SSC CHSL Previous Paper 13 (Held On: 10 March 2018 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2018 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Directions: In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

To his opinion (1)/ every entertainment (2)/ movie is foolish. (3)/ No error (4)

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

Q2. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The Hellenistic period covering the period of Mediterranean (1)/ history between the death of Alexander the Great in (2)/ 323 BC and the emergence of the Roman Empire. (3)/ No error (4)

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

Q3. Directions: In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The Police took _____ from there.

(a) After
(b) Over
(c) Upon
(d) On

Q4. Directions: In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

One is caught in the box with what one knows and hence no new ideas _____.

(a) Emerge
(b) Destroy
(c) Rooted
(d) Innovate

Q5. Directions: In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Clandestine

(a) Truth
(b) Secret
(c) Frank

(d) Upright

Q6. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Cloistered

(a) Isolated
(b) Mendable
(c) Improvement
(d) Crowded

Q7. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Consanguinity

(a) Affinity
(b) Kin
(c) Race
(d) Disunion

Q8. Directions: In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Deathly

(a) Wasted
(b) Blooming
(c) Horrible
(d) Sick

Q9. Rearrange the parts of the sentence in correct order.

There needs to be a

P: more coordinated effort

Q: forest diseases in India

R: towards dealing with

(a) PRQ
(b) PQR
(c) RPQ
(d) RQP

Q10. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

A policeman caught her.

(a) She was caught by a policeman.
(b) She is catch by a policeman.
(c) She caught by a policeman.
(d) She is caught by a policeman.

Q11. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/ Direct Speech.

Raju wrote, “I will be going to Mumbai tomorrow."

(a) Raju wrote that he will be going to Mumbai tomorrow.
(b) Raju wrote that he would be going to Mumbai the day before.
(c) Raju wrote that he would be going to Mumbai the day after.
(d) Raju wrote that he should be gone to Mumbai the next day.

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Q12. Directions: In the following questions, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Preferred
(b) Prefereed
(c) Prrefored
(d) Prefearred

Directions

Directions: In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

People may see, and hear, and feel all their lives without _____ learning the nature of things they see. But reason is the mind's eye, and enables us to see why things are, and when and how events may be made to happen ____not to happen. The Logician endeavours to ____exactly what this reason is which makes the power of men. We all, as I have said, must reason well or ill, but logic is the science of reasoning and enables us to distinguish ____ the good reasoning which leads to truth, and the bad reasoning which every day betrays people into error _____ misfortune.

Q13. their lives without _____ learning the nature

(a) Really
(b) Real
(c) Reality
(d) Realise

Q14. made to happen _____ not to happen.

(a) Or
(b) But
(c) So
(d) At

Q15. Logician endeavours to _____ exactly what this reason

(a) Learnt
(b) Learns
(c) Learn
(d) Learning

Q16. us to distinguish _____ the good reasoning

(a) In
(b) Within
(c) Between
(d) Amidst

Q17. people into error _____ misfortune.

(a) Nor
(b) Neither
(c) Also
(d) And

Q18. Directions: In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Be worlds apart

(a) Travel a very long distance.
(b) To go from heaven to hell.
(c) Be very different.
(d) To sustain affection despite living very far away.

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Q19. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Silver bullet

(a) A very expensive solution used only as the last measure.
(b) A simple and seemingly magical solution to a complicated problem.
(c) A solution which is worse than the problem.
(d) A thing of beauty but which is actually deadly.

Q20. Directions: In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

The ability to make good judgments and take quick decisions

(a) Puerility
(b) Acumen
(c) Stupor
(d) Sanity

Q21. Directions: In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

A high degree of skill

(a) Proficiency
(b) Maladroit
(c) Amateur
(d) Gawkiness

Q22. Directions: In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

From the early 1990s, salaries shot up and stock options (were introduced).

(a) Are introduced
(b) Is introduced
(c) Was introduced
(d) No improvement

Q23. Directions: In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

I have always (baffle) by the unique melange of languages and dialects that India is home to.

(a) Being baffled
(b) Been baffled
(c) Baffling
(d) No improvement

Q24. Directions: The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

There was an old study

A – of marathon runners which

B – heart muscle during post-mortem

C – showed significant fibrosis of the

(a) ABC
(b) ACB
(c) CBA
(d) CAB

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Q25. Directions: In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) Exacerbate
(b) Exacarbate
(c) Exacerbat
(d) Exacarbat

GENERAL INTELLIGENCE

Q26. In the following question, select the related word pair from the given alternatives.

Bulb : Electricity ::

(a) Fuel : Diesel
(b) Car : Petrol
(c) Scooter : Vehicle
(d) Pen : Pencil

Q27. In the following question, select the related number from the given alternatives.

432 : 234 :: 789 : ?

(a) 876
(b) 795
(c) 987
(d) 894

Q28. In the following question, select the related letter/letters from the given alternatives.

TMP : QJM :: PIK

(a) MFH
(b) RHK
(c) GFI
(d) AHK

Q29. In the following question, select the odd word pair from the given alternatives.

(a) Red - Colour
(b) Colour - Green
(c) Pink - Colour
(d) Blue - Colour

Q30. In the following question, four number pairs are given. The number on left side of (-) is related to the number of the right side of (-) with some Logic/RuIe/Relation. Three are similar on basis of same Logic/RuIe/Relation. Select the odd one out from the given alternatives.

(a) 23 – 25
(b) 27 – 29
(c) 21 – 23
(d) 25 – 29

Q31. In the following question, select the odd letter/letters from the given alternatives.

(a) IJLO
(b) EFHI
(c) KLNQ
(d) GHJM

Q32. Arrange the given words in the sequence in which they occur in the dictionary.

1. Participle
2. Parking
3. Parrot

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4. Pedestrian

5. Peach

(a) 13245
(b) 23154
(c) 54213
(d) 43125

Q33. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

5, 8, 11, 14, 17, ?

(a) 21
(b) 19
(c) 20
(d) 23

Q34. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

KNJ, NQM, QTP, TWS, ?

(a) XYZ
(b) YXV
(c) WYZ
(d) WZV

Q35. The ratio of the present age of Shreya and her husband is 8 : 9. 9 years from now, the age of her husband and her son will be in the ratio 9 : 4. If the present age of Shreya is 56 years, then what will be her son's present age (in years)?

(a) 23
(b) 24
(c) 19
(d) 25

Q36. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Components

(a) Cool
(b) Come
(c) Most
(d) Men

Q37. In a certain code language, "TRAP" is written as "53" and "MADE" is written as "21". How is "LATE" written in that code language?

(a) 37
(b) 36
(c) 38
(d) 35

Q38. In a certain code language, '-' represents '×' and '×' represents '-'. Find out the answer to the following question.

24 + 12 × 30 + 2 – 6 = ?

(a) 18
(b) 13
(c) 37
(d) 22

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Q39. The following equation is incorrect. Which signs should be replaced to correct the equation?

21 + 16 × 35 – 70 + 20 = 49

(a) • with ×
(b) • with ÷
(c) • with +
(d) • with ÷

Q40. If 2 * 10 = 6, 14 * 16 = 15 and 4 * 16 = 10, then find the value of 16 * 8 = ?

(a) 12
(b) 8
(c) 10
(d) 18

Q41. Which of the following terms follows the trend of the given list?

YYYYYYX, YYYYYXX, YYYYXXX, YYYXXXX, YYXXXXX, ?

(a) XXXXXXX
(b) YXXXXXX
(c) YYYYYYX
(d) YYYYYXX

Q42. Two autos start from the same stand. Auto A travels 2 km east, then turns to its right and travels further 3 km. Meanwhile auto B travels 5 km north, and then turns West and travels 3 km, then it turns to its left and travels 8 km. Where is auto B with respect to auto A?

(a) 5 km West
(b) 1 km West
(c) 5 km East
(d) 1 km East

Q43. In the question, two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statements:

I. No rubbers are plastic

II. AII polymers are rubber

Conclusions:

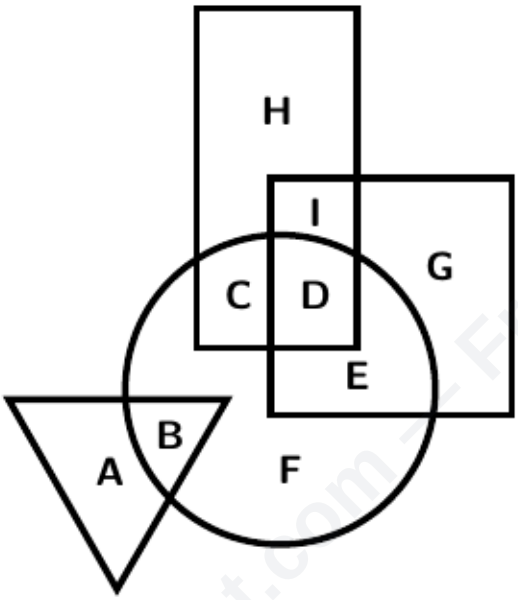
I. Some plastic are polymers

II. No polymers are plastic

(a) Only conclusion I follow
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Neither conclusion I nor conclusion II follows

Q44. In the following figure, rectangle represents Physicians, circle represents Cartoonists, triangle represents Poets and square represents Golfers. Which set of letters represents Physicians who are Golfers?

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(a) GE
(b) HC
(c) HCIDGE
(d) ID

Q45. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

ONU, NKP, MHK, LEF, ?

(a) KAB
(b) KAA
(c) KBA
(d) KAZ

Q46. In the following question, select the missing number from the given series.

123, 120, 116, 111, ?, 98

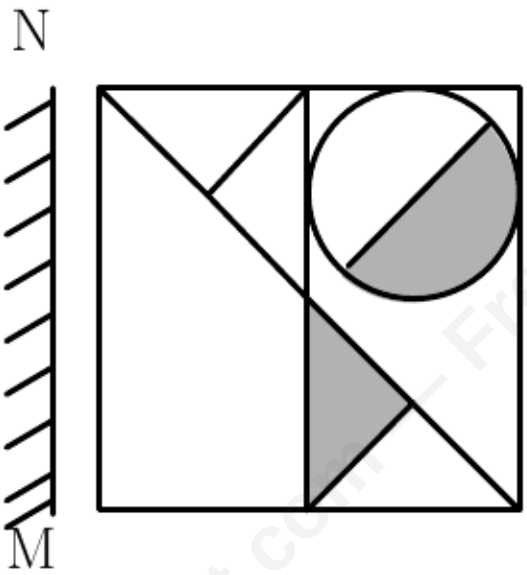
(a) 100
(b) 105
(c) 99
(d) 103

Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/ Relation. Select the odd one out from the given alternatives.

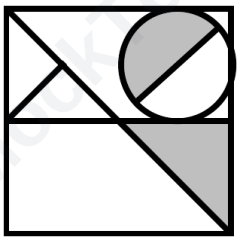
(a) (19, 22, 27)
(b) (41, 44, 49)
(c) (61, 64, 71)
(d) (83, 86, 91)

Q48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

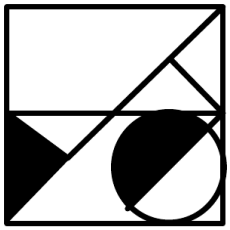
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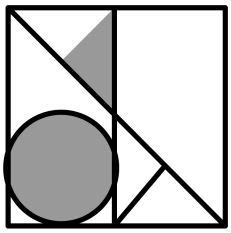
(a)



(b)



(c)

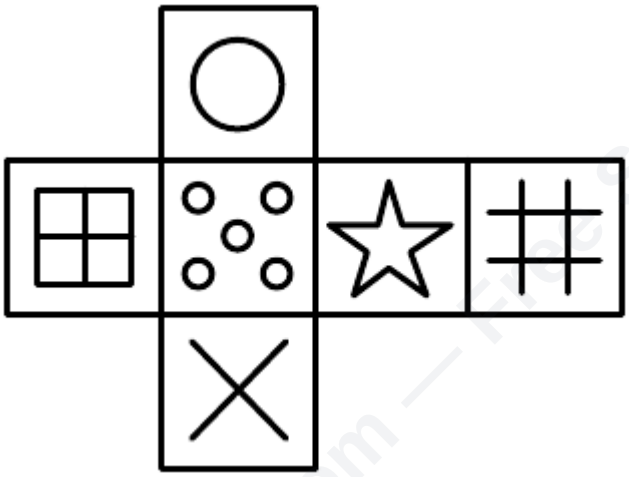


(d)

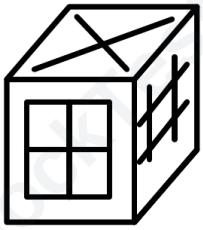


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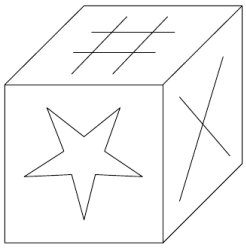
Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



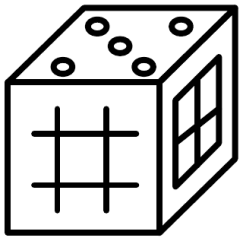
(a)



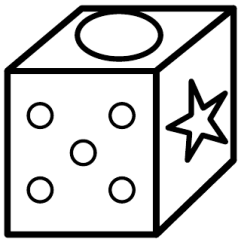
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example ‘G’ can be represented by 31, 24 etc and ‘Y’ can be represented by 86, 97 etc Similarly, you have to identify the set for the word ‘COWS’.

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Matrix I					
	0	1	2	3	4
0	C	C	D	I	J
1	E	K	I	B	E
2	I	F	A	K	G
3	C	G	E	L	I
4	J	H	I	F	A

Matrix II					
	5	6	7	8	9
5	O	X	N	W	X
6	N	W	N	X	O
7	Z	T	V	N	T
8	O	Y	W	O	R
9	N	P	Y	S	Z

(a) 12, 88, 12, 99
(b) 34, 68, 21, 57
(c) 30, 55, 87, 98
(d) 32, 98, 42, 77

QUANTITATIVE APTITUDE

Q51. Find the value of √(7√(7√(7√(7√(7√(7√7)))))

(a) 7^(31/64)
(b) 7^(1/64)
(c) 7^(63/64)
(d) 7^(7/64)

Q52. Find the value of x is √(1 - x/324) = 13/18

(a) 155
(b) 157
(c) 159
(d) 161

Q53. If x - 1/x = 10, then find the value of (x^4 + 1)/(x²)

(a) 98
(b) 100
(c) 102
(d) 106

Q54. If 7^(m + 1) = 2401, then find the value of 2^(2m + 2).

(a) 224
(b) 256
(c) 264
(d) 286

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Q55. If the triangle ABC and DEF follows the given equation, then these two triangles are similar by which of the following criterion?

AB/DE = BC/EF = AC/DF

(a) SAS similarity
(b) SSS similarity
(c) AAA similarity
(d) None of the these

Q56. Which of the following is the CORRECT option for the triangles having sides in the ratio of 3 : 4 : 6?

(a) Acute angled
(b) Obtuse angled
(c) Right angled
(d) Either acute or right angled

Q57. If 35% of A is equal to 60% of B, then what is the ratio of A and B?

(a) 8 : 13
(b) 12 : 7
(c) 2 : 3
(d) 13 : 7

Q58. A bag contain equal number of 1 rupee, 50 paisa and 25 paisa coins. If the total amount is Rs. 105, then how many coins of each type are there?

(a) 15
(b) 45
(c) 60
(d) 80

Q59. The alcohol and water in a mixture are in the ratio of 7 : 8 respectively. If 11 litre water is added to it, then the ratio of alcohol and water in the new mixture becomes 3 : 5. What is the total quantity (in litres) of the alcohol in the new mixture?

(a) 21
(b) 24
(c) 35
(d) 32

Q60. In a committee there are 15 members. If two members whose ages are 45 years and 55 years are replaced by two new members, then average age of 15 members is increased by 2 years. What is the average age (in years) of the new members?

(a) 59
(b) 61
(c) 65
(d) 68

Q61. Simple interest on a sum of Rs. 1400 for 3 years and 4 months is Rs. 700. What is the rate (in percentage) of interest per annum?

(a) 17
(b) 15
(c) 18
(d) 12

Q62. The difference between cost price and selling price is Rs. 12.54. If loss percentage is 33%, then what is the cost price (in Rs.)?

(a) 35.44
(b) 50.54
(c) 41

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(d) 38

Q63. Selling price of an article is Rs. 495 and discount of 5% is offered. What is the marked price (in Rs)?

(a) 524.5
(b) 587
(c) 521
(d) 540

Q64. What is the simplified value of $\sqrt{((0.07)^2 + (0.29)^2 - 0.0203)/((0.07)^3 + (0.29)^3)}$?

(a) 0.6
(b) 0.06
(c) (1/0.6)
(d) (1/0.06)

Q65. X alone can do a piece of work in 12 days and Y alone can do the same work in 6 days. In how many days will both together complete the same work?

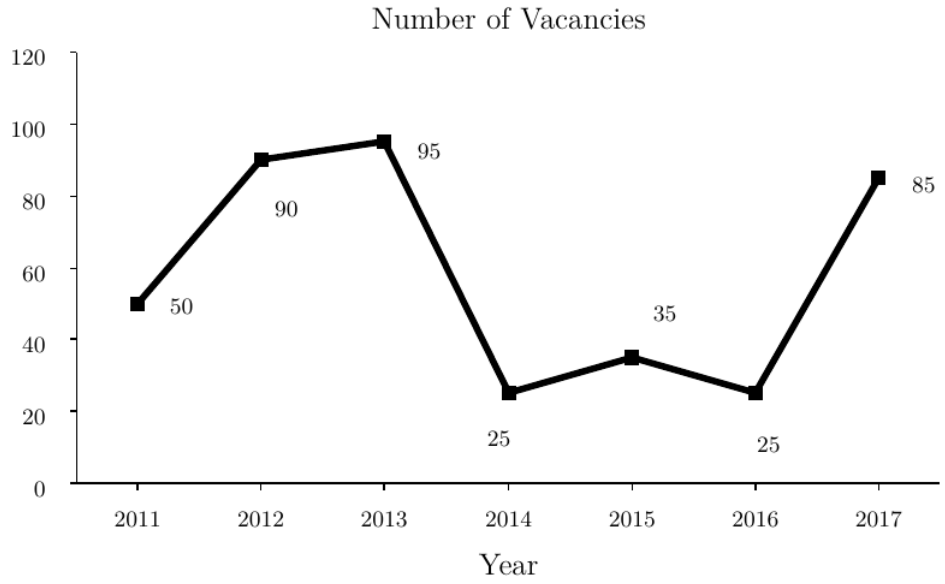
(a) 3
(b) 4
(c) 5
(d) 2

Q66. A 800 metres long train is running at the speed of 90 km/hr. If it crosses a bridge in 50 seconds, then what is the length (in metres) of the bridge?

(a) 250
(b) 300
(c) 350
(d) 450

Directions

Direction: The line graph shows the number of vacancies for management trainee in a certain company. Study the diagram and answer the following question.



Q67. In which year were the number of vacancies lesser than that of the previous year?

(a) 2015
(b) 2012
(c) 2014
(d) 2013

Q68. What was the difference in the number of vacancies between the years 2011 and 2014?

(a) 25
(b) 20
(c) 15
(d) 30

Q69. The number of vacancies in 2015 were lesser than that in 2011 by _____

(a) 30%
(b) 18%
(c) 70%
(d) 42.8%

Q70. The salary of a management trainee in the company is Rs. 15,000, then what was the increase in the expense (in Rs. Lakhs) due to salaries that had to be paid when posts were filled for the vacancies in the year 2012?

(a) 13
(b) 13.5
(c) 14
(d) 14.5

Q71. The length of the diagonal and the breadth of a rectangle is 26 cm and 10 cm respectively. Calculate its area (in cm^2).

(a) 480
(b) 69
(c) 240
(d) 192

Q72. If a regular polygon has 10 sides, then the measure of its interior angle is greater than the measure of its exterior angle by how many degrees?

(a) 120
(b) 132
(c) 140
(d) 108

Q73. Find the total surface area (in cm^2) of a cuboid of length, breadth and height of 10.5 cm, 8 cm and 9 cm respectively.

(a) 607
(b) 767
(c) 769
(d) 501

Q74. What is the value of (cot 45° - √2)?

(a) ((√3 - 1))/(2√3)
(b) (√3 - 1)/2
(c) 1 - √2
(d) 1 - √3

Q75. In Quadrilateral ADEF measure of angle E is 90°. If tan D = 4/3, and DE = 6 cm, then what is the length (in cm) of side EF?

(a) 10
(b) 5
(c) 8
(d) 4

GENERAL AWARENESS

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Q76. Permanent settlement was a feature of_____

(a) Zamindari System
(b) Mahalwari System
(c) Ryotwari System
(d) No option is correct.

Q77. Who was the Finance Minister of India during the New Economic Policy (1991)?

(a) Manmohan Singh
(b) Uma Kapila
(c) Pranab Mukherjee
(d) Jaswant Singh

Q78. Which of the following elements were not found in the form of archaeological remains from Kalibanga?

(a) Black bangles
(b) Firepit
(c) Ploughed field
(d) Couple burial

Q79. Who led the English Army in the Battle of Buxar?

(a) Lord Clive
(b) Vansittart
(c) Hector Munro
(d) Eyre Coote

Q80. Which of the following planets has the highest average density?

(a) Jupiter
(b) Mars
(c) Earth
(d) Mercury

Q81. Where are the Girnar hills located?

(a) Bihar
(b) Gujarat
(c) Karnataka
(d) Rajasthan

Q82. The birthplace of the tenth and last guru of Sikhs, Guru Gobind Singh is _____.

(a) Guwahati
(b) Hemkund Sahib
(c) Amritsar
(d) Patna Sahib

Q83. How many agreements have been signed by India and Israel on January 15, 2018?

(a) 6
(b) 9
(c) 12
(d) 15

Q84. Which Player has been awarded Padma Bhushan in the year 2018 for his contribution to Cricket?

(a) Saurabh Ganguli
(b) Rahul Dravid
(c) Mahendra Singh Dhoni
(d) Virat Kohli

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Q85. Which state of India does not share the border with Pakistan?

(a) Gujarat
(b) Rajasthan
(c) Punjab
(d) Himachal Pradesh

Q86. In which of the following, Nylon is used?

(a) Sleeping bags
(b) Parachute
(c) Toothbrush
(d) All options are correct

Q87. Match the following items of column (A) with column (B).

	Column A		Column B
I.	Carbon	1.	In making electric wire
II.	Copper	2.	As fuel
III.	Iron	3.	In wrapping food items
IV.	Aluminium	4.	For machinery

(a) I – 2, II – 1, III – 4, IV – 3
(b) I – 3, II – 1, III – 2, IV – 4
(c) I – 1, II – 2, III – 3, IV – 4
(d) I – 4, II – 3, III – 2, IV – 1

Q88. If any Fundamental Right of a citizen is breached, then under Article 32 of Indian Constitution he can directly go the _____.

(a) Chief Minister of state
(b) Prime Minister of India
(c) Supreme Court of India
(d) Governor of state

Q89. Which type of city administration controls transitional areas (from rural to urban)?

(a) Nagar Panchayat
(b) Municipal Council
(c) Municipal Corporation
(d) No option is correct

Q90. The process of acquiring oxygen from outside the body and to use it in the process of breakdown of food sources for cellular needs is commonly called _____.

(a) respiration
(b) nutrition
(c) digestion
(d) transportation

Q91. What is the function of guard cells of the stomata?

(a) Opening of stomata only
(b) Closing of stomata only
(c) Both opening and closing of stomata
(d) Neither opening nor closing of stomata

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Q92. In August 2017, Indian Government has launched a portal to provide a platform to sell agricultural produce called 'e-RAKAM'. What does 'M' stand for?

(a) Market
(b) Mandi
(c) Management
(d) Messaging

Q93. SARAS PT1N, the new upgraded version of indigenous transport aircraft. SARAS has been developed by

(a) Hindustan Aeronautics Limited
(b) National Aeronautics Laboratory
(c) Bharat Dynamics Limited
(d) Defence Research and Development Organisation

Q94. In April 2017, N.K. Singh Committee recommended _____ fiscal deficit target by FY23.

(a) 2.50%
(b) 3.00%
(c) 3.50%
(d) 4.00%

Q95. On 12 April 2017, Parliament passed the HIV/AIDS (Prevention and Control) Bill, 2017. This Bill provides essential support to National AIDS control programme. It aims to achieve the target of ending this Epidemic by year _____.

(a) 2025
(b) 2022
(c) 2030
(d) 2020

Q96. Calculate the time period (in seconds) of a sound wave of wavelength 2m travelling with a speed of 250 m/s.

(a) 500
(b) 0.008
(c) 0.016
(d) 250

Q97. The ratio of the total distance travelled by a body to the total time taken by it is its

(a) instantaneous velocity
(b) linear velocity
(c) average speed
(d) acceleration

Q98. The average weather pattern taken over a long time, say 25 years, is called the _____ of the place.

(a) Ecology
(b) Environment
(c) Climate
(d) Habitat

Q99. Which of the statements given below are correct?

A) Rajiv Ouseph won the Badminton 2017 BWF Super Series Finals Men's Singles.
B) In 2017, Anthony Davis played for the NBA team New Orleans Pelicans.
C) Lewis Hamilton won the Formula One 2017 Australian Grand Prix.

(a) Only A
(b) Only B
(c) Only C
(d) B and C

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Q100. In Microsoft Word, _____ refers to the way our text will look like.

(a) Inserting
(b) Formatting
(c) Cutting
(d) Pasting

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) 1

The correct answer is '1' i.e. error lies in the first part of the sentence.

Key Points

In the first part of the sentence, the usage of 'to' is incorrect Instead, use 'In'

• 'In (one's) opinion' is the idiom that means 'In one's viewpoint or belief.'

• Let's see an example-

• In my opinion, that paint color doesn't work for this room, but then again, green isn't my favorite color.

So the correct sentence is- In his opinion every entertainment movie is foolish.

Q2. Answer: (a) 1

The correct answer is '1' i.e. error lies in the first part of the sentence.

Key Points

In the first part of the sentence, the usage of 'covering' is incorrect Instead, use 'covers'

• In the given sentence, the subject is 'the Hellenistic period' hence for the subject we need a singular verb that is not given in the sentence.

• 'Covering' is a gerund that is used as the subject or the object of the sentence it is not used as a verb. Hence, change it not the present simple tense i.e. 'covers'

• In part B, the usage of 'between' is correct because in part C there is the conjunction 'and' hence this makes a correlative pair.

So the correct sentence is- The Hellenistic period covers the period of Mediterranean history between the death of Alexander the Great in 323 BC and the emergence of the Roman Empire.

Q3. Answer: (b) Over

The correct answer is 'Over'

Key Points

• Let's see the meaning of the phrasal verbs formed with the given options-

• Take after = resemble (a parent or ancestor).

• Take over = take control of something.

• Take upon = to accept responsibility for something without being asked to:

• Take on = become very upset, especially needlessly.

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• Let's see an example-
• The riot was initially being handled by the fire department till the evening and the police took over from there.
So the correct sentence is- The Police took over from there.

Q4. Answer: (a) Emerge

The correct answer is 'Emerge'
Key Points
• If you're stuck, you can't think of any ideas or come up with any new thoughts.
• Thus, option 1 ie. emerge (come out; become visible or prominent) is the correct answer.
• Let's see the meaning of other words-
• Innovate means to make changes in order to improve.
• Rooted is an adjective that means 'exhausted; worn out.'
So the correct sentence is- One is caught in the box with what one knows and hence no new ideas emerge.

Q5. Answer: (b) Secret

The correct answer is 'Secret'
Key Points
• Let's see the meaning of the given words-
• Clandestine→ Done secretly or kept secret.
• Truth→ The quality of being true.
• Secret→Not known or seen.
• Frank→ Candid and honest.
• Upright→ Strictly honorable and honest.
• So according to the meaning, the correct answer is 'secret'

Q6. Answer: (a) Isolated

The correct answer is 'isolated'
Key Points
• Let's see the meaning of the given words-
• Cloister→ Seclude or shut up in a convent or monastery.
• Isolated→ Place apart or alone; cut off.
• Mendable→ Untruthful.
• Improvement→ An instance of improving.
• Crowded→ A large number of people gathering.
• So according to the meaning of the words, the correct answer is 'Isolated'

Q7. Answer: (d) Disunion

The correct answer is 'Disunion'
Key Points
• Let's see the meaning of the given words-
• Consanguinity→ being from the same kinship or ancestor.
• Disunion→ means 'separation'
• Affinity→ means 'closeness.'
• Kin→ means 'familial or related.'
• So according to the meaning of the words the correct answer is 'Disunion'

Q8. Answer: (b) Blooming

The correct answer is 'Blooming'
Key Points
• Let's see the meaning of the given words-
• Deathly→ means 'resembling or causing death.'
• Blooming→ means 'flourishing; healthy; growing'
• Horrible→ Causing or likely to cause horror.
• Sick→ Affected by physical or mental illness.

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• So according to the meaning of the words, the correct answer is 'Blooming'

Q9. Answer: (a) PRQ

The correct answer is 'PRQ'

Key Points

• "Q" can't be first in sequence since forest diseases can't be preceded by 'a.'

• "R" doesn't fit in either (a towards = doesn't make grammatical or contextual sense).

• Thus, "P" is first. Rule out 3) and 4). You can't end a sentence with a preposition. So, R can't be last (ends with with).

• Hence, Option 1 i.e. 'PRQ' is the correct answer.

So the correct sentence is→There needs to be a more coordinated effort towards dealing with forest diseases in India.

Q10. Answer: (a) She was caught by a policeman.

The correct answer is 'She was caught by a policeman'

Key Points

• Let's see the steps to change the Active voice into the passive voice.

• Firstly, check the tense of the sentence because the tense in the A/P voice doesn't change.

• Secondly, look for the object in the sentence. The object of the sentence gives the reply of what/whom.

• Thirdly, if the object of the sentence is not given then look for the infinitive and change the infinitive verb into the passive voice.

• Fourth, the subject of the sentence in the active voice changes into the object of the sentence in the passive voice, and the object becomes the subject of the sentence.

• The given sentence is in the past simple tense. So the structure of the verb is 'was + V3'

• So the correct sentence is- She was caught by a policeman.

Q11. Answer: (c) Raju wrote that he would be going to Mumbai the day after.

The correct answer is 'Raju wrote that he would be going to Mumbai the day after'

Key Points

• Let's see the steps we make while doing the conversion of Direct speech into Indirect speech-

• If the reporting verb is in the past tense, then the direct sentence is changed in its past tense.

• The tense of direct speech remains unchanged when the reporting verb is in the present or future tense.

• If the direct sentence contains the universal truth, then it remains unchanged in the Indirect Speech.

• The reporting verb said/said to is changed in asked, demanded, ordered, enquired as per the nature of the sentence.

• While a sentence starts with the reporting verb then at the conversion time if /whether is used as the joining clause.

• In case the sentence starts from the “Wh” question word, then no extra conjunction is used.

• The first person in reported speech changes according to the subject of reporting speech.

• In Reported Speech change of the second person depends on the object of reporting speech.

• The third person remains unchanged.

• So according to these steps, the correct answer is 'Raju wrote that he would be going to Mumbai the day after'

Q12. Answer: (a) Preferred

The correct answer is 'Preferred'

Key Points

• Preferred- means (to like one thing more than another).

• Let's see an example-

• I became a teacher because I preferred books and people to politics.

Q13. Answer: (a) Really

The correct answer is 'Really'

Key Points

• At the first instance, you will answer 'real'. Let's see according to grammar, 'learning' is a present participle and acts as an adjective hence to qualify an adjective we need an adverb. In the given options, there is no adverb except 'really' hence this is the correct answer.

• So the correct sentence is- Their lives without really learning the nature.

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Q14. Answer: (a) Or

The correct answer is 'or'

Key Points

• Let's see the meaning of the given options-

• Or is a conjunction used to link the alternatives.

• But is a conjunction used to introduce a phrase or clause contrasting with what has come before or with what is expected.

• So is a conjunction used to tell the reason or to introduce a question or concluding statement.

• At is a preposition used to tell the position.

• So according to the meaning and the usage, the correct answer is 'or'.

• According to grammar, we need to choose one option i.e. 'to happen' or 'not to happen' hence for this kind of scenario we have to use 'or'

Q15. Answer: (c) Learn

The correct answer is 'learn'

Key Points

• 'to' is a preposition and we know that it also makes an infinitive. An infinitive has a structure like this one 'To + V1'

• Hence, in the blank, we need a verb here. Let's see the options now-

• Learnt is a verb (Second form of the verb)

• Learn is a verb (the present simple tense for a singular person)

• Learn is a verb (based form or the first form of the verb)

• Learning is a verb or present participle

• Hence, according to the parts of speech, the correct answer is 'Learn'

Q16. Answer: (c) Between

The correct answer is 'Between'

Key Points

• After the blank, 'and' conjunction has been used and we know that between...and is a correlative pair of conjunction. So the correct answer is 'between'

• Let's see an example-

• I spent a lot of time traveling between London and Bradford.

So the correct sentence is- to distinguish between the good reasoning which leads to truth, and the bad reasoning

Q17. Answer: (d) And

The correct answer is 'and'

Key Points

• 'And' is coordinating conjunction and it is used when we have to join two same degrees of adjectives/verbs/nouns.

• In the given sentence, before and after the blank there are two same adjectives i.e. 'error' and 'misfortune' hence use the conjunction 'and'

So the correct sentence is- people into error and misfortune.

Q18. Answer: (c) Be very different.

The correct answer is 'be very different'

Key Points

• The meaning of the given idiom 'be worlds apart' is 'very different or distant.'

• Let's see an example-

• Our daughter's school is worlds apart from school as I knew it in the 1960s

Q19. Answer: (b) A simple and seemingly magical solution to a complicated problem.

The correct answer is 'A simple and seemingly magical solution to a complicated problem'

Key Points

• The meaning of the given idiom 'Silver bullet' is 'an easy solution to a difficult problem.'

• Let's see an example-

• There was no silver bullet that could have prevented the atrocities.

So the correct answer is- A simple and seemingly magical solution to a complicated problem.

Q20. Answer: (b) Acumen

The correct answer is 'Acumen'

Key Points

• Let's see the meanings of the given word-

• Puerility→ childish foolishness.

• Acumen→ cleverness; brightness; ability to make good decisions.

• Stupor→ a state of near-unconsciousness or insensibility.

• Sanity→ sound mental health.

• So according to the meaning of the given words, the correct answer is 'Acumen'

Q21. Answer: (a) Proficiency

The correct answer is 'Proficiency'

Key Points

• Let's see the meanings of the given words-

• Proficiency→ expertise; extreme skill.

• Maladroit→ awkward; unskilful.

• Amateur→ non-specialist; non-professional.

• Gawkiness→ awkwardness.

• So according to the meaning of the word, the correct answer is 'Proficiency'

Q22. Answer: (d) No improvement

The correct answer is 'No improvement'

Key Points

• According to grammar, whenever the subject is plural we have to use a plural verb for it or the subject is singular then we have to use the singular subject.

• In the given sentence, the subject is 'salaries shot up and stock options' In this, the first subject is 'salaries' for this the verb is used 'shot up' and the second subject is 'stock options' hence we need a verb for this noun so we have to use a plural noun in the past tense to follow the rule of parallelism as well.

So the correct sentence is- From the early 1990s, salaries shot up and stock options were introduced.

Q23. Answer: (b) Been baffled

The correct answer is 'been baffled'

Key Points

• According to grammar, whenever we have to use the present perfect tense we use the format like this- 'Have + V3'. 'Have' here acts as a helping verb and the third form of the verb is the main verb of the sentence.

• In the given sentence, we have to use the passive voice because the doer for the verb 'baffle' is not given hence to show that we have to write the sentence in the passive voice.

So the correct sentence is- I have always been baffled by the unique melange of languages and dialects that India is home to.

Q24. Answer: (b) ACB

The correct answer is 'ACB'

Key Points

• The sentence can't end with which or the.

• Thus, B has to be the last in order. Rule out 1) and 3).

• It is clear that using C first will be grammatically incorrect (There was an old study showed = which/that missing). Rule out 4).

• Hence, Option 2 i.e. 'ACB' is the correct answer.

So the correct sentence is- There was an old study of marathon runners which showed significant fibrosis of the heart muscle during post-mortem.

Q25. Answer: (a) Exacerbate

The correct answer is 'Exacerbate'

Key Points

• The meaning of the word 'Exacerbate' is a problem or bad situation, it makes it worse.'

• Let's see an example-

• Longstanding poverty has been exacerbated by racial divisions.

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Q26. Answer: (b) Car : Petrol

The logic used here is,

→ Bulb uses electricity to operate.

Let's check each option,

Option	Item	Uses to operate.
1	Fuel	Diesel
2	Car	Petrol
3	Scooter	Vehicle
4	Pen	Pencil

Similarly, Car uses Petrol to operate.

Hence, the correct answer is " Car: Petrol ".

Q27. Answer: (c) 987

The logic followed here is,

→ The number has been changed into reverse order.

Hence, the correct answer is " 987 ".

Q28. Answer: (a) MFH

The pattern followed here is,

Similarly,

Hence, the correct option is “MFH”.

Q29. Answer: (b) Colour - Green

The logic used here,

→ The colour name has been mentioned first and then Colour.

Let's check each option,

1) Red - Colour → Satisfy the logic.

2) Colour - Green → Doesn't satisfy the logic because the order is not followed.

3) Pink - Colour → Satisfy the logic.

4) Blue - Colour → Satisfy the logic.

Here, we can see that only Option 2 doesn't satisfy the logic.

Hence, the correct answer is " Colour - Green ".

Q30. Answer: (d) 25 – 29

The logic followed here is,

→ Second Number = (First Number + 2)

Let's check each option,

1) 23 + 2 = 25

2) 27 + 2 = 29

3) 21 + 2 = 23

4) 25 + 2 = 27 ≠ 29.

Here, we can see that only option 4 doesn't satisfy the logic.

Hence, the correct answer is " 25 - 29 ".

Q31. Answer: (b) EFHI

The logic used here,

→ 1, 2, 3 is added to the first, second, third letter respectively to get the next letter of the term.

Let's check each option,

1) IJLO

2) EFHI

3) KLNQ

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4) GHJM

Here, we can see that Option 2 doesn't satisfy the logic.

Hence, the correct answer is " EFHI ".

Q32. Answer: (b) 23154

According to dictionary order, words will be arranged as follows

2. Parking

3. Parrot

1. Participle

5. Peach

4. Pedestrian

Hence, the correct answer is " 23154 ".

Q33. Answer: (c) 20

The pattern followed here is,

5 + 3 = 8,

8 + 3 = 11,

11 + 3 = 14,

14 + 3 = 17

Similarly,

17 + 3 = 20

Hence, the missing number is 20.

Q34. Answer: (d) WZV

The pattern followed here is,

Thus the missing letters is ‘WZV’.

Q35. Answer: (a) 23

The ratio of the present ages of Shreya and her husband is 8 : 9

→ The present age of Shreya is 56 years

→ The present age of Shreya’s husband is A

8 : 9 = 56 : A

→ A × 8 = 56 × 9

→ A = 504 ÷ 8

The present age of Shreya’s husband is 63 years.

9 years from now,

Shreya’s husband will be 72 years

Shreya’s husband and her son will be in the ratio 9 : 4

Hence, her son age is B

Then, 9 : 4 = 72 : (B + 9)

→ B = 23

Thus her son age is 23 years.

Q36. Answer: (a) Cool

Given word → Components

1) Cool → Components (As the letter 'L' is not present in the word components so, the word 'Cool' CANNOT be formed)

2) Come → Components (As all the letters are present so, the word can be formed)

3) Most → Components (As all the letters are present so, the word can be formed)

4) Men → Components (As all the letters are present so, the word can be formed)

Hence, the correct answer is "Cool".

Q37. Answer: (b) 36

The logic used here,

→ The words are coded as (The sum of positional value of letters - 2).

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TRAP → 20 + 18 + 1 + 16 = 55 and 55 – 2 = 53

MADE → 13 + 1 + 4 + 5 = 23 and 23 – 2 = 21

Similarly,

LATE → 12 + 1 + 20 + 5 = 38 and 38 – 2 = 36

Hence, the correct answer is " 36 ".

Q38. Answer: (a) 18

Given equation => 24 + 12 × 30 + 2 – 6.

The pattern followed here is,

Symbols	•	×
Code	×	•

After Interchange,

24 + 12 - 30 + 2 × 6

= 24 + 12 - 30 + 12

= 48 - 30

= 18

Thus, the correct answer is " 18 ".

Q39. Answer: (d) • with ÷

Let's check each option,

1) + with ×

→ 21 × 16 + 35 – 70 × 20 = 49.

→ 336 + 35 - 1400 = 49.

→ 371 - 1400 = 49.

→ 1029 ≠ 49.

→ LHS ≠ RHS.

2) + with ÷

→ 21 ÷ 16 × 35 – 70 ÷ 20 = 49.

→ 45.9 - 70 ÷ 20 = 49.

→ 45.9 - 3.5 = 49.

→ 42.4 ≠ 49.

→ LHS ≠ RHS.

3) - with +

→ 21 + 16 × 35 + 70 + 20 = 49.

→ 21 + 560 + 90 = 49.

→ 671 ≠ 49.

→ LHS ≠ RHS.

4) - with ÷

→ 21 + 16 × 35 ÷ 70 + 20 = 49

→ 21 + 8 + 20 = 49.

→ 49 = 49.

→ LHS = RHS.

NOTE: In this question we need to find the sign which should be replaced to make equation correct so if we change '-' sign with '÷' then only the equation become correct.

Thus, the correct answer is " - with ÷ ".

Q40. Answer: (a) 12

The pattern followed here is,

2 * 10 = 6 → 2 + 10 = 12 ÷ 2 = 6

14 * 16 = 15 → 14 + 16 = 30 ÷ 2 = 15

4 * 16 = 10 → 4 + 16 = 20 ÷ 2 = 10

Similarly,

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16 * 8 → 16 + 8 = 24 ÷ 2 = 12

Thus, the correct answer is " 12 ".

Q41. Answer: (b) YXXXXXX

The logic followed here,

→ The number of X is increasing from the right side in the subsequent terms.

→ YYYYYYX, YYYYYXX, YYYYXXX, YYYXXXX, YYXXXXX, YXXXXXX.

Hence, the correct answer is " YXXXXXX ".

Q42. Answer: (a) 5 km West

Based on information given, direction diagram can be traced as,

1) Auto A travels 2 km east.

2) Then turns to its right and travels further 3 km.

3) Auto B travels 5 km North.

4) Then turns west and travels 3 km.

5) Then it turns to its left and travels 8 km.

Now, combining the distance and turns of both autos, we get:

Thus, auto B with respect to auto A is (2 km + 3 km) = 5 km west.

Hence, the correct answer is " 5 km west ".

Q43. Answer: (b) Only conclusion II follows

The least possible Venn diagram for the given statements is as follows,

I: Some plastic are polymers → False (Because, All polymers are Rubber and no rubbers are Plastic).

II: No polymers are plastic → True (Because, All polymers are Rubber and no rubbers are Plastic).

Hence, the correct answer is " Only Conclusion II follows ".

Q44. Answer: (d) ID

According to the given information, Physicians who are golfers are:

Hence, the correct answer is “ ID ”.

Q45. Answer: (c) KBA

The pattern followed here is,

Thus, the correct answer is " KBA ".

Q46. Answer: (b) 105

The pattern followed here is,

Hence, the correct Answer is " 105 ".

Q47. Answer: (c) (61, 64, 71)

The logic followed here is,

→ Second Number = (First Number + 3).

→ Third Number = (Second Number + 5).

Let's check each option as per the logic,

1) (19, 22, 27)

→ 19 + 3 = 22, 22 + 5 = 27

2) (41, 44, 49)

→ 41 + 3 = 44, 44 + 5 = 49

3) (61, 64, 71)

→ 61 + 3 = 64, 64 + 5 (7) = 69 (71)

4) (83, 86, 91)

→ 83 + 3 = 86, 86 + 5 = 91.

Here, we can see that Option 3 doesn't satisfy the logic.

Hence, the correct answer is " (61, 64, 71) ".

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Q48. Answer: (d) [figure]

The correct mirror image of the given figure when the mirror is held at the right side is:

Hence, the correct answer is " option (4) ".

Additional InformationIn the Mirror image left side and right side changed vice-versa where the top and bottom remain the same.

The reflection of an object into the water is its water image. It appears by inverting an object vertically i.e. upside down.

The water image of the figure looks like the mirror image of the figure in case the mirror is horizontally at the bottom of the figure.

The water image is just a reflection where the top and bottom parts of the images changed while the left and right sides of the image remain the same.

Q49. Answer: (c) [figure]

When the unfolded cube is folded, the pair of opposite sides we get are,

Let's check each option,

1)

→ Follows the opposite pair pattern.

2)

→ Follows the opposite pair pattern.

3)

→ Cannot be made because

and

should be on the opposite sides.

4)

→ Follows the opposite pair pattern.

Here, we can see that Only Cube 3 cannot be made.

Hence, the correct answer is " option 3 ".

Q50. Answer: (c) 30, 55, 87, 98

The pattern followed here is:-

A letter in the matrices is represented first by its row and then by its column.

Checking option one by one to identify he set for the word ‘COWS’

1) 12 → I ; 88 → O ; 12 → I ; 99 → Z (so, the letter formed word IOIZ)

2) 34 → I ; 68 → X ; 21 → F ; 57 → N (so, the letter formed word IXFN)

3) 30 → C ; 55 → O ; 87 → W ; 98 → S (so, the word formed is COWS)

4) 32 → E ; 98 → S ; 42 → I ; 77 → V (so, the letter formed word ESIV)

Hence, the correct answer is "30, 55, 87, 98".

Q51. Answer: (c) 7^(63/64)

√(7√(7√(7√(7√(7√7)))))

=> √(7√(7√(7√(7√(7 × 7^(1/2))))))

=> √(7√(7√(7√(7√(7^(3/2))))))

=> √(7√(7√(7√(7 × 7^(3/4)))))

=> √(7√(7√(7√(7^(7/4)))))

=> √(7√(7√(7 × 7^(7/8))))

=> √(7√(7√(7^(15/8))))

=> √(7√(7 × 7^(15/16)))

=> √(7√(7^(31/16)))

=> √(7 × 7^(31/32))

=> 7^(63/64)

Q52. Answer: (a) 155

Calculation:

√(1 - x/324) = 13/18

On squaring both sides

=> 1 - x/324 = 169/324

=> - x/324 = 169/324 - 1

=> - x/324 = - 155/324

=> x = 155

Therefore Value of x is 155

Q53. Answer: (c) 102

Given:

x - 1/x = 10

Concept used:

• $(a - b)^2 = a^2 + b^2 - 2ab$

• $a^2 + b^2 = (a - b)^2 + 2ab$

Calculation:

(x^4 + 1)/(x^2)

Dividing numerator and denominator by x^2, we get

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

=> $x^2 + 1/x^2$ ---- (i)

According to the question,

x - 1/x = 10

Squaring both sides, we get

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

=> $x^2 + 1/x^2 = (x - 1/x)^2 + 2$ ---(ii)

Putting this value in eq (i) we get

$x^2 + 1/x^2 = (10)^2 + 2 = 100 + 2 = 102$

Therefore Value of the expression is 102

Shortcut Trick

We know, if x - 1/x = a, then x2 + 1/x2 = $a^2 + 2$

According to the question,

=> x - 1/x = 10 then, x2 + 1/x^2 = $10^2 + 2 = 102$

Q54. Answer: (b) 256

Given:

7^((m + 1)) = 2401

Concept used:

• if a^n = a^m then we can say n = m

Calculation:

7(m + 1) = 2401

=>7m + 1 = 74

=> m + 1 = 4

=> m = 3

Therefore Value of 2^(2m + 2)= 2^((2 × 3 + 2)) = 2^8 = 256

Q55. Answer: (b) SSS similarity

Given:

all the corresponding sides of the two triangles are in ratio

Concept used:

The Side-Side-Side (SSS) criterion for similarity: If the sides of two triangles are in the same ratio then their corresponding angles are equal and hence the two triangles are similar

Calculation:

so they are similar by the Side-Side-Side (SSS) criterion

Therefore The correct answer is option 2

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Q56. Answer: (b) Obtuse angled

Concept used:

By triangle inequality concept

If there are 3 sides of triangle namely a, b and c so from the above concept

a +b > c or we can say sum of any two sides should be greater than the third side

Also to find if it's obtuse or acute

We know that,

$c^2 > a^2 + b^2$ = Obtuse angle triangle

$c^2 < a^2 + b^2$= Acute angle triangle

$c^2 = a^2 + b^2$ = Right angle triangle

Calculation:

If we assume

a = 3, b = 4, and c = 6

Than

We can only have two conditions satisfied i.e, Obtuse Angle triangle our result will be 25 < 36

Therefore Answer is Obtuse angle triangle

Q57. Answer: (b) 12 : 7

Given:

35% of A is equal to 60% of B

Calculation:

According to the question

=> 35/100 × A = 60/100 × B

=> A/B = 60/35 = 12/7

Therefore the required ratio is 12 : 7

Q58. Answer: (c) 60

Given:

A bag contain equal number of 1 rupee, 50 paisa and 25 paisa coins

Calculation:

Suppose one coin is x

According to the question

x + 0.5x + 0.25x = 105

=> 1.75x = 105

=> x = 105/1.75 = 60

Therefore Number of coins of each denomination is 60

Q59. Answer: (a) 21

Given:

The alcohol and water in a mixture are in the ratio of 7 : 8 respectively. If 11 litre water is added to it, then the ratio of alcohol and water in the new mixture becomes 3 : 5.

Calculation:

Suppose total mixture = 15x liters

Alcohol content = 7/15 × 15x = 7x liters

Water content = 15 - 7 = 8x liters

According to the question,

7x/(8x + 11) = 3/5

=> 35x = 24x + 33

=> 33 = 11x

=> x = 3

Therefore Alcohol content in final mixture 7 × 3 = 21 liters

Shortcut Trick

The alcohol and water are in the ratio of 7 : 8

Now, 11 litre water is added and ratio becomes 3 : 5

So, we have to equal the unit of alcohol in both the ratio

	Alcohol	Water
Before × 3	21	24
After × 7	21	35

So, water is added (35 - 24) = 11 unit → 11 litr

So, quantity of alcohol is 21 unit → 11/11 × 21 = 21 liters

Q60. Answer: (c) 65

Calculation:

Let the initial sum x of ages of 15 members = 15A

According to the question

15A - (45 + 55) + (2 new members) = 15(A + 2)

=> 15A - 100 + (2 new members) = 15A + 30

=> Sum of ages of 2 new members = 130

Therefore Average age of the 2 new members = 130/2 = 65 years

Q61. Answer: (b) 15

Given:

Simple interest on a sum of Rs. 1400 for 3 years and 4 months is Rs. 700

Concept used:

S.I = (P × R × T)/100

Here, P = principal, R = rate, T = time, and S.I = simple interest

Calculation:

According to the question,

=> 700 = (1400 × R × 40)/(100 × 12)

Therefore R = 15%

Q62. Answer: (d) 38

Given:

C.P - S.P = 12.54, Loss percentage is 33%

Concept used:

Loss % = (C.P - S.P)/(C.P) × 100

Calculation:

=> 33 = (12.54)/(C.P) × 100

Therefore C.P = (12.54)/33 × 100 = Rs.38

Q63. Answer: (c) 521

Given:

S.P = Rs. 495, discount = 5%

Calculation:

Let the M.P be 100

S.P = 100x × 95/100

=> 495 = 100x × 95/100

=> x = 495/95

Therefore M.P = (495/95) × 100 = Rs. 521

Shortcut Trick

We know 5% = 1/20

Here, 5% discount is offered, so, M.P = 20 and S.P = 19

According to the question, 19 unit → 495

Then, 20 unit → 495/19 × 20 = Rs.521

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Q64. Answer: (c) (1/0.6)

Given:

$\sqrt{((0.07)^2 + (0.29)^2 - 0.0203)/((0.07)^3 + (0.29)^3)}$

=> $\sqrt{((0.07)^3 + (0.29)^{(3)})/(0.07 + 0.29)/((0.07)^3 + (0.29)^3)}$

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

=> $\sqrt{(1/(0.07 + 0.29))}$

=> $\sqrt{(1/0.36)}$

=> 1/0.6

Therefore 1/0.6 is the answer

Q65. Answer: (b) 4

Given:

X alone can do a piece of work in 12 days and Y alone can do the same work in 6 days

Concept used:

Total work = Efficiency × Time

Calculation:

Let the total work = 12 units

Efficiency of X = 12/12 = 1 unit/day

Efficiency of Y = 12/6 = 2 unit/day

Total efficiency of (X + Y) = 1 + 2 = 3 units/day

Therefore No. of days taken by them to finish the work = 12/3 = 4 days

Q66. Answer: (d) 450

Given:

A 800 metres long train is running at the speed of 90 km/hr

Concept used:

• Speed = Distance/Time

• When a train crosses a bridge then it covers train + bridge's length

Calculation:

Let the length of the bridge is P

Speed in m/sec = 90 × 5/18 = 25 m/sec

According to the question

=> (800 + P)/25 = 50

=> P = 1250 - 800

Therefore P = 450 meters

Q67. Answer: (c) 2014

As we can see in year 2014 only the vacancies were lesser i.e. 25 than its previous year 2013 where it was 95

Q68. Answer: (a) 25

Number of vacancies in 2011 = 50

Number of vacancies in 2014 = 25

Therefore Difference = 50 - 25 = 25

Q69. Answer: (a) 30%

Number of vacancies in 2011 = 50

Number of vacancies in 2015 = 35

Therefore Required comparison = 15/50 × 100 = 30%

Q70. Answer: (b) 13.5

Number of post in 2012 = 90

Therefore Total salary for 90 post = 15000 × 90 = 13.5 lakh

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Q71. Answer: (c) 240

Given:

Diagonal = 26 cm, breath = 10 cm

Concept used:

• Diahonal² = Length² + Breadth²

Calculation:

So length of the rectangle will be

=> Length = √(26)² - (10)²) = √(676 - 100) = √576 = 24

Therefore Area of rectangle = L × B = 24 × 10 = 240 Sq. cm

Q72. Answer: (d) 108

Concept used:

If the number of sides of a regular polygon be n, then

The interior angle = ((n - 2) × 180°)/n

Calculation:

Let the required difference be x.

No. of sides of a regular polygon = 10

According to the question

=> ((n - 2) × 180°)/n - (360°)/n = x

=> ((10 - 2) × 180°)/10 - (360°)/10 = x

=> (8 × 180°)/10 - 36° = x

=> 144 - 36° = x

Therefore x = 108°

Q73. Answer: (d) 501

Given:

length, breadth and height of 10.5 cm, 8 cm and 9 cm respectively

Concept used:

Total surface area of cuboid = 2(lb + bh + hl)

Calculation:

=> 2 (10.5 × 8 + 8 × 9 + 10.5 × 9)

=> 501 cm²

Therefore The correct answer is 501 cm²

Q74. Answer: (c) 1 - √2

Given:

(Cot 45° - √2)

Concept used:

Cot 45° = 1

Calculation:

(Cot 45° - √2)

=> 1 - √2

Therefore the value of the expression is 1 - √2

Q75. Answer: (c) 8

Given:

tan D = 4/3, DE = 6 cm

Concept used:

Tan θ = perpendicular/base

Calculation:

Since tan D = 4/3

We know that Trigonometric identities are only applied to triangles.

So, we draw a triangle in the quadrilateral ADEF.

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Thus, here two triangles are formed, you can apply 'tan D' in any of the triangles. Since the value of DE is given, so we will consider ΔFED

Now, in ΔFED,

tan D = p/b = EF / DE

=> 4/3 = EF/6

=> EF = 4/3 × 6

=> EF = 8 cm

Therefore The correct answer is 8 cm

Q76. Answer: (a) Zamindari System

The correct answer is Zamindari System.

Key Points

• Zamindari System:-

• Permanent settlement was a feature of the Zamindari system.

• It was introduced by Lord Cornwallis in the year 1793.

• It covered India with one-fifth of the British territory, including states such as Orissa, Bengal, Varanasi, parts of Karnataka, and Bihar.

• With Permanent Settlement, the Izaredar system in Bengal came to an end.

Additional Information

• Mahalwari System

• In the North-Western Provinces of the Bengal Presidency (most of this area is now in Uttar Pradesh), an Englishman called Holt Mackenzie devised the new system which came into effect in 1822.

• Under his directions, collectors went from village to village, inspecting the land, measuring the fields, and recording the customs and rights of different groups.

• The estimated revenue of each plot within a village was added up to calculate the revenue that each village (mahal) had to pay. This demand was to be revised periodically, not permanently fixed.

• The charge of collecting the revenue and paying it to the Company was given to the village headman, rather than the zamindar.

• Ryotwari System

• In the British territories in the south, there was a similar move away from the idea of Permanent Settlement.

• The new system that was devised came to be known as the ryotwar (or ryotwari).

• It was tried on a small scale by Captain Alexander Read in some of the areas that were taken over by the Company after the wars with Tipu Sultan.

• Subsequently developed by Thomas Munro, this system was gradually extended all over south India.

Q77. Answer: (a) Manmohan Singh

The correct answer is Manmohan Singh.

Key Points

• Manmohan Singh:-

• Manmohan Singh, an Indian politician, economist, and statesman was the nation's 13th prime minister from 2004 to 2014.

• He was born on September 26, 1932. After Jawaharlal Nehru and Indira Gandhi, he served as prime minister for the third-longest period of time.

• Singh, an Indian National Congress member, served as India's first Sikh prime minister.

• He was also the first prime minister to win reelection following a full five-year tenure since Jawaharlal Nehru.

• Former Prime Minister Dr. Manmohan Singh was the Union Finance Minister of India during the New Economic Policy 1991.

• The main objective of the policy was to plunge the Indian economy into the area of Globalization, to achieve economic stabilization, and also to move towards a higher economic growth rate.

Additional Information

• Pranab Mukherjee:-

• He was the President of India between 2012 and 2017.

• Mr. Mukherjee was the leader of the Indian National Congress.

• He was also Union Finance Minister between 2009 and 2012.

• He was Finance Minister for the first time in 1982-84.

• Awarded with the highest civilian honor by the government of India in 2019, the Bharat Ratna by President Ram Nath Kovind.

• He was also nominated as the leader of Rajya sabha in 1980.

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Q78. Answer: (d) Couple burial

The correct answer is Couple burial.

Key PointsKalibangan:-

• It was a major provincial capital of the Indus Valley Civilization.

• Kalibangan is distinguished by its unique fire altars and "world's earliest attested plowed field".

• It is around 2900 BC that the region of Kalibangan developed into what can be considered a planned city.

• The most important discovery of Kalibangan is a plowed field.

• Rai Bahadur Daya Ram Sahni CIE was an Indian-British raj archaeologist who supervised the excavation of the Indus valley site at Harappa in 1921 and 1922.

• Couple burial was found from Lothal and not Kalibanga.

• Black bangles, fire pit, ploughed field, a wooden furrow, tiled floors, and bricks have been found at Kalibangan. There were no drainage systems there.

Important PointsMajor Sites of Indus Valley Civilization and its findings-

Site	Findings
Harappa	• Piece of Pottery with Indus Script - Cubical Limestone Weight - Faience Slag - Sandstone statues of Human Anatomy - Copper Bullock cart - Granaries - Coffin burials (Only founded in Harrapa) - Terracotta Figurines
Mohenjo-Daro	• Great bath - Granary - Unicorn Seals (Most numbers of it in here) - Bronze dancing girl statue - Seal of a man with deer, elephants, tigers, and rhinos around- Considered to be a Pashupati Seal) - Steatite statue of beard man - Bronze buffalo
Lothal	• Port Town - Graveyard - Ivory weight balance - Copper dog - First manmade port - Dockyard - Rice husk - Fire alters - Chess-playing
Dholavira	• Exclusive water management - Only site to be divided into three parts - Giant water reservoir - Unique water harnessing system - Dams - Embankments - Stadium - Rock – Cut architecture
Banawali	• Beads - Barley - Oval shaped settlement - The only city with radial streets - Toy plough - The largest number of barley grains

Q79. Answer: (c) Hector Munro

The correct answer is Hector Munro.

Key Points

• The English Army in the Battle of Buxar was led by Hector Munro.

• The battle was fought between the East India Company and the combined armies of Mir Qasim, Nawab of Bengal, the Nawab of Awadh, and the Mughal Emperor Shah Alam II on 22nd October 1764 in Buxar, a small town in Bihar.

• The battle was a decisive victory for the British East India Company.

• The war was put to an end by the Treaty of Allahabad in the year 1765.

Additional Information

• Robert Clive:

• He became the Governor of Bengal twice once from 1757-1760 and others from 1765-1767.

• The Dual System of Government was established by him in Bengal.

• Vansittart:-

• He was the Governor from (1760–65).

• The battle of Buxar (1764) took place under his supervision.

• Eyre Coote:-

• Haider Ali was defeated by the army of Eyre Coote at Porto Novo in the Second Anglo Mysore War was held in 1780-84.

Q80. Answer: (c) Earth

The correct answer is Earth.

Key Points

• Earth:-

• It has the highest average density of 5.514 g/cm³
• The Earth is 23 ½ degrees tilted on its axis and thus makes 66 ½ degrees angle.
• It is known as a watery planet or blue planet due to the presence of huge amounts of water in it.
• Earth is the only known planet that provides sustenance or life on it.
• The mass of the Earth is 6 × 1024 kg and the mass of the Moon is 7× 1022 kg.
• Earth is the third planet in our solar system close to the Sun.
• The equator is an imaginary circle that divides Earth into two halves.
• Earth is the fifth-largest planet in the solar system.
• The diameter of the earth is about 8,000 miles.
• Earth has seasons because of the tilt of its axis.

Important Points The densities of all the planets are as follows:

Mercury	**5.427 g/cm³**
Venus	5.243 g/cm³
Earth	5.514 g/cm³
Mars	3.933 g/cm³
Jupiter	1.326 g/cm³
Saturn	0.687 g/cm³
Uranus	1.27 g/cm³
Neptune	1.638 g/cm³

Additional InformationJupiter-
• Jupiter, the most massive planet in the solar system.
• It is fifth in the distance from the Sun.
• It takes nearly 12 Earth years to orbit the Sun, and it rotates once about every 10 hours, more than twice as fast as Earth.
• Jupiter is the largest planet in the Solar System.
• It is a gas giant planet.
• Jupiter's atmosphere is mostly made up of Hydrogen (H2) and Helium (He).

Mars-
• Mars is reddish in color.
• Mars is also known as the Red Planet.
• It is red in color due to the presence of Iron oxides.
• Mars has two moons named Phobos and Deimos.

Mercury-
• Mercury is the smallest and innermost planet in the Solar System.
• Its orbital period around the Sun of 88 days is the shortest of all the planets in the Solar System.

Q81. Answer: (b) Gujarat

The correct answer is Gujarat.

Key Points
• Girnar hills:-
• It is a group of mountains situated in the Junagadh district of Gujarat.
• It is a sacred pilgrimage site of both Hindus and Jains and is considered to be older than even the Himalayas.
• The highest point in Gujarat, Mt. Girnar has for centuries been one of the most important pilgrimage sites in the state and in all of Western India, with 866 Hindu and Jain temples spread over the 5 summits.

Additional InformationPhysiographic Divisions of Bihar:-
• Shiwalik Ranges and Terai Region
• The Ganga Plains
• Southern Plateau Region
• Someshwar Fort:-
• It is the highest peak in Bihar.

• It is part of Shiwalik hill.

• It is situated in the West of the Champaran district.

Mullayanagiri Hill (Karnataka):-

• Mullayanagiri is the highest peak in Karnataka, India.

• Mullayyanagiri is located at 13°23′26″N 75°43′18″E in the Chandra Dhrona Hill Ranges of the Western Ghats of Chikkamagaluru Taluk.

• With a height of 1,930 meters (6,330 ft), It is the fourth highest peak between Nilgiri hills and the Himalayas next to Vavulmala, Chembra Peak, and Banasura Hill.

Guru Shikhar (Rajasthan):-

• The Guru Shikhar is the tallest point in the Aravalli range, rising to an elevation of 1, 722 meters.

• It is also the highest peak of Rajasthan.

• The peak is named Guru Shikhar or “peak of the guru” after Dattatreya, an incarnation of Vishnu.

Q82. Answer: (d) Patna Sahib

The correct answer is Patna Sahib.

Key PointsGuru Gobind Singh:-

• The tenth and the last guru of Sikhs, Guru Gobind Singh was born on 5 January 1666 in Patna, Bihar.

• He became a Guru at the age of 9 on 24 November 1675. He was the tenth and last Guru of Sikhism.

• He introduced the five Ks of Sikhism which refers to the 5 items that a Khalsa Sikh should wear at all times. These are as follows:

• Kesh- uncut hair

• Kangha- a wooden comb for hair

• Kirpan- iron dagger

• Kara- an iron bracelet

• Kachera- cotton tieable undergarments

Important PointsSikh gurus and his works-

S.NO	Sikh Guru	Works
	Guru Nanak (1469-1539)	Founder of Sikhism and Introduced the concept of Langers (Common Kitchen).
	Guru Angad (1539-1552)	He introduced the Gurmukhi Script.
	Guru Amardas Singh (1552-1574)	He introduced the Anand Kharj-Marriage ceremony of Sikhs and is famous for appointing Manji (male Sikh preacher) and Piri (Female Sikh preacher) for preaching religion.
	Guru Ram Das (1574-1581)	He founded the City of Amritsar.
	Guru Arjan Dev (1581-1606)	He laid the foundation of the Golden temple and also compiled Guru Granth Sahib who was executed by Jahangir.
	Guru Hargobind Singh (1606-1644)	He constructed the Akal Takht or the Throne of Immortal.
	Guru Har Rai (1644-1661)	He gave shelter to Dara Shikoh son of Shah Jahan from Aurangzeb (1618-1707).
	Guru Har Krishan (1661-1665)	He was the Youngest of all (5 years of age) and died in the court of Aurangzeb (1618-1707).
	Guru Teg Bahadur (1665-1675)	He established the town of Anandapur and he was executed by Aurangzeb (1618-1707).
	Guru Gobind Singh (1675-1708)	He created Khalsa and last guru in human form.

	Guru Granth Sahib	It is the holy book of Sikhs nominated by Guru Gobind Singh as their Guru. It is also called Adi Granth.

Q83. Answer: (b) 9

The correct answer is 9.

Key Points

• A total of 9 agreements and MoUs were signed by India and Israel on January 15, 2018, which are as follows:

• MoU on Cyber Security Cooperation

• MoU under Oil and Gas sector

• Air Transport Agreement

• Film Co-production Agreement

• MoU for the field of Research in Homeopathic Medicine

• MoU for cooperation in the field of Space

• Memorandum of Intent between Invest India and Invest in Israel

• Letter of Intent for cooperation in the area of metal-air batteries

• Letter of Intent for cooperation in the area of concentrated solar thermal technologies

Additional Information

• Israel:

• Capital - Jerusalem.

• Currency - Israeli Shekel.

• President - Reuven Rivlin.

• Prime Minister - Benjamin Netanyahu.

• National Sport - Association football.

Q84. Answer: (c) Mahendra Singh Dhoni

The correct answer is Mahendra Singh Dhoni.

Key Points

• Mahendra Singh Dhoni:-

• Mahendra Singh Dhoni is an Indian cricketer who captained the Indian team in limited-overs formats from 2007 to 2016 and in Test cricket from 2008 to 2014.

• He was born on 7 July 1981, in Ranchi.

• Former Indian Cricket Captain Mahendra Singh Dhoni was awarded the third highest civilian award Padma Bhushan on April 2, 2018, for his contribution to Cricket.

• He also holds the rank of Honorary Lieutenant Colonel and was seen wearing the official uniform during the ceremony.

Additional Information

• Rahul Sharad Dravid:-

• He is a former cricket player who was appointed as the head of the National Cricket Academy (NCA) in 2019.

• He was the former Indian team Captain and currently, he monitors the progress of India A and India U19.

• He has scored nearly 25,000 runs in international cricket and is widely considered to be one of the best batsmen in cricket history.

• He is also known as the Great wall of the Indian cricket team.

• he became the fifth Indian cricketer to be inducted into the ICC Hall of Fame in July 2018.

• He joined the GoSports Foundation in 2014, in Bangalore.

• Virat Kohli:-

• He is an Indian cricketer and the current captain of the Indian national team.

• He became the first cricketer to be awarded the top three International Cricket Council (ICC) awards: Cricketer of the Year, Test Cricketer of the Year, and ODI Cricketer of the Year in a single year.

Q85. Answer: (d) Himachal Pradesh

The correct answer is Himachal Pradesh.

Key Points

• Himachal Pradesh:-

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• Himachal Pradesh in India does not get the border from Pakistan.

• The India-Pakistan Border runs from the LOC which separates Kashmir in the north, the Zero Point which separates Gujarat and Rajasthan in the south from Sindh in Pakistan, and the Wagah which separates Punjab in the east.

Additional Information

• About Himachal Pradesh

• Capital: Shimla (Summer), Dharamshala (Winter)

• Founded: 25 January 1971

• Chief minister: Jai Ram Thakur

• Governor: Rajendra Arlekar

• Mammal: Snow leopard

• Flower: Bell Rhododendron

• Tree: Deodar cedar

Q86. Answer: (d) All options are correct

The correct answer is All options are correct.

Key Points

• Nylon is a synthetic fiber that is man-made, is light in weight, yet very strong.

• It is a plastic that can be drawn into fibers or moulded into daily products for making amenities.

• Due to these properties, it finds its usage in a variety of things including ropes, toothbrushes, sleeping bags, parachutes, swimwear, track pants, and more.

Important PointsTypes of Nylon-

• Nylon 6- It was developed by Paul Schlack. It is formed by ring-opening polymerization.

• Nylon 510- It is obtained from sebacic and pentamethylene diamine acid.

• Nylon 1,6- It is produced from dinitriles with the help of acid catalysis.

• Nylon 66- Wallace Carothers patented nylon 66 with the use of amide

Uses of Nylon-

• Clothing- Shirts, Foundation garments, lingerie, raincoats, underwear, swimwear, and cycle wear.

• Industrial uses- Conveyer and seat belts, parachutes, airbags, nets and ropes, tarpaulins, thread, and tents.

• The nylon is used to make a fishnet.

• It is used as plastic in manufacturing machine parts

Q87. Answer: (a) I – 2, II – 1, III – 4, IV – 3

The correct answer is I – 2, II – 1, III – 4, IV – 3.

Key PointsCarbon:

• Carbon is used as a fuel.

• Carbon is non-metal that exists in 2 forms and shows allotropism.

• Allotropism is the property of some chemical elements in which the element exists in two different forms in the same physical states and those forms are the allotropes of elements.

• Diamond and graphite are 2 allotropes of carbon.

Copper

• Copper is used in making, Electrical wiring, Roofing, Plumbing, Industrial machinery, etc.

Iron

• Iron is used in machinery.

• Iron is the metal present in group 8 of the periodic table.

• Iron combined with nickel and chromium forms stainless steel.

• Wrought iron is known as the purest form of iron

Aluminum:

• Aluminium is used to wrap food items.

• Aluminium is a chemical element with the symbol Al and atomic number 13.

• Aluminum is soft, non-magnetic, and ductile.

• Aluminium is the most plentiful metal in the earth's crust. It is found in the form of aluminum oxide in an ore called bauxite.

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Q88. Answer: (c) Supreme Court of India

The correct answer is the Supreme Court of India.

Key Points

• As per the Article 32 of the Indian Constitution, if any of the fundamental rights of a citizen is breached, then he can directly go to the Supreme Court of India for seeking ultimate justice.

• Fundamental rights are the basic rights and civil liberties given to common people so that all Indians can lead their lives in harmony and peace as citizens of India. Some of these rights include the right to speech, freedom to practice religion, religious and cultural freedom, and more.

Additional Information

• Article 164 - Governor appoints Chief Minister and later Chief Minister recommends Governor on the appointment of ministers.

• Article 165 - The Governor of each State shall appoint a person who is qualified to be appointed a Judge of a High Court to be Advocate-General for the State.

• Article 78- of the Constitution deals with the duties of the Prime Minister with respect to the furnishing of information to the President.

Q89. Answer: (a) Nagar Panchayat

The correct answer is Nagar Panchayat.

Key Points

• Nagar Panchayat controls the transitional areas (from rural to urban).

• Each Nagar Panchayat comprises of a committee that has a Mayor as its head and other ward members. The functions of Nagar Panchayat is to provide essential facilities and services to the urban area, supply water to every ward, maintain records of births and deaths, and many more.

Additional Information

Municipal council:

• A Municipal Council is constituted of a smaller urban area.

• It is the highest governing body of a municipality.

• Members of the council make all the major decisions affecting the municipality. This includes decisions on education, the construction of new buildings or tax levels.

Municipal corporation:

• A Municipal Corporation is constituted for a larger urban area.

• The urban local government which works for the development of any Metropolitan City with a population of more than one million is known as the Municipal Corporation in India.

• The members of the Municipal Corporation are directly elected by the people and are called Councillors.

• Municipal Corporations are local-level governments in India.

• It’s also called Mahanagar Palika, Nagar Palika, Nagar Nigam, City Corporation, etc.

Q90. Answer: (a) respiration

The correct answer is respiration.

Key Points

• The process of acquiring oxygen from outside the body and using it in the process of breakdown of food sources for cellular needs is commonly called respiration.

• Types of respiration:

• Aerobic respiration is the respiration that takes place with oxygen.

• It is a continuous process that takes place within the cells of animals and plants.

• $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$ + Energy (ATP)

• Anaerobic respiration is respiration that takes place without oxygen.

• In this respiration, microorganism like yeast breaks down glucose into ethyl alcohol, and carbon dioxide and release energy.

• $C_6H_{12}O_6 \rightarrow 2(C_2H_5OH)\ 2CO_2$ + Energy (ATP)

Additional Information

• Nutrition is the process of getting all the necessary nutrients for growth and health through food and water.

• Digestion is the process of breaking down food that we eat into small water-soluble food molecules so that the required nutrients can be absorbed by the blood.

• Transportation is the process of transporting something from one place to another.

Q91. Answer: (c) Both opening and closing of stomata

The correct answer is Both opening and closing of stomata.

Key Points

Stomata

• Stomata are the small openings found on the leaf epidermis.

• It can be found on stems and other plant parts.

• It can be seen beneath the light microscope.

• Stomata structure:

• Two guard cells surround each stoma.

• The kidney-shaped guards contain chloroplasts.

• In the stoma, there is a respiratory chamber.

• Guard cells are the cells which surround each stoma. They are present on the upper and lower epidermis of the leaf.

• Their main function is to open and close the stomata, help regulate transpiration, and protect the stomatal pore.

• Guard cell plays an important role in the gaseous exchange of plant leaves by opening and closing the pore through the stomata.

• In succulent plants, stomata open at night and close during the daytime. through open stomata.

Q92. Answer: (b) Mandi

The correct answer is Mandi.

Key Points

• In August 2017, Indian Government launched a portal to provide a platform to sell agricultural produce called ’e-RAKAM’ (e-Rashtriya Kisan Agri Mandi).

• It is first of its kind initiative that makes use of technology to connect the farmers from small villages to the big markets through the Internet.

Q93. Answer: (b) National Aeronautics Laboratory

The correct answer is National Aeronautics Laboratory.

Key Points

• SARAS PT1N is the new upgraded version of indigenous transport aircraft that has been developed by the National Aeronautics Laboratory.

• It is capable of operating both civil and military operations and also capable of executing day and night missions.

• It successfully completed its first test flight in January 2018.

Q94. Answer: (a) 2.50%

The correct answer is 2.50%.

Key Points

• The N.K. Singh's panel to review India’s fiscal discipline rules has recommended a fiscal deficit of 2.5% of GDP (gross domestic product), by the financial year 2022-23.

• N.K Singh Committee also known as Fiscal Responsibility and Budget Management Act,2003(FRBM), Review Committee.

• N.K Singh Committee submitted its recommendations to Government in January 2017 with the title Responsible Growth: A Debt and Fiscal Framework for 21st Century India.

• Fiscal Council: The committee proposed the creation of an autonomous fiscal council with a Chairman and two members appointed by the Central Government.

• To maintain the autonomy and independence of the fiscal council it proposed a non-renewable four-year term for Chairman and members.

• The role of the Fiscal Council would include:

• preparing multi-year fiscal forecasts.

• recommending changes to the fiscal strategy.

• improving the quality of fiscal data.

• advising the government if conditions exist to deviate from the fiscal target.

• advising the government to take corrective action for non-compliance with the Bill.

Important PointsN.K. Singh-

• The 15th Finance Commission chairman (constituted in 2017) is Nand Kishore Singh.

• He is a former member of the Planning Commission.

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Q95. Answer: (c) 2030

The correct answer is 2030.

Key Points

• On 12 April 2017, Parliament passed the HIV/AIDS (Prevention and Control) Bill, 2017.

• This Bill provides essential support to the National AIDS control programme.

• It aims to achieve the target of ending this Epidemic by the year 2030.

• It is South Asia's first national HIV law.

• The objective of the Act:

• Prevention and control of the spread of HIV/AIDS.

• Protection of the basic human rights of the people suffering from HIV/AIDS.

• The act penalises discrimination against protected persons and lays down provisions for the guardianship of affected minors.

Important PointsAIDS-

• Acquired Immune Deficiency Syndrome (AIDS) is a condition caused by Human Immunodeficiency Virus (HIV), which attacks and weakens the body's immune system.

• World AIDS Day is observed on 1st December every year all over the world to spread awareness about the disease and remember all those who lost their lives to it.

• The theme of World AIDS day for 2022 is Equalize.

Q96. Answer: (b) 0.008

The correct answer is 0.008

Key Points

Frequency (f) = c/ λ = (wave speed in m/s) / (wavelength in m)

so, f = 250/2 = 125 Hz

Time period (in seconds) = 1/f = 1/125 = 0.008 seconds

Q97. Answer: (c) average speed

The correct answer is Average Speed

Key Points

• Average speed: The total path length traveled divided by the total time interval during which the motion has taken place is called the average speed of the particle.

Average speed (bar v) = (total path length (S))/(total time taken (t))

• Instantaneous velocity is the velocity of an object which is in motion at a particular point in time.

• Linear velocity is the rate of change of position of an object travelling along a straight path.

• Acceleration is the increase in rate or speed.

EXPLANATION:

• The ratio of the total distance travelled by a body to the total time taken by it is its average speed. Hence option 3 is correct.

Q98. Answer: (c) Climate

The correct answer is Climate:

Key Points

• The average weather pattern taken over a long time, say 25 years, is called the climate of the place.

• Whereas, the weather is defined as the atmospheric condition of a place for a short duration of time.

• Ecology is a branch of biology that studies and deals with the relationship organisms have with their physical surroundings and also with one another.

• Environment, in general terms, is the natural world or surroundings in which all humans, plants, and animals live.

• A habitat is a natural environment or home to a plant, animal, or any other organism.

Additional InformationEcology-

• Ecology is the study of organisms, the environment, and how the organisms interact with each other and their environment.

• It is studied at various levels, such as organism, population, community, biosphere and ecosystem.

Environment-

• The place, people, things, and nature that surround any living organism are called the environment.

• It is a combination of natural and human-made phenomena.

Habitat-

• The place where organisms live is called the habitat.
• Habitat means a dwelling place (a home). The habitat provides food, water, air, shelter, and other needs to organisms.
• Two main types of habitats and they are further divided.
• Terrestrial habitat: Desert, Mountain, and Grassland
• Aquatic habitat: Ponds, Lakes, and Oceans

Q99. Answer: (b) Only B

The correct answer is Only B

Key Points

• Viktor Axelsen won the Badminton 2017 BWF Super Series Finals Men's Singles.
• In 2017, Anthony Davis played for the NBA team New Orleans Pelicans.
• Sebastian Vettel won the Formula One 2017 Australian Grand Prix. Lewis Hamilton was in the second position.

Q100. Answer: (b) Formatting

The correct answer is Formatting.

Key Points

• In Microsoft Word, formatting refers to the way our text will look like.
• There are certain attributes that fall under it, such as font size, color, alignment, backgrounds, margins, and more. MS Word has got several formatting tools which let you make your text appear just like you want.
• In Microsoft Word, the character formatting options include effect, underline, and font style, while the paragraph formatting option is indentation.

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