) Inclusive Property Offer
(d) Inventory Performance Output

Q77. When is World Hypertension Day celebrated?

(a) 17^(th) May
(b) 23^(rd) January
(c) 14^(th) April
(d) 16^(th) February

Q78. The book 'Delhi is not far' is written by which of the following authors?

(a) Arundhati Roy
(b) Khuswant Singh
(c) Anita Desai
(d) Ruskin Bond

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Q79. Who among the following actors/actresses won the Global Indian Icon award at the 2^(nd) Annual UK India Awards, 2018?

(a) Shah Rukh Khan
(b) Shilpa Shetty
(c) Vivek Oberoi
(d) Madhuri Dixit

Q80. What was India's rank in the 2019 Kids Rights Index?

(a) 70^(th)
(b) 117^(th)
(c) 123^(th)
(d) 102^(th)

Q81. Dhenka is a well-known musical instrument of which one of the following Indian state?

(a) Kerala
(b) Odisha
(c) Maharashtra
(d) Goa

Q82. The term 'address' is associated with which of the following sports?

(a) Cricket
(b) Hockey
(c) Swimming
(d) Golf

Q83. Humpy Koneru' is associated with which of the following sports?

(a) Badminton
(b) Swimming
(c) Chess
(d) Cricket

Q84. Which of the following teams won the 2019 IPL?

(a) Chennai Super Kings
(b) Kolkata Knight Riders
(c) Delhi Capitals
(d) Mumbai Indians

Q85. Who among the following became the first woman fighter pilot to qualify to undertake combat missions on a fighter jet?

(a) Ujjwala Raut
(b) Mohana Singh
(c) Bhawana Kanth
(d) Anupama Banerjee

Q86. Which article of the Constitution of India provisions for reservations of seats for scheduled castes and scheduled tribes in the House of People?

(a) Article 335
(b) Article 321
(c) Article 330
(d) Article 325

Q87. Who was the first woman to become the governor of an Indian state?

(a) Sarojini Naidu
(b) Vijay Laxmi Pandit
(c) Aruna Asaf Ali

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(d) Krishna Hutheesing

Q88. In which year was the Chicago (USA) Conference of World Religions held that included Swami Vivekananda's talk on religion as one of its highlights?

(a) 1978
(b) 1889
(c) 1882
(d) 1893

Q89. Sri Lanka is situated off the southeast coast of India across the Palk Strait and Gulf of _____.

(a) Mannar
(b) Kutch
(c) Khambhat
(d) Cambay

Q90. The total number of living organisms, both plants and animals, in a given area is called:

(a) Buffers
(b) Biomass
(c) Barrage
(d) Batholith

Q91. Who was the first woman to win the Nobel Prize in Physics in 1903?

(a) Marie Curie
(b) Jane Addams
(c) Alva Myrdal
(d) Jody Williams

Q92. Raja Sansi International Airport is located in:

(a) Lucknow
(b) Raipur
(c) Amritsar
(d) Udaipur

Q93. The pigment that gives human skin, hair and eyes their colour is called:

(a) Melanin
(b) Phthalocyanine
(c) Quinacridone
(d) Alizarin

Q94. Who among the following designed the famous structure the Gateway of India?

(a) George Wittet
(b) Edward Lyutens
(c) Alexander Thompson
(d) James Miller

Q95. A screen in a software program that permits the user to view several programs at one time is called a:

(a) Spreadsheet
(b) Word processor
(c) Shareware
(d) Window

Q96. As per the Census of 2011 which district of India is the most populous?

(a) Thane, Maharashtra
(b) Gaziabad, Uttar Pradesh
(c) Churu, Rajasthan

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(d) Theni, Tamil Nadu

Q97. The first Cotton Mill in India was set up as a spinning mill in 1854 in _____.

(a) Calcutta
(b) Bombay
(c) Madaras
(d) Delhi

Q98. Which of the following is a fat-soluble vitamin that plays a role in blood clotting, bone metabolism and regulating blood calcium levels.

(a) Vitamin B
(b) Vitamin A
(c) Vitamin K
(d) Vitamin C

Q99. For economists, _____ refers to the amount of a product or service that people are both willing and able to buy.

(a) Income
(b) Price
(c) Demand
(d) Supply

Q100. _____ is the smallest unit of data in a computer.

(a) Gigabyte
(b) Terabyte
(c) Bit
(d) Byte

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) regarded

The correct answer is option 1 i.e. regarded.
regarded- consider or think of in a specified way.
reviewed- assess (something) formally with the intention of instituting change if necessary.
referred- mention or allude to.
repeated- done or occurring again several times in the same way.
Here, regarded is the right option contextually.
So, the chosen option is correct.

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Q2. Answer: (d) of

The correct answer is option is 4 i.e. of.

Whenever we have to show relation or a sense of belonging we use OF.

As here we are showing the relation of the firm with the value, we have to use OF in the given blank.

So, the chosen answer is correct.

Q3. Answer: (c) every

The correct answer is option 3 i.e. Every.

As is clear from the meaning of the passage, the core of the business is value proposition, and this policy is applicable to all the businesses.

This meaning can be imparted by only one of the options that is option 3.

So the chosen option is correct.

Q4. Answer: (a) always

The correct answer is 1 i.e. Always.

Only an adverb can take that place and among the options, we have only two adverbs always and even.

Contextually, option 1 suits the given blank space.

Q5. Answer: (a) the

The correct answer is option 1 i.e. The.

'Those' and 'this' will not be the answer as these are pronouns and refer to nouns mentioned previously. But there are no mentions of the promoters and the managers in the previous sentences.

'There' will not be the answer as it is an adverb.

Option 1 i.e. 'the' suits the blank space grammatically and contextually.

Q6. Answer: (d) humble

The correct answer is option 4 i.e. humble.

ARROGANT- having or revealing an exaggerated sense of one's own importance or abilities.

rough- having an uneven or irregular surface; not smooth or level.

uncouth- lacking good manners, refinement, or grace.

bold- (of a person, action, or idea) showing a willingness to take risks; confident and courageous.

humble- having or showing a modest or low estimate of one's importance.

Based on the mention meaning it can be said that only option 4 coveys the opposite meaning of the given word.

Q7. Answer: (b) avoiding too much closeness

The correct answer is option 2 i.e. avoiding too much closeness.

The meaning of the given idiom is- away from the body, with one's arm fully extended.

The meaning of the idiom conveys the same meaning as written in option 2.

Q8. Answer: (b) I'm afraid I do not know

The correct answer is option 2 i.e. I'm afraid I do not know.

The verb Know never comes in the continuous form of the verb as it is verb of perception.

We need to keep it in other form of the verb for making the use correct.

Option 2 improves the sentence grammatically and contextually.

Q9. Answer: (b) receipt

The correct answer is option 2 i.e. receipt.

receipt- the action of receiving something or the fact of its being received.

Q10. Answer: (d) Maxim

The correct answer is option 4 i.e. Maxim.

Look at the meaning of the given options:

• parable- a simple story used to illustrate a moral or spiritual lesson, as told by Jesus in the Gospels.

• illustration- a picture illustrating a book, newspaper, etc.

• instance- an example or single occurrence of something.

• maxim- a short, pithy statement expressing a general truth or rule of conduct.

Hence from the above-given meanings, we find that the correct answer is option 4 i.e. maxim.

Q11. Answer: (b) deferred

The correct answer is option 2 i.e. deferred.

demanded- ask authoritatively or brusquely.

deferred- put off (an action or event) to a later time; postpone.

deployed- move (troops or equipment) into position for military action.

decided- (of a quality) definite; unquestionable.

Based on the meaning mentioned above only option 2 suits the passage grammatically and contextually.

Q12. Answer: (b) BDAC

The correct answer is 2 i.e. BDAC.

As A, D and C contain pronoun in it, this can not be the first sentence.

Now it is clear that sentence will start with the Option B and we have two options starting with B.

lets go ahead, After B, A can not come as there is another pronoun in the sentence IT'S.

So, the correct option is 2.

BDAC is arrangement here.

Q13. Answer: (c) search

• The correct answer is Option 3.

• The meaning of the given words:

• Quest: To seek a goal; to search for, ambitious.

• Path: A course taken, track.

• Destination: The act of destining or appointing; the place set for the end of a journey.

• Search: An attempt to find something.

• Route: A course or way.

• Therefore, out of given options the best alternative is 'Search'.

Q14. Answer: (d) No improvement

• The correct answer is Option 4 i.e. 'No improvement'.

• The given sentence is in present perfect tense which refers to an action that began at sometime in the past and is still in progress. In such cases we use 'have been + v + ing' form to represent the present perfect tense.

Q15. Answer: (d) The interviewer asked Ashok why he had left that job the previous month.

• The correct answer is Option 4.

• Given active sentence is in interrogative form therefore interrogative will be changed to an assertive sentence. To change the sentence into an indirect sentence. Simple past will be changed to past perfect tense, 'last month' will be changed to 'previous month'.

• Therefore, all these conditions are satisfied only in option 4.

Q16. Answer: (c) definitive proof of truth or falsehood

The correct answer is Option 3

Explanation-

• The meaning of the given idiom 'acid test' - it is a situation or event which provides definitive proof of whether something is true or false, right or wrong, good or bad, effective or ineffective.

• Therefore only option 3 'definitive proof of truth or falsehood' gives the meaning of the given idiom.

Q17. Answer: (a) a terrible weather

The correct answer is a terrible weather.

Key Points

• The error lies in the usage of the indefinite article 'a' with an uncountable noun 'weather'.

• The word "weather" does not take the indefinite article "a" before it,

• Remove article 'a' to make the sentence grammatically correct.

Correct sentence: With this heatwave on, we have terrible weather.

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Q18. Answer: (d) retreat

The correct answer is Option 4.

Explanation:The meaning of the given words:

• Advance: To promote or advantage, to move forward.

• Move: To change place or posture, to act.

• Shift: A slight movement or change.

• Progress: Movement or advancement.

• Retreat: The act of pulling back.

Therefore, out of given options only option 4 is the antonym and all other options are the synonyms of the given word.

Q19. Answer: (a) The painting will be completed in a week's time.

• The correct answer is Option 1.

• In active voice, the subject performs the action denoted by the verb.

• On the other hand, a sentence is in the passive voice when the subject of the sentence is acted upon by the verb.

• When changing from active voice to passive, we do not change the tense of the given sentence.

• Except Option 1 all other options are in different tense. Therefore option 1 is the correct answer.

Q20. Answer: (b) acronym

The correct answer is Option 2

Look at the meaning of the given options-

• Precise: exact, accurate.

• Acronym: An abbreviation formed by the beginning letters or syllables of other words.

• Ellipsis: The omission of word or phrase.

• Epitome: A representative example, a brief summary of a text.

Hence from the above-given meanings, we find that the correct answer is option 2 i.e. acronym.

Q21. Answer: (b) traditional

The correct answer is Option 2.

Explanation:The meaning of the given words:

• Orthodox: Conforming to the accepted, traditional doctrines.

• Civilized: Having a highly developed society or culture.

• Traditional: communicated from ancestors.

• Habitual: Behaving in a regular manner.

• Deliberate: Intentional, done on purpose.

Therefore, out of given options, traditional is the most similar word to the given word.

Q22. Answer: (a) As you know that

• The correct answer is Option 1.

• In the given sentence, the preposition 'as' and the pronoun 'that' are used together which is grammatically error.

• Therefore, remove 'that' to make the sentence grammatically correct.

Q23. Answer: (b) CABD

The correct answer is Option 2.

• Sentence 'c' is the independent sentence, hence, it will be the first sentence.

• Hence, option 1 and 3 are eliminated.

• Sentence 'c' will be followed the sentence 'a' because sentence 'c' talks about a woman and sentence 'a' talks about the same woman.

• This combination is given in only option 2, hence, it will be the correct answer.

Q24. Answer: (c) achievement

The correct answer is option 3.

The correct spelling and meaning of the given words:

• Acknowledgement: to admit the knowledge of, recognition.

• Accredited: Commissioned, licensed, given official approval after meeting criteria.

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• Achievement: The act of achieving or performing,
• Accustomed: Familiar with something through repeated experience.

Q25. Answer: (d) challenge

• The correct answer is option 4.
• check means an inspection.
• choice: an option, a decision.
• chain: a series of interconnected links.
• challenge: an attempt to take possession; a tackle.
• The above sentence is talking about the increase in the price which can be a challenge for policy makers. Therefore, the word 'challenge' fits the blank correctly.

Q26. Answer: (b) 12 : 288

The pattern followed here is:
$8^2 + 8^2 = 64 + 64 = 128$
Similarly,
122 + 122 = 144 + 144 = 288
Hence, the correct answer is 288.

Q27. Answer: (a) Hormone

Insulin, thyroxin, and adrenalin are different types of hormones.
Hence, hormone is the odd one among the given alternatives.

Q28. Answer: (a) 4975927

The pattern followed here is:

Letter	Positional value	Sum of the digits
A	1	1
W	23	2 + 3 = 5
E	5	5
S	19	1 + 9 = 10 → 1
O	15	1 + 5 = 6
M	13	1 + 3 = 4
E	5	5

Similarly,

Letter	Positional value	Sum of the digits
D	4	4
I	9	9
G	7	7
N	14	1 + 4 = 5
I	9	9
T	20	2 + 0 = 2
Y	25	2 + 5 = 7

Hence, the correct answer is 4975927.

Q29. Answer: (d) c r c c p c r o

Let's check each option:
1) c c p r p l o p c c c r p l o p c c c r p l r p c → doesn't follow a pattern
2) c c c r p l o p c p c r p l o p c r c r p l o p c → doesn't follow a pattern

3) c c c r p l o p c p c r p l o p c c c r p l o p c → doesn't follow a pattern

4) c c c r p l o p / c c c r p l o p / c c c r p l o p c → follows a pattern

Hence, the correct answer is c r c c p c r o.

Q30. Answer: (d) (115, 65, 80)

The pattern followed here is:

(140, 85, 115) → 140 ÷ 5 = 28 and 115 ÷ 5 = 23; (28 + 23) ÷ 3 = 51 ÷ 3 = 17 × 5 = 85 the middle term.

Similary,

(115, 65, 80) → 115 ÷ 5 = 23 and 80 ÷ 5 = 16; (23 + 16) ÷ 3 = 39 ÷ 3 = 13 and 13 × 5 = 65 the middle term.

Hence, the correct answer is (115, 65, 80)

Q31. Answer: (d) Doctor : Treatment

A merchant trades in commodities.

Similarly, a doctor treats patients.

Hence, the correct answer is Doctor : Treatment

Q32. Answer: (a) [figure]

In the given series, the shaded part of the rectangle is moving in the clockwise direction.

Also, the small triangle in the corner is moving in the clockwise direction and the triangle is shaded at alternate steps.

Therefore, we can see that the next figure will be exactly similar to the first figure in the series.

Hence, the figure in option 1 is the correct answer.

Q33. Answer: (b) All conclusions follow

The least possible Venn diagram is given below:

Conclusions:

I. Some trucks are autos → True (Those autos which are cycles are trucks.)

II. Some trucks are cycles → True (all cycles are trucks).

III. Some cycles are autos → True (some autos are cycles.)

Hence, the correct answer is 'all conclusions follow'.

Q34. Answer: (c) MWRY

The pattern followed here is:

Similarly

Hence, the correct answer is MWRY.

Q35. Answer: (c) 25

The triangles are

In AHEC,

AGI, GHI, AGH, AGB, BGC, AGC, CGD, DGE, CGE, EGF, FGH, EGH, AEH, CEH, CAH, ACE

In JMHI,

KMR, KQO, KOP, KMN, KNR, KQP, JLM, JLK, JMK

The total no. of triangles are = 16 + 9 = 25

Hence, the correct answer is 25.

Q36. Answer: (a) [figure]

The mirror image of the question figure is as follows:

Hence, the correct answer is the figure in option 1.

Q37. Answer: (a) × and –

Given equation: 612 ÷ 36 – 12 × 88 + 208

After Interchanging × and –

612 ÷ 36 × 12 - 88 + 208

= 17 × 12 - 88 + 208

= 204 – 88 + 208

= 412 – 88

= 324

Hence, the correct answer is × and –.

Q38. Answer: (c) 2, 3, 4, 1, 5, 6

The sequence in which a patient seeks doctor's treatment and recovers is as follows:

2. Feeling pain in stomach

3. Meeting doctor

4. Diagnosis by doctor

1. Prescribing medications

5. Following medication schedule

6. Recovery from pain

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

Q39. Answer: (c) [figure]

Some males are graduates as well as engineers.

Hence, the correct answer is the figure in option 3.

Mistake PointsThere are engineers with an engineering diploma. Also, there are other engineers who haven't received formal education/degree.

One must know that not everyone who is an engineer today has completed a graduate degree in engineering.

Q40. Answer: (b) LQVZ

Let's check each option:

1) SXCH → S + 5 = X; X + 5 = C; C + 5 = H

2) LQVZ → L + 5 = Q; Q + 5 = V; V + 4 = Z

3) GLQV → G + 5 = L; L + 5 = Q; Q + 5 = V

4) CHMR → C + 5 = H; H + 5 = M; M + 5 = R

Hence, the correct answer is LQVZ.

Q41. Answer: (b) (216, 11, 125)

The pattern followed here is:

(64, 7, 27) → 64 = 4^3 and 27 = 3^3; 4 + 3 = 7

Similarly,

(216, 11, 125) → 216 = 63 and 125 = 53; 6 + 5 = 11

Hence, (216, 11, 125) is the correct answer.

Q42. Answer: (c) Father-in-law

Using the symbols in the below table, we can draw the family tree.

	A is			
Symbols	•	•	×	÷
Meaning	daughter	Wife	Husband	father
	Of B			

K – S ÷ J × B + C – Q means “K is wife of S, S is father of J, J is husband of B, B is daughter of C and C is wife of Q.

Hence, Q is the father-in-law of J

Q43. Answer: (a) [figure]

The question figure is embedded in the following figure:

Hence, the correct answer is the figure in option 1.

Q44. Answer: (a) 159

The pattern followed here is:

159 = not a cube of any number.

343 = 7^3

512 = 8^3

$216 = 6^3$

Hence, the correct answer is 159.

Q45. Answer: (b) TGFTQUKF

The pattern followed here is:

Similarly,

Hence, the correct answer is TGFTQUKF.

Q46. Answer: (c) 80

The pattern followed here is:

Here, the differences 2, 3, 5, 7 and 11 are consecutive prime numbers in increasing order.

Hence, the correct answer is 80.

Q47. Answer: (a) Furious

Pain is a synonym for agony.

Similarly, furious is a synonym for angry.

Hence, the correct answer is furious.

Q48. Answer: (a) [figure]

When folded, the transparent sheet will look the below figure:

Hence, the correct answer is the figure in option 1.

Q49. Answer: (c) 114

Given that:

A + B + C = 209 ..... (i)

A = 6B .....(ii)

C = 4B .....(iii)

From (i), (ii) and (iii),

6B + B + 4B = 209

=>11B = 209

=> B = 209 ÷ 11

=> B = 19

Therefore, A = 6 × 19 = 114

Hence, A gers 114 rupees.

Q50. Answer: (d) 4

3 and 6 are adjacent to 4 in the first position of the dice.

1 and 5 are adjacent to 4 in the second position of the dice.

Now, the only number left is 2.

Thus, 4 must be opposite to 2.

Hence, the number opposite to the face having 2 is 4.

Q51. Answer: (c) 10/3% % profit

Calculation:

First articles C.P. = Rs. 3000

First articles S.P. = 3000 × (115/100) = Rs. 3450.

Second articles C.P. = Rs. 3000

Second articles S.P. = 3000 × (110/100) =. Rs. 3300

Third articles C.P. = Rs. 3000

Third articles S.P. = 3000 × (85/100) = Rs. 2550

Total C.P. = 3000 × 3 = Rs. 9000

Total S.P. = 3450 + 3300 + 2550 = 9300

Profit percentage = (300/9000) × 100 = 10/3%

Therefore The correct answer is 10/3%.

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Shortcut Trick

Cost price is the same

=> 3000(15% + 10% - 15%) = 300

Total cost price of 3 articles = 3 × 3000 = 9000

=> Profit percentage = (300/9000) × 100 = 10/3%

Therefore The total profit gain on the article (10/3) %.

Q52. Answer: (b) 12

Given:

The distance between the centres (D) = 13 cm

Radius of circle = 2.5 cm

Calculation:

The length (in cm) of a transverse common tangent =√{(D)² − (R1 + R2)²}

=> √((13)² − (2.5 + 2.5)²)

=> √(169 − 25)

=> √144

=> 12 cm

Therefore The correct answer is 12 cm

Q53. Answer: (a) 6

Given:

7(cosec255 - tan235)+ 2 × sin 90 - y × tan252 tan238 = y/2

Calculation:

=> 7(cosec²55 - tan²35)+ 2 × sin 90 - y × tan²52 tan²38 = y/2

=> 7(cosec255 - cot255)+ 2 × sin 90 - y × tan252 tan238 = y/2

=> 7 × 1 + 2 × 1 - y tan² 52 × 1/tan² 52 = y/2

=> 9 – y = y/2

=> 3y/2 = 9

=> y = 6

Therefore The correct answer is 6.

Q54. Answer: (d) 34√5

Given:

=> x = 2 + √5

Formula used:

(a + b)³ = a³ + b³ + 3ab (a + b)

Calculation:

=> x = √5 + 2

By componendo and dividendo

=> 1/x = √5 - 2

Now,

=> x + 1/x = 2 + √5 + √5 - 2 = 2√5

On cubing both sides,

=> (x + 1/x)³ = (2√5)³

=> x³ + (1/x³) + 3(x + 1/x) = 40√5

=> x³ + (1/x³) + 3(2√5) = 40√5

=> x³ + (1/x³) = 40√5 − 6√5

=> x³ + 1/x³ = 34√5

Therefore The correct answer is 34√5.

Shortcut TrickConcept used:

=> x + 1/x = p

=> x3 + 1/x3 = p³ - 3p

Calculation:

=> x = √5 + 2

By componendo and dividendo

=> 1/x = √5 - 2

Now,

=> x + 1/x = 2 + √5 + √5 - 2 = 2√5

=> x + 1/x = 2√5

=> x3 + 1/x3 = (2√5)³ - 3 × 2√5

=> x3 + 1/x3 = 40√5 - 6√5

=> x3 + 1/x3 = 34√5

Therefore The correct answer is 34√5.

Q55. Answer: (a) 29

Given:

=> a3 - b3 = 899

=> a - b = 31

Formula used:

$(a - b)^2 = a^2 + b^2 - 2ab$

a3 - b3 = (a - b) (a2 + b2 + ab)

Calculation:

=> $a^3 - b^3 = (a - b) \times (a^2 + b^2 + ab)$

=> $a^3 - b^3 = (a - b) \times (a^2 + b^2 + ab + 2ab - 2ab)$

=> $a^3 - b^3 = (a - b) \times ((a^2 + b^2 - 2ab) + 3ab)$

=> $a^3 - b^3 = (a - b) \times ((a - b)^2 + 3ab)$

Putting the values,

=> $(a^3 - b^3) / (a - b) = (a - b)^2 + 3ab$

=> $899/31 = (a - b)^2 + 3ab$

=> $(a - b)^2 + 3ab = 29$

Therefore The correct answer is 29.

Q56. Answer: (b) 36°

Given:

ABCD is a cyclic quadrilateral.

angle ADC = 126°

Calculation:

angle ADC + angle ABC = 180°(sum of the opposite angles in a cyclic quadrilateral is 180°)

angle ADC + angle ABC = 180°

=> 126° + angle ABC = 180°

=> 126° + angle ABC = 180°

=> angle ABC = 180 − 126°

angle ABC = 54°

Since, angle ACB

angle ACB is an angle in a semi–circle.

angle ACB = 90°

In ΔABC, angle BAC + angle ACB + angle ABC = 180°

ΔABC, angle BAC + angle ACB + angle ABC = 180° [by angle sum property of a triangle]

=> angle BAC = 90° + 54° = 180°

=> angle BAC = 90° + 54° = 180°

=> angle BAC = 180° − 144° = 36°

Therefore The correct answer is 36°

Q57. Answer: (c) 20.79%

Calculation:

According to the question:

Length	100	89
Breadth	100	89
Area	10000	7921

Percentage change in area of rectangle
=> (2079/10000) × 100 = 20.79%
Therefore The correct answer is 20.79%.

Q58. Answer: (c) 25

Given:
triangle ABC ~ triangle QPR
(ar(Δ ABC))/(ar(Δ PQR))=4/25
Calculation:
triangle ABC ~ triangle QPR
In similar triangles, the ratio of their corresponding sides are equal:
=> (AC/QR)2 = (ar(Δ ABC))/(ar(Δ PQR))
=> (AC/QR)2 = 4/25
=> AC/QR = 2/5
=> 10/QR = 2/5
=> QR = 25
Therefore The correct answer is 25 cm.

Q59. Answer: (d) 12

Given:
x4 + x-4 = 194
Formula used:
$(a + b)^2 = a^2 + b^2 + 2ab$
Calculation:
x^4 + 1/x^4 = 194 ----(1)
=> $(x^2 + 1/x^2)^2 – 2 = 194$
=> $(x^2 + 1/x^2)^2 = 194 + 2$
=> $x^2 + 1/x^2 = \sqrt{196}$
=> $x^2 + 1/x^2 = 14$ ----(2)
=> $(x + 1/x)^2 – 2 = 14$
=> $(x + 1/x)^2 = 14 + 2$
=> $(x + 1/x) = \sqrt{16}$
=> x + 1/x = 4
=> $x^2 + 1 = 4x$
=> $x^2 – 4x = –1$ ----(3)
We have to find the value of $(2x – 4)^2$
$4 (x – 2)^2$
=> $4 (x^2 – 4x + 4)$
=> 4 (–1 + 4), from (3)
=> 12
Therefore The correct answer is 12.
Shortcut TrickConcept used:
=> x4 + 1/x4 = p
=> x2 + 1/x2 = √{p + 2}
Calculation:
According to the question:
=> x4 + x-4 = 194
=> x2 + 1/x2 = √{194 + 2}

=> x2 + 1/x2 = 14

Now,

=> x + 1/x = √{14 + 2}

=> x + 1/x = √16 = 4

=> $x^2 + 1 = 4x$

=> x2 + 4x = - 1 ------(1)

So, $(2x – 4)2 = (2)^2 (x - 2)^2$

=> 4 (x – 2)2

=> 4 (x2 – 4x + 4)

=> 4 (–1 + 4), from (1)

=> 12

Therefore The correct answer is 12.

Q60. Answer: (a) Rs. 6,300

Given:

C.I = Rs. 6,961.5; rate = 21%; time = 2 yrs

Formula used:

Simple interest = (P × R × T)/100

Compound interest = $P [(1 + r/100)^2 – 1]$

Calculation:

=> $6,961.5 = P × [(1 + 21/100)^2 – 1]$

=> $6,961.5 = P × [(121/100)^2 – 1]$

=> 6,961.5 = P × (14641 – 10000)/10000

=> 6,961.5 = P × (4641/10000)

=> P = (6, 961.5 × 10000)/4641 = 15000

So, S.I = 15000 × 21 × 2/100 = 6300

=> S.I = Rs. 6300

Therefore The correct answer is Rs. 6300.

Shortcut TrickCalculation:

Effective rate of 2 yrs at 21% = 46.41%

So, P × 46.41 % = 6961.5

=> P = 6961.5/46.41 % = 15000

Now, S.I = (P × R × T)/100

=> S.I = (15000 × 21 × 2)/100

=> S.I = 6300

Therefore The correct answer is Rs. 6300.

Q61. Answer: (a) 1/16

Given:

cos = 4x and sin θ = 4x, x ≠ 0

Concept used:

$\sin 2\theta + \cos 2\theta = 1$

Calculation:

=> $\sin^2\theta + \cos^2\theta = 1$

=> $(4/x)^2 + (4x)^2 = 1$

=> $16 (1/x^2 + x^2) = 1$

=> $(1/x^2 + x^2) = 1/16$

Therefore The correct answer is 1/16.

Q62. Answer: (b) 25% profit

Calculation:

C.P of article = marked price × 80% × 95%

So, C.P of article = 30000 × 4/5 × 19/20 = 22800

Additional expenditure = 1200

So, total C.P of article = 22800 + 1200 = 24000

Given that S.P of article = 30000

So, gain = 30000 – 24000 = 6000

Gain% = (gain /C.P) × 100

Gain% = (6000/24000) × 100 = 25%

Therefore The correct answer is 25%.

Q63. Answer: (b) 53

Given:

The average age of 15 person is 32 years.

Formula used:

Average age = sum of ages of all persons/number of persons

Calculation:

Sum of ages of 15 persons = average age × 15

Sum of ages of 15 persons = 32 × 15 = 480

Let the ages of two persons are x and y

According to question,

Average age of 17 persons = 32 + 3 = 35

So, the sum of ages of 17 persons = 17 × 35 = 595

According to the question:

Sum of ages of 15 person + x + y = sum of ages of 17 persons

=> 480 + x + y = 595

=> x + y = 595 – 480

=> x + y = 115 ----(1)

It is given that their age difference is 9 years

=> x – y = 9 ----(2)

On subtracting (2) from (1) we get

=> y = 53

Therefore The age of younger person = 53 years

Q64. Answer: (d) 2017–2018

Calculation:

For year 2014–2015, percentage increase of passed students as compared to previous year = (200 – 150)/150 × 100 = 33.33%

For year 2015–2016, percentage increase of passed students as compared to previous year = (300 – 200)/200 × 100 = 50%

For year 2016-2017 percentage increase of passed students as compared to previous year = (250-300)/300 × 100 = -16.66%

(Negative sign means there is decrease in percentage of passed students in 2016-2017 in comparison to 2015 -2016)

For year 2017–2018, percentage increase of passed students as compared to previous year = (300 – 250)/250 × 100 = 20%

Therefore For the year 2017–2018, the percentage increase in a total number of passed students is the lowest in comparison to its previous academic year.

Q65. Answer: (a) Rs. 30,000

Given:

The sum of the salaries of A and B is Rs. 42,000.

Calculation:

A spends 75% of his salary, his saving 25% of his salary

B spends 90% of his salary, his saving 10% of his salary

According to condition,

Saving of A = saving of B

=> 25% A = 10% B

=> A : B = 2 : 5

Now salary of B = (5/7) × 42,000 = 5 × 6, 000 = 30,000

Therefore The correct answer is Rs.30000.

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Q66. Answer: (d) 240

Calculation:

The total number of students who passed in the five academic years = 150 + 200 + 300 + 250 + 300 = 1200

Average number of passed students = total students/Number of years

Average number of passed students = 1200/5 = 240

Therefore The correct answer is 240.

Q67. Answer: (a) 27%

Calculation:

Total number of students = 150 + 100 + 200 + 100 + 300 + 50 + 250 + 100 + 300 + 100 = 1650

Total number of failed students = 100 + 100 + 50 + 100 + 100 = 450

Required percentage = 450/1650 × 100 = 27.27% ≈ 27%

Therefore The correct answer is 27%.

Q68. Answer: (c) Rs. 30,000

Given:

A can complete a piece of work in 15 days.

B can complete a piece of work in 10 days.

Calculation:

Ratio of number of days taken by A and B to complete the work = 15 : 10 = 3 : 2

Ratio of efficiency of A and B = 2 : 3

Let their share is in the ratio of 2x and 3x

Now

=> 2x + 3x = 75000

=> 5x = 75000

=> x = 15000

Share of A = 2x = 15000 × 2 = Rs. 30000

Therefore The correct answer is Rs. 30000.

Q69. Answer: (d) 18

Given:

cos x = (-√3)/2

Calculation:

cos x = (-√3)/2 then,

=> x = 7π/6 (210°) [as π < x < 3π/2]

So, the value of 2 $\cot^2 x$ + 3 $\text{cosec}^2 x$

=> 2$(\sqrt{3})^2$+ 3(-2^2) = 18

Therefore The correct answer is 18.

Q70. Answer: (d) 1/2

Calculation:

=> (46-3/4~of~32-6)/(11+3/4~of~(34-6))

=> (46-3× 8-6)/(11+3× 7)

=> (46-24-6)/(11+21)

=> (46-30)/32

=> 16/32

Simplified value = 1/2

Therefore The correct answer is 1/2.

Q71. Answer: (b) 75

Given:

The ratio between the speeds of two trains is 2 : 5

Calculation:

For first train, Speed = distance/time
t = 5 hr, distance = 250
=> s = 250/5 = 50 km/hr
=> The speeds of two trains = 2 : 5
Therefore The difference between the speeds (in km/h) of both the trains= 50 × 3/2 = 75 km/hr

Q72. Answer: (b) 64°

Given:
angle BAC = 52°
Calculation:
=> angle BOC = 90° - angle A/2
=> angle BOC = 90° - (52°/2)
=> angle BOC = 90° - 26°
=> angle BOC = 64°
Therefore The correct answer is 64°.
Alternate MethodGiven:
angle A = 52°
Calculation:
angle A + angle B + angle C = 180°
52° + angle B + angle C = 180°
angle B + angle C = 128°
Let angle B = x°, angle C = y°
Now,
AB is extended to D,
angle ABD = 180°
angle ABD = angle ABC + angle DBC = 180°
x + angle DBC = 180°
angle DBC = (180° - x)
Similarly,
angle ECB = (180° - y)
Now,
As per the triangle Law,
(angle ECB)/2 + (angle DBC)/2 + angle O = 180°
(180° - x)/2 + (180° - y)/2 + angle O = 180°
180° - x/2 - y/2 + angle O = 180°
angle O = (x + y)/2 = (128°)/2 = 64°
Therefore The correct answer is 64°.

Q73. Answer: (b) 3

Calculation:
=> 72 = 9 × 8, where 9 and 8 are co–prime
=> 64x29y6 is should be divisible by 9 and 8
Divisibility rule of 8,
=> Last three digits 9y6 so minimum value of y = 3
Divisibility rule of 9,
=> 30 + x also divisible by 9 so x = 6
The value of (2x – 3y) = 12 – 9 = 3
Therefore The correct answer is 3.

Q74. Answer: (c) 2013–2014

Calculation:
In year 2013–2014, difference of passed and failed students = 150 – 100 = 50
In year 2014–2015, difference of passed and failed students = 200 – 100 = 100

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In year 2015– 2016, difference of passed and failed students = 300 – 50 = 250

In year 2016–2017, difference of passed and failed students = 250 – 100 = 150

In year 2017–2018, difference of passed and failed students = 300 – 100 = 200

Therefore In the year 2013–2014 the difference between the number of students passed and failed students is the lowest

Q75. Answer: (b) 9 : 16

Given:

A earns = 640 per day

B earns = 360 per day

Calculation:

Since A earns Rs. 640 per day and B earns Rs. 360 per day

Required ratio = 360 : 640 = 9 : 16

Therefore The correct answer is 9 : 16.

Q76. Answer: (a) Initial Public Offering

The correct answer is option 1) i.e. Initial Public offering.

• Initial public offering (IPO) is the process by which a private company can go public by sale of its stocks to the general public.

• It could be a new, young company or an old company which decides to be listed on an exchange and hence goes public.

• Companies can raise equity capital with the help of an IPO by issuing new shares to the public or the existing shareholders can sell their shares to the public without raising any fresh capital.

• The company which offers its shares, known as an 'issuer'.

Q77. Answer: (a) 17^(th) May

The correct answer is option 1) i.e. 17^(th) May.

• Every year, 17 May is dedicated to World Hypertension Day (WHD).

• The theme for World Hypertension Day is Know Your Numbers with a goal of increasing high blood pressure (BP) awareness in all populations around the world.

• This is an initiative of the World Hypertension League (WHL), an affiliated section of the International Society of Hypertension.

• The WHD was first inaugurated in May 2005 and has become an annual event ever since.

• The purpose of the WHD is to promote public awareness of hypertension and to encourage citizens of all countries to prevent and control this silent killer, the modern epidemic.

Q78. Answer: (d) Ruskin Bond

The correct answer is option 4) i.e. Ruskin Bond.

• 'Delhi Is Not Far' is one of Ruskin Bond's finest novels about a small town in India and its aspirations.

• Through its characters, Bond explores the vagaries of life in a small town and paints a vivid picture of their lives.

• Through this book, in an almost poetic manner, Bond takes his readers on a journey like never before, to a town named Pipal Nagar.

• At the age of 17 in London, he began to write his first novel, The Room on the Roof.

• He was awarded the Sahitya Akademi Award to honour his work of literature.

• Some of the other notable works of him include Blue Umbrella, A Flight of Pigeons and Funny Side Up.

Q79. Answer: (b) Shilpa Shetty

The correct answer is option 2) i.e. Shilpa Shetty.

• Global Indian Icon award went to actress Shilpa Shetty.

• The 2018 event acknowledged and celebrated individuals and organisations who have made a significant contribution to strengthening the bilateral relationship.

• Over 400 senior leaders from the world of business, politics, diplomacy, media, arts & culture participated in this event.

• Bollywood actor Vivek Oberoi hosted this year's UK-India Awards ceremony.

• Manoj Ladwa, the British Indian entrepreneur and political strategist is the Founder of UK-India Week.

Q80. Answer: (b) 117^(th)

The correct answer is option 2) i.e. 117^(th)

• The KidsRights Index is the annual global index which ranks how countries adhere to and are equipped to improve children’s rights.

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• The KidsRights Index is an initiative of the KidsRights Foundation, in cooperation with Erasmus University Rotterdam: Erasmus School of Economics and the International Institute of Social Studies.

• It comprises a ranking for all UN member states that have ratified the UN Convention on the Rights of the Child and for which sufficient data is available, a total of 181 countries.

• The United states of America is the only country which has not ratified this convention.

Q81. Answer: (b) Odisha

The correct answer is option 2) i.e. Odisha.

• The instrument Dhenka is alone responsible for the composition of a number of poems by Kavisurya Baladeva Ratha through its novel melodious tunings.

• Music is the heart and soul of Odishan's life.

• The stringed musical instruments like Veena, Kendra, Sarangi, Ektara, Behela, Dhenka are well-known and in vogue throughout the State.

Q82. Answer: (d) Golf

The correct answer is option 4) i.e. Golf.

• The definition of "address the ball" as it appears in the Official Rules of Golf is this: "A player has 'addressed the ball' when he has grounded his club immediately in front of or immediately behind the ball, whether or not he has taken his stance.

• Other terms associated with golf are Albatross, Birdie, Chip, Putter, Tee, etc.

Q83. Answer: (c) Chess

The correct answer is option 3) i.e. Chess.

• Humpy Koneru was born in Gudivada, Andhra pradhesh.

• By the age of 14 in January 2002 she was ranked no. 3 among women at 2539, and later that year she broke Judit Polgar’s record for the youngest woman ever to become a grandmaster.

• She became only the second female player to cross 2600 on the rating list after Judit Polgar.

• She won Skolkovo FIDE's Women's Grand prix which is a 12 player round-robin which took place in Skolkovo near Moscow, Russia in September 2019.

Q84. Answer: (d) Mumbai Indians

The correct answer is option 4) i.e. Mumbai Indians.

• Mumbai Indians won the 2019 IPL against Chennai Super Kings by 1 run in a last-ball thriller.

• Mumbai Indians became the only team to win the IPL for the 4^(th) time.

• Lasith Malinga bowled the final over defending 8 runs off the final over.

• Jasprit Bumrah won the Man of the Match award in the final of IPL 2019.

Q85. Answer: (c) Bhawana Kanth

The correct answer is option 3) i.e. Bhawana Kanth.

• Flight lieutenant Bhawana Kanth became the first woman fighter pilot to qualify to undertake combat missions on a fighter jet.

• She belongs to Darbhanga, Bihar and did her Engineering from BMS Engineering College, Bangalore.

• Her batchmates Flight lieutenant Avani Chaturvedi and Flight lieutenant Mohana Singh will also become fighter pilots soon.

• She has been posted to a frontline airbase at Nal in Rajasthan, where she will operate the aircraft with her squadron.

Q86. Answer: (c) Article 330

The correct answer is option 3) i.e. Article 330.

• Article 330 provides for the Reservation of seats for Scheduled Castes and Scheduled Tribes in the House of the People.

• Article 335 provides for the claims of Scheduled Castes and Scheduled Tribes to services and posts

• Article 321 provides the power to extend functions of Public Service Commissions

• Article 325 states that no person be ineligible for inclusion in, or to claim to be included in a special, electoral roll on grounds of religion, race, caste or sex.

Q87. Answer: (a) Sarojini Naidu

The correct answer is option 1) i.e. Sarojini Naidu.

• Sarojini Naidu was the first woman to be appointed as an Indian state governor of the United Provinces then.

• She was born on February 13, 1879, in Hyderabad.

• She was a political activist, feminist, and poet.

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• She was the first Indian woman to be president of the Indian National Congress

• She was called “the Nightingale of India” or "Bharatiya Kokila".

• She died on March 2, 1949, Lucknow.

Q88. Answer: (d) 1893

The correct answer is option 4) i.e. 1893.

• The 1893 World’s Parliament of Religions was held on the shore of Lake Michigan, Chicago was the largest and most spectacular event among many other congresses.

• The World Congress of Religions marks the first formal gathering of representatives of Eastern and Western spiritual traditions.

• Swami Vivekananda mesmerized the 5,000 assembled delegates, greeting them with the words, “Sisters and brothers of America!”

• This speech, which introduced Hinduism to America is memorized by school children in India to this day.

• Swami Vivekananda became one of the most forceful and popular speakers in spite of the fact that he had never before addressed an audience in public.

• 19 women spoke at this Parliament, an unprecedented occurrence until 1893.

Q89. Answer: (a) Mannar

The correct answer is option 1) i.e. Mannar.

• Palk Strait, the inlet of the Bay of Bengal between southeastern India and northern Sri Lanka. It is bounded on the south by Pamban Island (India), Adam’s Bridge, the Gulf of Mannar, and Mannar Island (Sri Lanka).

• The southwestern portion of the strait is also called Palk Bay.

• The strait is 64 to 137 km wide, 137 km long, and less than 100 metres deep.

• It receives several rivers, including the Vaigai (India), and it contains many islands on the Sri Lankan side.

• The port of Jaffna, the commercial centre for northern Sri Lanka, lies on the strait.

Q90. Answer: (b) Biomass

The correct answer is option 2) i.e. Biomass.

• Biomass is the weight or total quantity of living organisms of one animal or plant species or of all the species in a community, commonly referred to a unit area or volume of habitat.

• Barrage is a dam placed in a watercourse to increase the depth of water or to divert it into a channel for navigation or irrigation

• A batholith is a large body of igneous rock formed beneath the Earth's surface by the intrusion and solidification of magma.

• Buffers are molecules that donate or accept protons to resist changes in pH as acids or bases are added to the solution.

Q91. Answer: (a) Marie Curie

The correct answer is option 1) i.e. Marie Curie.

• The first woman to win a Nobel Prize was Marie Curie, who won the Nobel Prize in Physics in 1903 with her husband, Pierre Curie, and Henri Becquerel.

• Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer and studied uranium and other radioactive substances

• In 1911, she won the Nobel Prize in Chemistry for the isolation of radium.

• Curie is also the only woman to have won multiple Nobel Prizes.

Q92. Answer: (c) Amritsar

The correct answer is option 3) i.e. Amritsar.

• Raja Sansi International Airport serves the Indian city of Amritsar.

• It is located 11 kilometres northwest of the city centre, nearby the village of Raja Sansi.

• The airport not only serves the Amritsar district, but it also serves Punjab areas, the western districts of Himachal Pradesh and the southern districts of Jammu and Kashmir.

• Amritsar is famous for being the home city of Harmandir Sahib (the Golden Temple), which is the spiritual and cultural centre for the Sikh religion.

• Other major attractions of Amritsar are the Jallianwala Bagh, Akal Takht and Tarn Taran Sahib Temple.

Q93. Answer: (a) Melanin

The correct answer is option 1) i.e. Melanin.

• Melanin is a skin pigment.

• It occurs in both humans and animals and makes hair, skin, and eyes appear darker.

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Key Points

• Melanin protects the skin from UV rays.

• Increasing melanin may also help block processes in the body that lead to skin cancer.

• In humans, melanin exists in three forms that are eumelanin, pheomelanin, and neuromelanin.

Q94. Answer: (a) George Wittet

The correct answer is option 1) i.e. George Wittet.

• The Gateway of India was designed by the British architect, George Wittet.

• Gateway of India is a great historical monument built during the British rule in the country.

• It was built as a triumphal arch to commemorate the visit of King George V and Queen Mary to Mumbai (then, Bombay).

• Gateway of India was built at Apollo Bunder, a popular meeting place.

• It is synonymous with Mumbai. It is the most famous monument in Mumbai and is the starting point for most tourists who want to explore the city.

Additional Information

• Edward Lyutens is known for his planning of New Delhi and his design of the Viceroy's House there.

• Alexander "Greek" Thomson, a renowned Scottish architect and architectural thinker who lived from 1817 to 1875, was a pioneer in sustainable construction.

Q95. Answer: (d) Window

The correct answer is option 4) i.e. Window.

• A screen in a software program that permits the user to view several programs at one time is called a Window.

• It allows multiple viewing areas as part of a graphical user interface (GUI).

• A spreadsheet is a sheet of paper that shows data in rows and columns on a computer.

• Shareware is software that is distributed free on a trial basis with the understanding that the user may need to pay for it later.

• A word processor is a type of software application used for composing, editing, formatting and printing documents.

Q96. Answer: (a) Thane, Maharashtra

The correct answer is option 1) i.e. Thane, Maharashtra.

• The Thane district of Maharashtra is the most populated district of India.

• The Dibang Valley of Arunachal Pradesh is the least populated district of India.

• The Mahe district of Puducherry has the highest sex ratio of 1176 females per 1000 males.

• The Daman district has the lowest sex ratio of 533 females per 1000 males.

• North East Delhi has the highest density with a figure of 37346 persons per square kilometer.

• The Dibang Valley has the least density of 1 person per sq. km.

Q97. Answer: (b) Bombay

The correct answer is option 2) i.e. Bombay.

• The first Indian cotton mill, "The Bombay Spinning Mill", was opened in 1854 in Bombay by Cowasji Nanabhai Davar.

• Cotton exports grew during the American Civil War when supplies from the USA were interrupted. At the end of 1895, there were 70 mills.

• The first cotton mill established at Ahmedabad was in the year 1861, which later emerged as a rival center to Mumbai's textile mill.

• When the Indian Textile Industry came into existence in India, it accounted for 14 percent of the total industrial production and

• contributed to nearly 30 percent of the total exports.

• It was also the second-largest employment generator after agriculture in India

Q98. Answer: (c) Vitamin K

The correct answer is option 3) i.e. Vitamin K.

• Vitamin K (Phylloquinone) is a vitamin found in leafy green vegetables, broccoli, and Brussels sprouts.

• In the body, vitamin K plays a major role in blood clotting. So it is used to reverse the effects of “blood-thinning” medications when too much is given

• It also prevents clotting problems in newborns who don’t have enough vitamin K and to treat bleeding caused by medications.

Tricks:

Q99. Answer: (c) Demand

The correct answer is option 3) i.e. Demand.

- Demand in economics is defined as consumers' willingness and ability to consume a given good.
- Supply in economics is defined as the total amount of a specific good or service that is available to consumers.
- The law of demand says that at higher prices, buyers will demand less of an economic good.
- The law of supply says that at higher prices, sellers will supply more of an economic good.

Q100. Answer: (c) Bit

The correct answer is option 3) i.e. Bit.

- A bit is a binary digit and it is the smallest unit of data on a computer.
- A bit can hold only one of two values: 0 or 1.
- Bits are usually assembled into a group of eight to form a byte.
- 1 Kilobyte = 1024 Bytes.
- 1 Megabyte = 1024 Kilobytes.
- 1 Gigabyte = 1024 Megabytes.
- 1 Terabyte = 1024 Gigabytes.

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