SSC CHSL Previous Paper 24 (Held On: 16 Oct 2020 Shift 3) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. 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'.

The new product will be arrive on supermarket shelves only next year.

(a) will arrived on
(b) will arriving on
(c) will arrive on
(d) No improvement

Q2. Select the word which means the same as the group of words given.

An imagined society where everything is perfect and everyone is happy

(a) Evangelist
(b) Utopia
(c) Hypocrite
(d) Responsible

Q3. Select the correct indirect form of the given sentence.

Rama said to me, "I need your help for my new assignment."

(a) Rama said that she was needing my help for her new assignment.
(b) Rama said to me I need your help for my new assignment.
(c) Rama told me that she needed my help for her new assignment.
(d) Rama says that she needs my help for the new assignment.

Q4. Select the correct passive form of the given sentence.

My mother is watching a new serial about the life of Dr. Ambedkar.

(a) A new serial about the life of Dr. Ambedkar is being watched by my mother.
(b) A new serial about the life of Dr. Ambedkar was being watched by my mother.
(c) A new serial about the life of Dr. Ambedkar is watched by my mother.
(d) A new serial about the life of Dr. Ambedkar will be watched by my mother.

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.

Recently, I visited an orphanage for differently-abled (1)____ in Delhi. The courteous staff (2)__ me feel at home and allowed me to interact (3)__ with the children. I was told beforehand that I could carry food packets and items of daily use like stationery, blankets, and clothes (4)__ the children, who were in the age group of five to thirteen. The children were a cheerful lot, the smiles on (5)____ faces reflecting the joy within on receiving gifts.

Q5. Select the most appropriate option for blank number 1.

(a) child
(b) children
(c) children's
(d) child's

Q6. Select the most appropriate option for blank number 2.

(a) made
(b) makes
(c) make
(d) was made

Q7. Select the most appropriate option for blank number 3.

(a) clearly
(b) heartily
(c) freely
(d) truly

Q8. Select the most appropriate option for blank number 4.

(a) by
(b) for
(c) with
(d) of

Q9. Select the most appropriate option for blank number 5.

(a) their
(b) those
(c) them
(d) that

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

TESTIMONY

(a) Difficulty
(b) Disproof
(c) Witness
(d) Approval

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

It is said that children who learn to use their body, mind, and emotions for their own wellbeing, work _____ the wellbeing of others.

(a) forwards
(b) within
(c) towards
(d) into

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

A. Einstein had a deep distaste for enforced learning and was known to skip many of his college lectures.

B. Einstein was also severely critical of the exam-based education system.

C. The great physicist Galileo too said, "You cannot teach anybody anything. You can only help them discover it within themselves."

D. He often felt that formal education interfered with his natural desire to learn and explore.

(a) ACDB
(b) ADBC
(c) DABC

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(d) CABD

Q13. Select the word which means the same as the group of words given.

Incapable of making mistakes

(a) Negligible
(b) Infallible
(c) Inevitable
(d) Ineligible

Q14. In the given sentence, identify the segment which contains a grammatical error.

I think Virat Kohli will remain the captain of the Indian team in a year 2020.

(a) will remain
(b) of the Indian team
(c) in a year 2020
(d) the captain

Q15. Select the most appropriate meaning of the given idiom.

Get something off your chest

(a) Have difficulty in doing something that is quite easy
(b) Remove something from you as it is troubling you a lot
(c) Tell people some good news that you know and you want to share
(d) Express something that has been worrying you, and you want to say

Q16. Select the INCORRECTLY spelt word.

(a) Alligator
(b) Privilage
(c) Judicious
(d) Alimony

Q17. Select the most appropriate word to fill in the blank.

Parents who are very _____ later repent giving their children too much freedom.

(a) different
(b) strict
(c) overbearing
(d) permissive

Q18. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Soon, the idea took its final shape and she started selling barfis under the brand name Harbhajan's and the tagline "You'll remember your childhood".

B. That's when Raveena suggested that she should start selling her signature 'Besan ki Barfi'.

C. Today Harbhajan Kaur is truly living by these words as she now sells tasty barfi and makes good money.

D. It all started in 2016 when 94-year-old Harbhajan's daughter asked her if she had any regrets in life, to which she expressed that she never earned a penny for herself.

(a) DBAC
(b) DCAB
(c) BCDA
(d) CBAD

Q19. Select the most appropriate ANTONYM of the given word.

SPIRITUAL

(a) Righteous
(b) Physical
(c) Pious
(d) Ghostly

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Q20. Select the synonym of the given word.

IDLENESS

(a) Cheerfulness
(b) Energy
(c) Industry
(d) Lethargy

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

REPROACH

(a) Train
(b) Supervise
(c) Indulge
(d) Berate

Q22. Select the INCORRECTLY spelt word.

(a) Practice
(b) Arrangement
(c) Mileage
(d) Changable

Q23. In the given sentence, identify the segment which contains a grammatical error.

We can see much changes in Government schools these days.

(a) We can see
(b) much changes
(c) these days
(d) in Government schools

Q24. Select the most appropriate meaning of the given idiom.

Plain as day

(a) Visible only in broad daylight
(b) Very obvious and easy to understand
(c) Very interesting to know
(d) Very simple and easy to do

Q25. 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'.

After walking a few steps in the forest, our guide sensing some sort of movement in the foliage behind us.

(a) was sensed
(b) had been senses
(c) No improvement
(d) sensed

GENERAL INTELLIGENCE

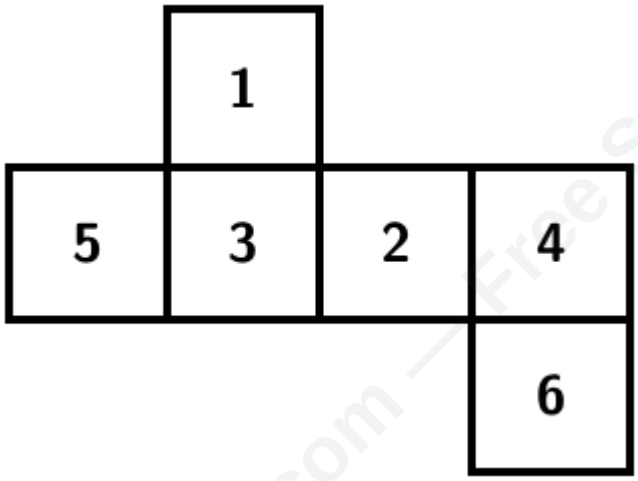
Q26. Select the option that is related to the third number in the same way as the second number is related to the first number.

9 : 72 :: 5 : ?

(a) 39
(b) 35
(c) 25
(d) 20

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Q27. If the following figure is folded to form a cube, then which number will be on the face opposite to the face having number '1'?



(a) 5
(b) 4
(c) 1
(d) 6

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

(a) 600
(b) 441
(c) 324
(d) 393

Q29. 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.

Coach : Player

(a) Captain : Team
(b) Team : Practice
(c) Teacher : Student
(d) Umpire : Cricket

Q30. 'Tree' is related to 'Mango' in the same way as 'Vine' is related to '_____'.

(a) Banana
(b) Grape
(c) Guava
(d) Orange

Q31. Select the set in which the numbers are related in the same way as are the numbers of following set.

(2, 6, 42)

(a) (4, 12, 86)
(b) (1, 2, 6)
(c) (9, 13, 43)
(d) (4, 8, 39)

Q32. 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.

BLISS : STNLF :: STOP : _____

(a) BLSQ
(b) TQST
(c) TTRR

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(d) TTSQ

Q33. Aman has equal number of one, five, ten and twenty rupee bank notes, to make a total of Rs. 1,080. How many bank notes does aman have in total?

(a) 100
(b) 90
(c) 105
(d) 120

Q34. Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

_ _bc_ _ _eaa_ _cde_ _abc_ _ _ea_ _ _cdee

(a) aacdebceabceacd
(b) aacdebceaabccde
(c) aacdebceacdeabc
(d) abceacdeabcacde

Q35. Which two numbers should be interchanged in the following equation to make it correct?

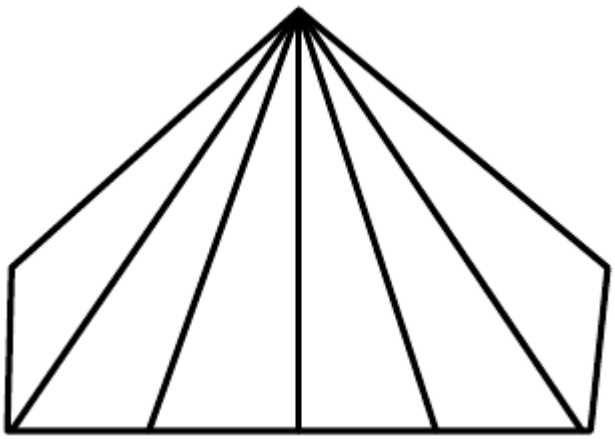
6 + 28 ÷ 4 – 2 × 17 = 12

(a) 28 and 2
(b) 17 and 6
(c) 17 and 4
(d) 6 and 4

Q36. In a certain code language, SKILL is coded as 57, and LOVE is coded as 48. How will LIE be coded as in that language?

(a) 17
(b) 20
(c) 26
(d) 22

Q37. How many triangle are there in the given figure?



(a) 10
(b) 13
(c) 11
(d) 12

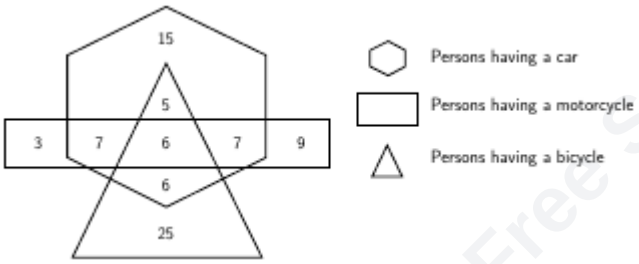
Q38. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(10, 50, 1250)

(a) (9, 45, 945)
(b) (2, 10, 125)
(c) (4, 8, 32)

(d) (4, 20, 300)

Q39. Study the following diagram.



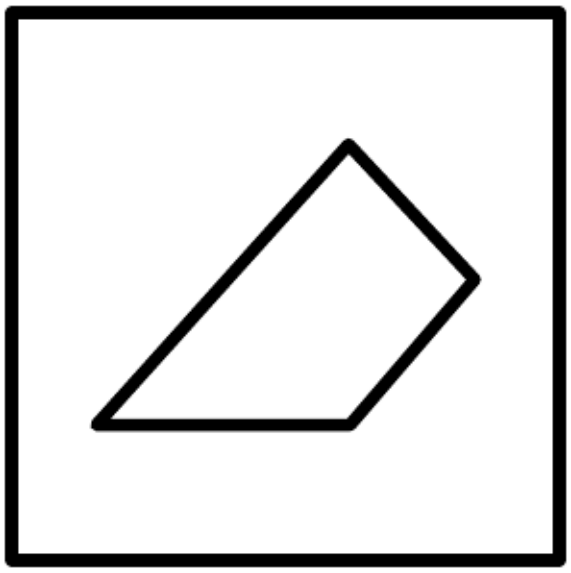
How many persons have only motorcycle?

(a) 3
(b) 12
(c) 9
(d) 32

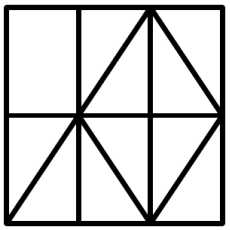
Q40. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

(a) ABCD
(b) WYXZ
(c) IJKL
(d) LMNO

Q41. Select the option in which the given figure is embedded. (Rotation is not allowed)

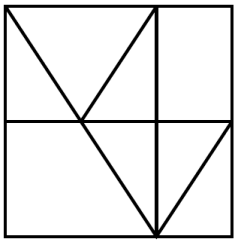


(a)

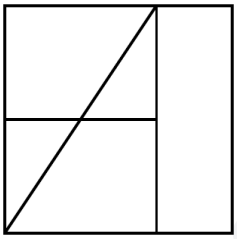


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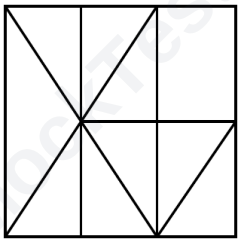
(b)



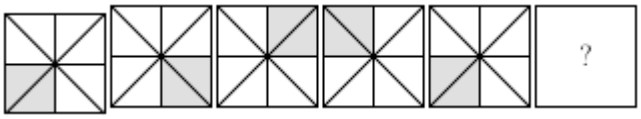
(c)



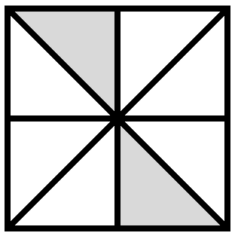
(d)



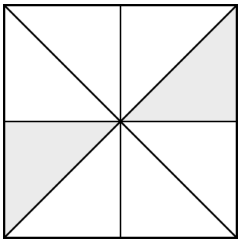
Q42. Select the option figure that will come next in the following series.



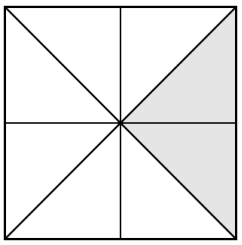
(a)



(b)

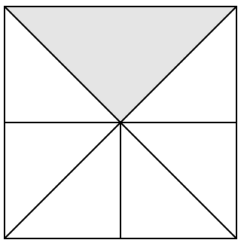


(c)



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(d)



Q43. Arrange the following words in a logical and meaningful order:

1. Letter
2. Postman
3. Delivery
4. Post Box
5. Post Office

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

Q44. Select the number that can replace the question mark (?) in the following series.

5, 3, 3, 5, 15, ?

(a) 59
(b) 69
(c) 45
(d) 39

Q45. Between the siblings A and B, one is a brother and the other sister. B is the son of X. X is Y's husband and O's brother. How is A related to O?

(a) Niece
(b) Granddaugher
(c) Nephew
(d) Cousin

Q46. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

1. Some bananas are green.
2. Some green are yellow.

Conclusions:

I. Some bananas are yellow.
II. Some yellow are bananas.
III. All yellow are bananas.
IV. Some green are bananas.

(a) Only conclusions I and IV follow.
(b) Only conclusions I, II and IV follow.
(c) Only conclusion IV follows.
(d) Only conclusions II and IV follow.

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Q47. Select the letter-cluster that can replace the question mark (?) in the following series.

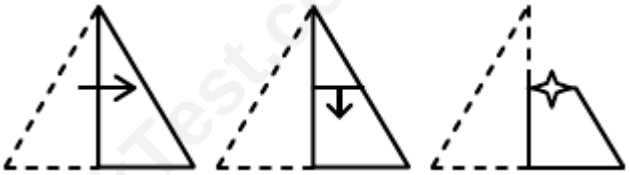
IHUW : HFRS :: LMQT : ?

(a) KKNP
(b) LKPN
(c) LMNO
(d) LNMK

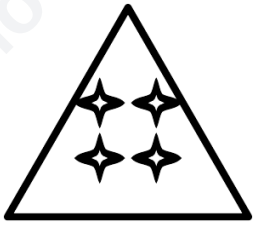
Q48. In a certain code language, SCIENCE is written as TFNLWNR. How will ARTS will be written in that language?

(a) TSRA
(b) BTYZ
(c) BTYA
(d) BUYZ

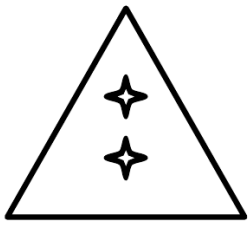
Q49. The sequence of folding a paper and the manner in which the folded paper has been cut as shown in the following figures. How would this paper look when unfolded?



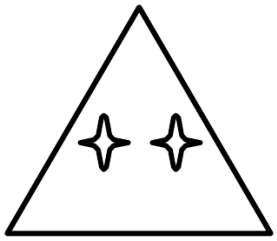
(a)



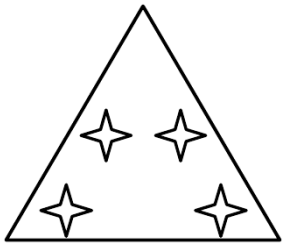
(b)



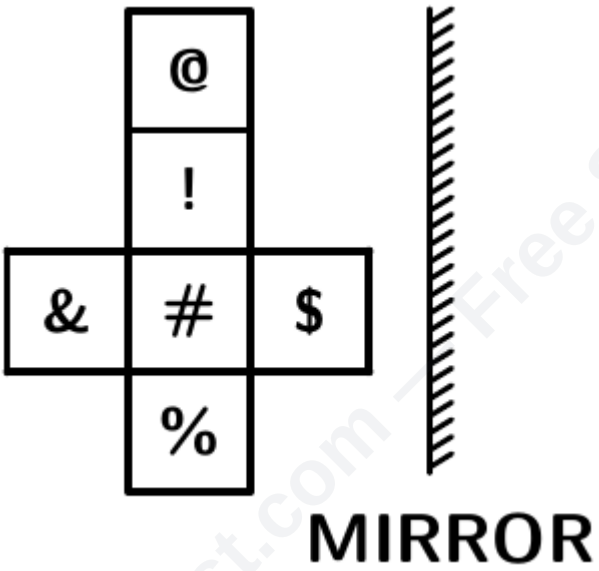
(c)



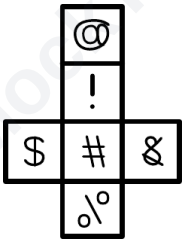
(d)



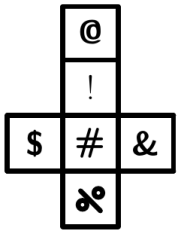
Q50. Which of the following options is the correct mirror image of the given figure?



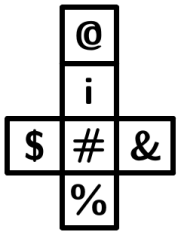
(a)



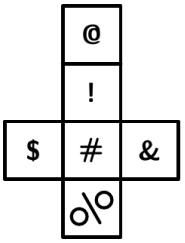
(b)



(c)



(d)



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QUANTITATIVE APTITUDE

Q51. A alone can complete a task in 3 days and B alone can complete the same task in 6 days. In how many days can A and B complete it together?

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

Q52. If a : b = 3 : √5, then the value of (2a + b) : (3a - 2b) is:

(a) 1/61(64 + 21√5)
(b) 1/64(64 + 21√5)
(c) 1/63(64 + 21√5)
(d) 1/62(64 + 21√5)

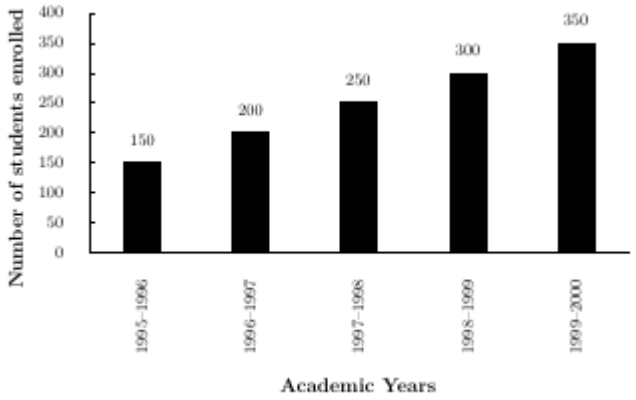
Q53. The distance covered by a train in (x + 1) hours is (x^3 + 1) km. What is the speed of train?

(a) (x^2 - x + 1) km/h
(b) (x^3 - 1) km/h
(c) (x2 + x + 1) km/h
(d) (x + 1) km/h

Q54. In a discount sale of 15%, the selling price of a book is Rs. 2150. Find the marked price of the book.

(a) Rs. 2,250.50
(b) Rs. 1,527.00
(c) Rs. 2,529.41
(d) Rs. 2,2500.00

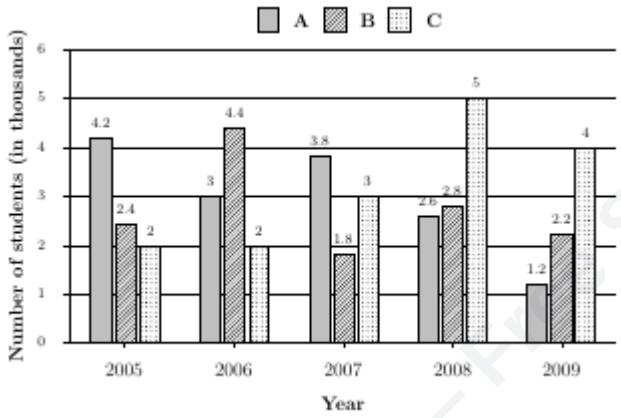
Q55. Study the graph and answer the question that follows.



What is the ratio of enrolment during 1995-1996 to the enrolment during 1998-1999?

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

Q56. The following graph below shows the number of students (in thousands) who were admitted to three different courses in 5 years in a university. Study the graph and answer the question.



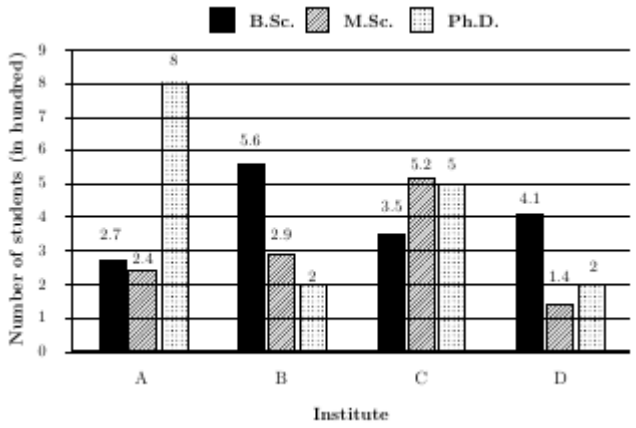
What is the ratio of the number of students who were admitted to course A in the year 2007 to that of students who were admitted to course C in the year 2009?

(a) 9/20
(b) 21/20
(c) 23/20
(d) 19/20

Q57. The radius of a circle is 15 cm and the length of one chord of the circle is 20 cm. What is the distance of the chord from the centre of the circle?

(a) 5√2 cm
(b) 5√3 cm
(c) 3√3 cm
(d) 5√5 cm

Q58. The following graph shows the number of students (in hundreds) in three different courses in four different institutes. Study the graph and answer the question.



What is the total number of students (in hundreds) in M.Sc. course across all institutes?

(a) 11.9
(b) 10.8
(c) 10.5
(d) 11.5

Q59. What will be the area of a circle whose radius is √5 cm?

(a) 2π cm^2
(b) 3π cm2
(c) 5π cm2
(d) π cm2

Q60. If a positive integer 'n' is divisible by 3, 5 and 7, then what is the next larger integer divisible by all these numbers?

(a) n + 105
(b) n + 21
(c) n + 35
(d) n + 110

Q61. If the numerator of a fraction is increased by 15% and the denominator is decreased by 20%, then the fraction, so obtained, is 17/65. What is the original fraction?

(a) 281/1495
(b) 278/1495
(c) 267/1495
(d) 272/1495

Q62. If x + y = 4 and $x^3 + y^3 = 12$, then the value of x^4 + y^4 = ?

(a) 146/9
(b) 146/3
(c) 146/5
(d) 146/7

Q63. At which rate of simple interest does an amount become double in 12 years?

(a) 8%
(b) 8(1/3) %
(c) 7(2/3) %
(d) 8(4/5) %

Q64. If x - y = 13 and xy = 25, then the value of $x^2 - y^2$ = ?

(a) 13√229
(b) 13√210
(c) 13√269
(d) 13√240

Q65. The cost price of 33 books is the same as the selling price of 'x' books. If the profit is 10%, then the value of 'x' is:

(a) 30
(b) 10
(c) 40
(d) 20

Q66. What is the area of an equilateral triangle of side 4√3 cm?

(a) 16√3 cm^2
(b) 20√3 cm^2
(c) 15√3 cm^2
(d) 12√3 cm^2

Q67. What is the value of cot 35°cot 40°cot 45°cot 50°cot 55°?

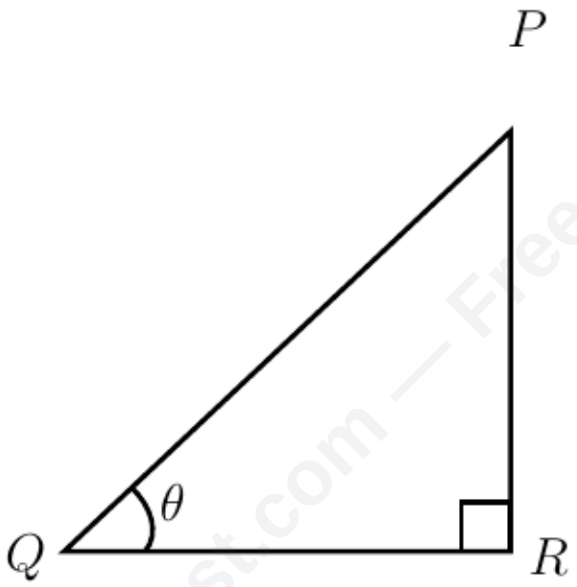
(a) 1
(b) 0
(c) 2
(d) -1

Q68. The value of x, if $2\sin^2 x = 2 - 3\sin x$, is:

(a) π/2
(b) π/4
(c) π/3
(d) π/6

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Q69. In the given figure, if PQ = 13 cm and PR = 12 cm then the value of sin θ + tan θ = ?



(a) 218/5
(b) 213/5
(c) 216/13
(d) 216/65

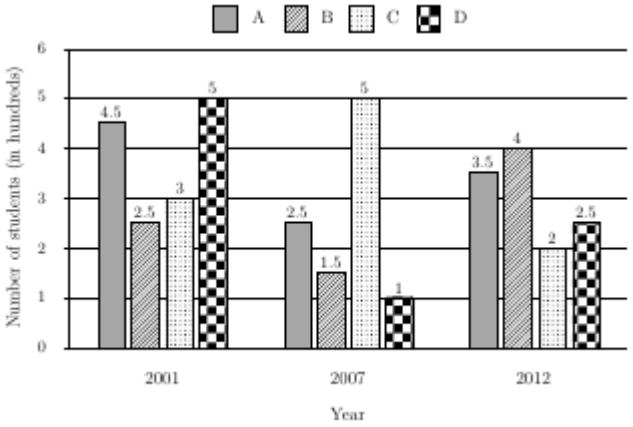
Q70. A person walks a distance from point A to B at 15 km/h, and from point B to A at 30 km/h. If he takes 3 hours to complete the journey, then what is the distance from point A to B?

(a) 30 km
(b) 25 km
(c) 10 km
(d) 15 km

Q71. The ratio of three angles of a triangle is 1 : 3 : 5. Which is the measure of the greatest angle?

(a) 80°
(b) 100°
(c) 60°
(d) 120°

Q72. The following bar graph shows the number of students (in hundreds) who have opted for different courses A, B, C and D in 3 years in a college. Study the graph and answer the question.



In the year 2007, the average number of students across the four courses is (in hundreds):

(a) 2.5
(b) 1.5

(c) 2.2
(d) 2.7

Q73. (9 + 3 – 16 ÷ 4 + 10) + {(3 + 5 × 2 ÷ 10)} × (18 – 4 of 5) = ?
(a) 5
(b) 10
(c) 15
(d) 8

Q74. If two concentric circles are of radii 13 cm and 12 cm, respectively, then the length of the chord of the larger circle which touches the smaller circle is:
(a) 25 cm
(b) 15 cm
(c) 10 cm
(d) 35 cm

Q75. In a set of three numbers, the average of the first two numbers is 7, the average of the last two numbers is 10, and the average of the first and the last numbers is 14. What is the average of the three numbers?
(a) 29/4
(b) 31/3
(c) 25/4
(d) 37/3

GENERAL AWARENESS

Q76. Which of the following statements is NOT correct about Rajya Sabha?
(a) Twelve of its members are nominated by the President.
(b) It has powers that protect the rights of states against the union.
(c) It is the upper house of the Parliament of India.
(d) It can amend a money bill.

Q77. Which of the following plates has the slowest rate of movement at less than 2.5 cm/year?
(a) Arctic Ridge
(b) East Pacific Ridge
(c) North American Plate
(d) Mid-Atlantic Ridge

Q78. Which dynasty did not have its capital in South India?
(a) Chola
(b) Chera
(c) Pallava
(d) Pala

Q79. From which of the following states does the Tropic of Cancer pass?
(a) Assam
(b) Nagaland
(c) Manipur
(d) Mizoram

Q80. A/an _____ is a central server on a computer network that enables connected clients to access the server's storage capacities.
(a) web server
(b) application server
(c) print server
(d) file server

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Q81. Third generation computers used _____.

(a) VLSI technique
(b) Transistors
(c) Vacuum tubes
(d) Integrated circuits

Q82. Who among the following was dropped from the All India Council of Sports (AICS) in January 2020 for not being "active" enough?

(a) Viswanathan Anand
(b) Pullela Gopichand
(c) Harbhajan Singh
(d) K Srikkanth

Q83. The part of the land which is almost surrounded by water from all three sides but connected to the mainland on one side is called _____.

(a) Strait
(b) Island
(c) Isthmus
(d) Peninsula

Q84. Which of the following is a popular dance form of Lakshadweep island?

(a) Kathak
(b) Kuchipudi
(c) Koli
(d) Kolkali

Q85. As per the eighth Schedule of the Constitution of India, how many languages are referred to as scheduled languages?

(a) 18
(b) 22
(c) 20
(d) 14

Q86. Which application was launched by Reserve Bank of India in January 2020 to help visually challenged people identify new currency notes?

(a) MANI
(b) NEFT
(c) DRI
(d) OLTAS

Q87. Which of the following is NOT a central economic problem, which is solved by the production possibility curve (PPC)?

(a) Continuous use
(b) Full use of resources
(c) Economic efficiency
(d) Economic development

Q88. 'Leukopenia' is an abnormal _____.

(a) decrease in red blood cells
(b) decrease in white blood cells
(c) increase in red blood cells
(d) increase in white blood cells

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Q89. The carbon and energy requirements of autotrophic organisms are met through the process of _____.

(a) Photoautotrophs
(b) Photosynthesis
(c) Hibernation
(d) Biosynthesis

Q90. Which stadium was renamed as Arun Jaitley Stadium in 2019?

(a) Eden Gardens
(b) Wankhede Stadium
(c) Feroz Shah Kotla Ground
(d) Green Park

Q91. India got its first 3D Smart Traffic Signal System in August 2019. This system was designed by students of _____.

(a) Chitkara University
(b) IIT-Mumbai
(c) I. K. Gujral Punjab Technical University
(d) IISC-Bangalore

Q92. Who was the youngest Member of Parliament to be elected in 2019?

(a) Mimi Chakraborty
(b) Nusrat Jahan
(c) Chandrani Murmu
(d) Tejasvi Surya

Q93. 1° latitude is equal to approximately _____ km.

(a) 111
(b) 122
(c) 145
(d) 133

Q94. Who was India's first Chief of Defence Staff?

(a) General Vijay Kumar Singh
(b) General Manoj Mukund Naravane
(c) General Arjan Singh
(d) General Bipin Rawat

Q95. Pineapple is a _____ plant.

(a) Mesophyte
(b) Xerophyte
(c) Hydrophyte
(d) Hygrophyte

Q96. The fifth incarnation of Vishnu is known as _____.

(a) Varah
(b) Krishna
(c) Vamana
(d) Narsingh

Q97. India's 'National Sports Day' coincides with the birthday of which sportperson?

(a) Syed Abdul Rahim
(b) Kapil Dev
(c) Dhyan Chand
(d) Milkha Singh

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Q98. 'Piklihal' and 'Utnur' are important _____ sites.

(a) Monolithic
(b) Megalithic
(c) Paleolithic
(d) Neolithic

Q99. Who among the following has won the 'JCB Prize for Literature 2019'?

(a) Shanta Gokhale
(b) Manu S Pillai
(c) Madhuri Vijay
(d) Akkitham Achuthan Namboothiri

Q100. Who is the author of the book 'Reset: Regaining India's Economic Legacy'?

(a) Subramanian Swamy
(b) Abhijeet Banerjee
(c) Suketu Mehta
(d) Raghuram Rajan

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) will arrive on

The correct answer is 'will arrive on'.

Key Points

• The given sentence is grammatically incorrect.

• Here, 'be' is used wrongly. We know that when the sentence is in the future continuous tense 'be + V1+ ing' is used. But here 'be' is used without 'ing' form.

• The given sentence is in the 'Future Indefinite' tense. And using 'ing' with 'arrive' makes the sentence incorrect.

• This tense is used when the action is to take place in the future.

• The adverbs which indicate future indefinite actions are: soon, in a few moments, tomorrow, next year/month/week.

• And we know that the structure of future indefinite tense is: Subject + shall/will + V1+ Object.

• Therefore, the correct answer is Option 3.

Correct Answer: The new product will arrive on supermarket shelves only next year.

Additional Information

• The structure of the future progressive tense is as follows:

• The future progressive tense is used when the action is going on or continuing in the future.

• Subject + shall/will + be + v1+ ing + object.

• Example: They will be playing chess in the common room.
• The future progressive action can be written at 'the point of time'.
• Example: It will probably be snowing when you reach Switzerland.

Q2. Answer: (b) Utopia

The correct answer is 'Utopia'.

Key Points

• The most appropriate one-word for the given group of words is 'Utopia'.
• Let's look at the meaning and examples of the given options:
• | Evangelist | a person who tries to persuade people to become Christians, often by travelling around and organizing religious meetings | The evangelist wanted to preach at the Charlotte Coliseum. |

Utopia	**a perfect society in which people work well with each other and are happy**	**Try and imagine a perfect society, a utopia, in which the government really got everything right.**
Hypocrite	a situation in which someone pretends to believe something that they do not really believe or that is the opposite of what they do or say at another time	There's one rule for her and another rule for everyone else and it's sheer hypocrisy.
Responsible	to have control and authority over something or someone and the duty of taking care of it, him, or her	Her department is responsible for overseeing the councils.

• Therefore, by reading the above explanations we find that the correct answer is Option 2.

Q3. Answer: (c) Rama told me that she needed my help for her new assignment.

The correct answer is 'Rama told me that she needed my help for her new assignment.'

Key Points

• The given sentence is in Direct Speech. As per the given question, we have to change it into Indirect Speech.
• The process of transformation is as follows:
• 'Said to' will be changed into 'told' because we know that when the reporting verb has the object 'said to' is changed into 'told'.
• Comma and inverted commas will be removed.
• 'That' conjunction will be added.
• 'I' will be changed into 'she'. We know that the first person pronoun is changed according to the subject of the reporting verb.
• 'Need' will be changed into 'needed'.
• 'Your' will be changed into 'my'. We know that the second person pronoun is changed according to the object of the reporting verb.
• 'My' will be changed into 'her'.
• Therefore, the correct answer is Option 3.

Correct Answer: Rama told me that she needed my help for her new assignment.

Additional Information

• Transformation of Imperative Sentences.
• 'Orders', 'Command', 'Request', 'Advice' are given in these kinds of sentences.
• Reporting Verb is changed into 'ordered, advised, requested, commanded, beg, forbade, suggested, proposed, assured, asked, reminded, warned, agreed, refused, promised', etc.
• Inverted Commas will be removed. And conjunction 'to/not to' will be used.
• Example:
• He said, "Mohan, please bring me my towel." (Direct Speech)
• He requested Mohan to bring him his towel. (Indirect Speech)

Q4. Answer: (a) A new serial about the life of Dr. Ambedkar is being watched by my mother.

The correct answer is 'A new serial about the life of Dr. Ambedkar is being watched by my mother.'

Key Points

• The given sentence is in Active Voice. As per the question, we have to change it into Passive Voice.
• The process of transformation is as follows:

• The subject of the sentence is "My mother".
• The object of the sentence is "a new serial".
• We know that in Active to Passive transformation the subject will be put in the place of the object and the object will be put in the place of the subject.
• 'Is watching' will be changed into 'is being watched'. We know that 'V1+ ing' is changed into 'Being + V3'.
• Therefore, the correct answer is Option 1.

Correct Answer: A new serial about the life of Dr. Ambedkar is being watched by my mother.

Additional Information

• The transformation of imperative sentences:
• If someone gives a command, do request, express a desire or wish, in sentences then such sentences are called an imperative sentence.
• If the notion of a sentence is 'Command' then structure:
• V1 + Object. (Active Voice)
• Let + subject + be + V3. (Passive Voice)
• Example:
• Teach your students. (Active Voice)
• Let your students be taught. (Passive Voice)
• If the notion of a sentence is that of an 'Order', then structure:
• V1 + Object. (Active Voice)
• You are ordered + V 1+ Object. (Passive Voice)
• Example:
• Drive the car. (Active Voice)
• You are ordered to drive the car. (Passive Voice)

Q5. Answer: (b) children

The correct answer is 'children'.

Key Points

• The most appropriate word for the given fill in blank is 'children'.
• The author is talking about visiting an orphanage. We know that an orphanage is a place for children whose parents are dead or unable to care for them.
• An orphanage has many children.
• In the given fill in blank Option 1 cannot be the answer because it is singular. Here, a plural form should be used. We know that the plural form of 'child' is 'children'.
• Therefore, the correct answer is Option 1.

Correct Answer: Recently, I visited an orphanage for differently-abled children in Delhi.

• We tend to mark Option 3 but it would be wrong because "Children's" means belonging or relating to children.
• It shows possession. But here, a plural form should be used.
• Example: 'children's clothes' or 'children's literature'.
• Therefore, the correct answer is Option 1.

Q6. Answer: (a) made

The correct answer is 'made'.

Key Points

• The most appropriate word to fill in the blank is 'made'.
• The given sentence "The courteous staff_____me feel at home and allowed..." is in the past tense.
• Therefore, the second form of the verb will be used.
• Hence, the correct answer is Option 1.

Correct Answer: "The courteous staff made me feel at home and allowed..."

• We tend to go for Option 3 but it would be wrong because the given sentence is in the past tense.
• Therefore, the correct answer is Option 1.

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Q7. Answer: (c) freely

The correct answer is 'freely'.

Key Points

• All the options are examples of adverbs. Adverbs often end in -ly, but some (such as fast) look exactly the same as adjectives.
• The meanings of the given options are as follows:
• Clearly: in a way that is easy to see, hear, read, or understand
• Example: I'm afraid I'm not expressing myself very clearly.
• Heartily: enthusiastically, energetically, and often loudly
• Example: She laughed heartily at the joke.
• Freely: without being controlled or limited
• Example: For the first time in months, she could move freely.
• Truly: used to emphasize that what you are saying is true
• Example: This is a truly remarkable achievement.
• We know that If someone gives or does something freely, they give or do it willingly, without being ordered or forced to do it.
• Therefore, by reading the above explanations we find that the correct answer is Option 3.

Correct Answer: "to interact freely with the children..."

Q8. Answer: (b) for

The correct answer is 'for'.

Key Points

• The most appropriate word for the given fill in the blank is 'for'.
• The preposition 'for' will be used here because in order to help someone, we use the preposition 'for'.
• Example: My sister will take care of the dog for us while we're away.
• Therefore, the correct answer is Option 2.

Correct Answer: "I was told beforehand that I could carry food packets and items of daily use like stationery, blankets, and clothes for the children..."

Additional Information

• The other usage of the preposition 'For':
• It is used to mean "because of or as a result of something"
• Example: She did 15 years in prison for murder.
• It is "used to show an amount of time or distance"
• Example: She's out of the office for a few days next week.
• It is "used for comparing one thing with others of the same type"
• Example: The winter has been unusually cold for Florida.

Q9. Answer: (a) their

The correct answer is 'their'.

Key Points

• In the given question, the possessive adjective of 'they', that is, 'their' should be used.
• It indicates possession by people or things. More specifically, "their" is a possessive adjective.
• It replaces the noun in a sentence.
• Instead of saying, "That's the John family's new dog," we can say, "That's their new dog."
• While "his" and "her" demonstrate singular possession (possession by one person), "their" is reserved for two or more people or things.
• In the given sentence 'their' is used for all the children of the orphanage.
• Therefore, the correct answer is Option 1.

Correct Answer: "The children were a cheerful lot, the smiles on their faces reflecting the joy within on receiving gifts."

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Q10. Answer: (b) Disproof

The correct answer is 'Disproof'.

Key Points

• The most appropriate antonym of the given word is 'Disproof'.

• Let's look at the meaning and examples of the given words:

• | Testimony | (an example of) spoken or written statements that something is true, especially those given in a law court | Some doubts have been expressed about his testimony. |

Disproof	**a set of facts that prove that something is untrue.**	**Rex was living disproof of the youth-preserving powers imputed to life in the college**
Difficulty	the fact of not being easy to do or understand	We finished the job, but only with great difficulty.
Witness	a person who sees an event happening, especially a crime or an accident	Police are appealing for witnesses to the accident to come forward.
Approval	the feeling of having a positive opinion of someone or something	He showed his approval by smiling broadly.

• Therefore, by reading the above definitions, we find that the correct answer is Option 2.

Q11. Answer: (c) towards

The correct answer is 'towards'.

Key Points

• In the given sentence, 'towards' should be used.

• Let's look at the meaning of 'towards'. It is used differently in different situations:

• towards (preposition) (MOVEMENT):

• in the direction of, or closer to someone or something

• Example: She kept glancing towards the phone.

• towards (preposition) (RELATION):

• in relation to something or someone

• Example: There has been a change in government policy towards energy efficiency.

• towards (preposition) (POSITION):

• near to, just before, or around a time or place

• Example: Our seats were towards the back of the theatre.

• towards (preposition) (PURPOSE):

• for the purpose of buying or achieving something

• Example: The work that students do during the term counts towards their final grade.

• In the given question, 'towards' is used to denote a purpose.

• All the other options are grammatically incorrect here because of their different meanings.

• Therefore, the correct answer is Option 3.

Correct Answer: It is said that children who learn to use their body, mind, and emotions for their own wellbeing, work towards the wellbeing of others.

Q12. Answer: (b) ADBC

The correct answer is 'ADBC'.

Key Points

• The given sentence is an example of a Sentence Jumble.

• The first statement of a sentence jumbled question is usually an independent general statement, a noun, a universal fact, the starting of an incident, or it starts with 'most' or 'once'.

• Part A will be the first sentence because it is talking about a past happening. It talks about Einstein's distaste for 'forced' learning.

• Part D will be the next sentence because it explains what he felt about formal education. It seems that Einstein was not happy with the way the education system works.

• Einstein was critical of the exam-based education system. Therefore, the next sentence will be Part B.

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• Lastly. Part C will be used because what Einstein thinks is also supported by the statement of Galileo. Galileo said that "You cannot teach anybody anything. You can only help them discover it within themselves".

• Therefore, the correct answer is Option 2.

Correct Answer: Einstein had a deep distaste for enforced learning and was known to skip many of his college lectures. He often felt that formal education interfered with his natural desire to learn and explore. Einstein was also severely critical of the exam-based education system. The great physicist Galileo too said, “You cannot teach anybody anything. You can only help them discover it within themselves.”

Q13. Answer: (b) Infallible

The correct answer is 'Infallible'.

Key Points

• The most appropriate one-word for the given group of words is 'Infallible'.

• Let's look at the meaning and examples of the given options:

• | Negligible | too slight or small in amount to be of importance | The difference between the two products is negligible. |

Infallible	**never wrong, failing, or making a mistake**	**Even the experts are not infallible.**
Inevitable	certain to happen and unable to be avoided or prevented	The accident was the inevitable consequence of carelessness.
Ineligible	not allowed to do or have something, according to particular rules	He was declared ineligible for the competition because he worked for the company that ran it.

• Therefore, by reading the above explanation we find that the correct answer is Option 2.

Q14. Answer: (c) in a year 2020

The correct answer is 'in a year 2020'.

Key Points

• The given sentence is grammatically incorrect.

• The erroneous part 'in a year 2020' should 'in the year 2020'.

• 'A year' can be any year without any specification. But 'the year' means a particular/specified year or the one which is already mentioned and thereby known.

• Example:

• In a year, there are twelve months. (means any year or all years)

• I was born in the year 2000. (in that particular year)

• The given sentence is talking about a particular year when Virat Kohli will remain the captain.

• Therefore, the correct answer is Option 3.

Correct Answer: I think Viral Kohli will remain the captain of the Indian team in the year 2020.

Additional Information

• 'The' can be used with uncountable nouns, or the article can be omitted entirely.

• Example:

• I love to sail over the water. (some specific body of water)

• I love to sail over water. (any water)

• **Do use 'the' before:

• names of rivers, oceans, and seas: the Nile, the Pacific

• points on the globe: the Equator, the North Pole

• geographical areas: the Middle East, the West

• deserts, forests, gulfs, and peninsulas: the Sahara, the Persian Gulf, the Black Forest, the Iberian Peninsula

Q15. Answer: (d) Express something that has been worrying you, and you want to say

The correct answer is 'Express something that has been worrying you, and you want to say'.

Key Points

• The most appropriate meaning of the given idiom is 'Express something that has been worrying you, and you want to say'.

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• Get something off your chest: to express something that has been worrying you and that you have wanted to say
• Example: I thought these meetings would help the kids get some of their worries off their chests.
• By reading the above definition, we find that the correct answer is Option 4.

Correct Answer: Express something that has been worrying you, and you want to say.

Additional Information

• The other idioms from the word 'Get' are:
• Get socked with something: to suddenly receive something that causes you problems
• Example: If you don't pay your credit card bill on time, you'll get socked with a huge late fee.
• Get someone's wires crossed: to have a different understanding of the same situation
• Example: We must have got our wires crossed – I thought she was arriving tomorrow, not today.
• Get something out of your system: to do something enough so that you do not want to do it any longer
• Example: Let the kids run around a little longer, maybe they'll get it out of their system.

Q16. Answer: (b) Privilage

The erroneous spelling is 'Privilage'.

Key Points

• In the given options, we find that the correct answer is 'Privilage'. The correct spelling of it is 'Privilege'.
• Let's look at the meaning and examples of the given options:

Alligator	**a large reptile with a hard skin that lives in and near rivers and lakes in the hot, wet parts of America and China.**	**There are sharks in the water, alligators on the island, and a hidden explosive in the boat.**
Privilege	an advantage that only one person or group of people has, usually because of their position or because they are rich	Healthcare should be a right, not a privilege.
Judicious	having or showing reason and good judgment in making decisions	We should make judicious use of the resources available to us.
Alimony	a regular amount of money that a law court orders a person to pay to his or her partner after a divorce	The husband would be forced to pay his wife alimony for the rest of his life.

• Therefore, by reading the above definition, we find that the correct answer is Option 2.

Q17. Answer: (d) permissive

The correct answer is 'permissive'.

Key Points

• The most appropriate word for the given blank is 'permissive'.
• Let's look at the meaning and examples of the given words:
• | Different | not the same | She seems to wear something different every day. |

Strict	**strongly limiting someone's freedom to behave as they wish, or likely to severely punish someone if they do not obey**	**My parents were very strict with me when I was young.**
Overbearing	too confident and too determined to tell other people what to do, in a way that is unpleasant	Milligan had a pompous, overbearing father.
Permissive	A person or society that is permissive allows behaviour that other people might disapprove of	He claims that society has been far too permissive towards drugs.

• By reading the above explanations we find that the correct answer is 'permissive'. Because "Those parents who are permissive later repent".
• Therefore, the correct answer is Option 4.

Correct Answer: Parents who are very permissive later repent giving their children too much freedom.

Q18. Answer: (a) DBAC

The correct answer is 'DBAC'.

Key Points

• The given sentence is an example of Sentence Jumble.

• The first statement of a sentence jumbled question is usually an independent general statement, a noun, a universal fact, the starting of an incident, or it starts with 'most' or 'once'.

• Part D will be the first sentence because it is the starting of an incident. It is talking about 2016, and the regrets in the life of Harbhajan's daughter.

• Part B will be the next sentence because Part D talks about 'The regrets in the life of Harbhajan's daughter that she had never earned a penny for herself' and Part B further tells us about 'Raveena's' suggestion that she could start selling 'Besan ki Barfi'.

• Part A will be the next sentence because Part B talks about the idea of selling selling 'Barfi', and Part A further explains how that idea took shape.

• Lastly, Part C will be used because it is a concluding remark. It tells how 'Harbhajan Kaur's' life has changed.

Correct Answer: It all started in 2016 when 94-year-old Harbhajan's daughter asked her if she had any regrets in life, to which she expressed that she never earned a penny for herself. That's when Raveena suggested that she should start selling her signature 'Besan ki Barfi'. Soon, the idea took its final shape and she started selling barfis under the brand name Harbhajan's and the tagline "You'll remember your childhood". Today Harbhajan Kaur is truly living by these words as she now sells tasty barfi and makes good money.

Q19. Answer: (b) Physical

The correct answer is 'Physical'.

Key Points

• The most appropriate antonym of the given word is 'Physical'.

• Let's look at the meaning and examples of the given words:

• | Spiritual | relating to deep feelings and beliefs, especially religious beliefs | Traditional ways of a life fulfilled both economic and spiritual needs. |

Physical	**relating to the body**	**I'm not a very physical sort of person.**
Righteous	morally correct	He was regarded as a righteous and holy man.
Pious	strongly believing in religion, and living in a way that shows this belief	She is a pious follower of the faith, never missing her prayers.
Ghostly	pale and transparent in a way that does not seem real, like a ghost	Ghostly shapes loomed out of the fog.

• Therefore, by reading the above definition, we find that the correct answer is Option 2.

Q20. Answer: (d) Lethargy

The correct answer is 'Lethargy'.

Key Points

• The most appropriate synonym of the given word is 'Lethargy'.

• Let's look at the meaning and examples of the given words:

• | Idleness | not working or being used | Jumping into an exercise routine after weeks of idleness can cause muscle soreness. |

Lethargy	**the feeling of having little energy or of being unable or unwilling to do anything**	**Symptoms include loss of appetite, lethargy, and vomiting.**
Cheerfulness	the state of being happy and positive	His cheerfulness and modesty were rooted in a happy childhood.
Energy	the power and ability to be physically and mentally active	Since I started eating more healthily I've got so much more energy.
Industry	the companies and activities involved in the process of producing goods for sale, especially in a factory or special area	The strike seriously reduced coal deliveries to the industry.

• Therefore, by reading the above definition, we find that the correct answer is Option 4.

Q21. Answer: (d) Berate

The correct answer is 'Berate'.

Key Points

• The most appropriate synonym for the word 'Reproach' is 'Berate'.

• Let's look at the meaning and example of the given words:

• | Reproach | to criticize someone, especially for not being successful or not doing what is expected | His mother reproached him for not eating all his dinner. |

Berate	**to criticize or speak in an angry manner to someone**	**As he left the meeting, he was berated by angry demonstrators.**
Train	to prepare someone or yourself for a job, activity, or sport, by learning skills and/or by mental or physical exercise	She trained hard for the race, sometimes running as much as 60 miles a week.
Indulge	to allow yourself or another person to have something enjoyable, especially more than is good for you	I love champagne but I don't often indulge myself.
Supervise	to watch a person or activity to make certain that everything is done correctly, safely, etc.	The UN is supervising the distribution of aid by local agencies in the disaster area.

• Therefore, by reading the above definition, we find that the correct answer is Option 4.

Q22. Answer: (d) Changable

The correct answer is 'Changable'.

Key Points

• In the given options 'Changable' is incorrectly spelt. Its correct spelling is 'Changeable'.

• Let's look at the meaning and examples of the given words:

• | Practice | action rather than thought or ideas | How do you intend to put these proposals into practice, Mohamed? |

Arrangement	**a plan for how something will happen**	**They'd made all the arrangements for the party.**
Mileage	the distance that a vehicle has travelled or the distance that it can travel using a particular amount of fuel	Smaller cars have better mileage and so cost less to run.
Changeable	often changing	The weather in Britain is notoriously changeable.

• Therefore, by reading the above definition, we find that the correct answer is Option 4.

Q23. Answer: (b) much changes

The correct answer is 'much changes'.

Key Points

• The given sentence is grammatically incorrect.

• The erroneous part 'much changes' should be 'many changes'.

• We use 'much' with 'singular uncountable nouns' and 'many' with 'plural nouns'.

• Example:

• I haven’t got much change. I’ve only got a ten euro note.

• Are there many campsites near you?

• Here, in the given question, the word 'changes' is quantifiable. And 'changes' is a plural noun also.

• Therefore, the correct answer is Option 2.

Correct Answer: We can see many changes in Government schools these days.

Additional Information

• We use the quantifiers much, many, a lot of, lots of to talk about quantities, amounts, and degree. We can use them with a noun (as a determiner) or without a noun (as a pronoun).

• In informal styles, we prefer to use 'lots of or a lot of'.

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• Example:
• I went shopping and spent much money.
• I went shopping and spent a lot of money.

Q24. Answer: (b) Very obvious and easy to understand

The solution is in Hindi. Read it online.

Q25. Answer: (d) sensed

The correct answer is 'sensed'.

Key Points

• The given sentence is grammatically incorrect.
• Here, the second form of verb should be used because the given sentence is in the past tense.
• Because the given sentence is talking about a past time when they visited forest.
• Therefore, 'sensed' should be used here.

Correct Answer: After walking a few steps in the forest, our guide sensed some sort of movement in the foliage behind us.

Additional Information

• The usage of before, after and until:
• We use before and after to talk about the order of events in the past or future. With before and after, either the main clause or the subordinate clause can come first.
• Example:
• She will pick you up before she comes here.
• Here, in this sentence 'She will pick you up' is the first event. And 'She comes here' is the second event.
• After she comes here, she will pick you up.
• Here, in this sentence 'After she comes here' is the first event. And 'she will pick you up' is the second sentence.
• 'Until' as a time conjunction means up to a time in the past or future. In the case of 'until', the main clause usually comes first.
• Example: I'm going to wait until the January sales start to buy a new jacket.

Q26. Answer: (d) 20

The logic is:

9 : 72 → 9 × (9 – 1) = 72

Similarly,

5 : ? → 5 × (5 – 1) = 20

Hence, '20' is the correct answer.

Q27. Answer: (d) 6

Faces opposite to each other is shown below:

So, the face opposite to the face having number '1' is '6'.

Hence, '6' is the correct answer.

Q28. Answer: (c) 324

The logic is:

1^(st) Number × 3^(rd) Number = 2^(nd) Number

1) 600 → 6 × 0 = 0

2) 441 → 4 × 1 = 4

3) 324 → 3 × 4 = 12 ≠ 2

4) 393 → 3 × 3 = 9

Hence, '324' is the odd one out.

Confusion Points

• All numbers are divisible by 3, so divisibility rule does not follow.
• 441 and 324 both are perfect square of 21 and 18, so logic of a perfect square does not follow.

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Q29. Answer: (c) Teacher : Student

The logic is:

Coach : Player → A coach is a person who guides and coaches players.

Similarly,

Teacher : Student → A teacher is a person who teaches and guides a student.

Hence, 'Teacher : Student' is the correct answer.

Q30. Answer: (b) Grape

The logic is:

'Tree' is related to 'Mango' → Mangoes are a fruit of Mango tree.

Similarly,

'Vine' is related to '_____' → Grapes are fruit of a vine plant.

Hence, 'Grape' is the correct answer.

Q31. Answer: (b) (1, 2, 6)

The logic is:

(2, 6, 42) → 2 × (2 + 1) = 6; 6 × (6 + 1) = 42

Similarly,

2) (1, 2, 6) → 1 × (1 + 1) = 2; 2 × (2 + 1) = 6

Other option do not follow the similar pattern:

1) (4, 12, 86) → 4 × (4 + 1) = 20 ≠ 12; 12 × (12 + 1) = 156 ≠ 86

3) (9, 13, 43) → 9 × (9 + 1) = 90 ≠ 13; 13 × (13 + 1) = 182 ≠ 43

4) (4, 8, 39) → 4 × (4 + 1) = 20 ≠ 8; 8 × (8 + 1) = 56 ≠ 39

Hence, '(1, 2, 6)' is the correct answer.

Q32. Answer: (c) TTRR

The pattern followed here is:

First, the given word need to be arranged in alphabetical order (A - Z),

BLISS will be BILSS, then

Words	B	L	I	S	S
Alphabetical order	B	I	L	S	S

Similarly,

STOP will be OPST, then

Words	S	T	O	P
Alphabetical order	O	P	S	T

Hence, "TTRR" is the coded form.

Q33. Answer: (d) 120

Let the Aman has 'x' number of notes of each one, five, ten and twenty rupee bank notes.

According to question:

x + 5x + 10x + 20x = 1080

=> 36x = 1080

=> x = 1080 ÷ 36

=> x = 30

So, total bank notes that Aman has = 4 × 30

= 120

Hence, '120' is the correct answer.

Q34. Answer: (c) aacdebceacdeabc

Using options:

1)

aabccdee / aabccdee / aabcbcee / aacdcdee
Not following any pattern
2)
aabccdee / aabccdee / aabcabce / acdecdee
Not following any pattern
3)
aabccdee / aabccdee / aabccdee / aabccdee
Following pattern
4)
abbcceae / aacdcdee / aabcbcae / acdecdee
Not following any pattern
Hence, 'aacdebceacdeabc' is the correct answer.

Q35. Answer: (b) 17 and 6

1) 28 and 2
Given expression: 6 + 28 ÷ 4 – 2 × 17 = 12
After replacing the numbers, we get:
L.H.S = 6 + 2 ÷ 4 – 28 × 17
= 6 + 0.5 – 476
= 482 – 0.5
= 481.5 ≠ R.H.S
2) 17 and 6
Given expression: 6 + 28 ÷ 4 – 2 × 17 = 12
After replacing the numbers, we get:
L.H.S = 17 + 28 ÷ 4 – 2 × 6
= 17 + 7 – 12
= 24 – 12
= 12 = R.H.S
3) 17 and 4
Given expression: 6 + 28 ÷ 4 – 2 × 17 = 12
After replacing the numbers, we get:
L.H.S = 6 + 28 ÷ 17 – 2 × 4
= 6 + 1.64 – 8
= 7.64 – 8
= - 0.36 ≠ R.H.S
4) 6 and 4
Given expression: 6 + 28 ÷ 4 – 2 × 17 = 12
After replacing the numbers, we get:
L.H.S = 4 + 28 ÷ 6 – 2 × 17
= 4 + 4.66 – 34
= 8.66 – 34
= - 25.34 ≠ R.H.S
Hence, '17 and 6' is the correct answer.

Q36. Answer: (b) 20

According to the English Alphabet series and its positional value:
The pattern followed here is:
S + K+ I + L + L - 6
19 + 11 + 9 + 12 + 12 - 6 = 57;
AND,
L + O + V + E - 6
12 + 15 + 22 + 5 - 6 = 48

Similarly,
L + I + E - 6
12 + 9 + 5 - 6 = 20
Hence, LIE is coded as 20

Q37. Answer: (d) 12

Concept Used:
Triangles = n× (n + 1)/2×H
Where,
n= number of small triangles
H = number of 'end to end' horizontal lines
→ In, ΔABC:
n= number of small triangles = 4
H = number of 'end to end' horizontal lines = 1 (i.e. BC)
Triangles = 4× (4 + 1)/2×1 = 10
Hence, Total triangles in ΔABC = 10
→ Now, remaining Triangles: 2 (ΔABG and ΔACH)
→ Now Adding all the Δs:
Total Δs = 10 + 2 = 12
Hence, '12' is the correct answer.

Q38. Answer: (c) (4, 8, 32)

In the given set of numbers, pattern follows here is;
10 × 5 = 50;
50 × 5^2 = 1250;
Similarly,
4 × 2 = 8;
8 × 2^2 = 32
Hence, (4, 8, 32) follows the pattern.

Q39. Answer: (b) 12

Persons who have only motorcycle is shown below:
So, number of persons who have only motorcycle = 9 + 3
= 12
Hence, '12' is the correct answer.

Q40. Answer: (b) WYXZ

The pattern followed here is:
According to the alphabetical positions of the letters,
1) ABCD → A + 1 = B; B + 1 = C; C + 1 = D
2) WYXZ → W + 2 = Y; Y – 1 = X; X + 2 = Z
3) IJKL → I + 1 = J; J + 1 = K; K + 1 = L
4) LMNO → L + 1 = M; M + 1 = N; N + 1 = O
Hence, 'WYXZ' is the odd one out.

Q41. Answer: (a) [figure]

The option in which the given figure is embedded when rotation is not allowed is shown below:
Hence, 'option 1' is the correct answer.

Q42. Answer: (d) [figure]

There are two shaded part in the box.
The shaded part on top left corner is moving clockwise by skipping one space in each step.
Second shaded part is moving clockwise without skipping.
So, the next figure in the series will be option 4 as shown below:

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Hence, ‘option 4’ is the correct answer.

Q43. Answer: (a) 1, 4, 5, 2, 3

The logical and meaningful order of the following words is shown below:

1. Letter
4. Post Box
5. Post Office
2. Postman
3. Delivery

The letter is dropped in a post box. Then the letter is picked up from the post box and sent to the post office. After arriving at the post office, the letter is taken by the postman and delivered to its destination.

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

Q44. Answer: (b) 69

The logic is:

$5 \times 1 - 2 = 3$

$3 \times 2 - 3 = 3$

$3 \times 3 - 4 = 5$

$5 \times 4 - 5 = 15$

$15 \times 5 - 6 = 69$

Hence, ‘69’ is the correct answer.

Q45. Answer: (a) Niece

According to the given conditions,

So, A is the niece of O.

Hence, ‘niece’ is the correct answer.

Q46. Answer: (c) Only conclusion IV follows.

The least possible venn diagram is:

I. Some bananas are yellow. → False (It can be possible but it is not definite)

II. Some yellow are bananas. → False (It can be possible but it is not definite)

III. All yellow are bananas. → False (It can be possible but it is not definite)

IV. Some green are bananas. → True (It is definite)

Hence, only conclusion IV follows.

Q47. Answer: (a) KKNP

The pattern followed here is:

According to the alphabetical positions of the letters,

Similarly,

Hence, ‘KKNP’ is the correct answer.

Q48. Answer: (d) BUYZ

The pattern followed here is:

According to the alphabetical positions of the letters,

Similarly,

Hence, ‘BUYZ’ is the correct answer.

Q49. Answer: (a) [figure]

The paper look when unfolded will appear as shown below:

Hence, ‘option 1’ is the correct answer.

Q50. Answer: (b) [figure]

The option that is the correct mirror image of the given figure is shown below:

Hence, ‘option 2’ is the correct answer.

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Q51. Answer: (a) 2

Given:

Time taken by A to complete the work = 3 days

Time taken by B to complete the work = 6 days

Concept used:

Total work = LCM

Efficiency = Total work/Total time

Calculation:

Total work = LCM of 3 and 6 = 6

Efficiency of A = 6/3 = 2

Efficiency of B = 6/6 = 1

Efficiency of A + B = 2 + 1 = 3

Total days took if A and B works together = 6/3 = 2 days

Therefore Total days took if A and B works together is 2 days

Q52. Answer: (a) 1/61(64 + 21√5)

Given:

a : b = 3 : √5

Calculation:

Let a, b be 3k, k√5

=> 2a + b = 6k + k√5

=> 3a – 2b = 9k – 2k√5

(2a + b) : (3a – 2b)

=> (6k + k√5) : (9k – 2k√5)

=> (6 + √5)(9 + 2√5) : (9^2 – $(2\sqrt{5})^2$)

=> (64 + 21√5)/61

Therefore (2a + b) : (3a – 2b) is (64 + 21√5)/61

Q53. Answer: (a) (x^2 - x + 1) km/h

Given:

Distance travelled by train is x^3 + 1 km

Time taken is x + 1 hours

Formula Used:

Speed = Distance/Time

$x^3 + y^3 = (x + y)(x^2 – xy + y^2)$

Calculation:

Speed of train = $(x^3 + 1)/(x + 1)$

=> $(x + 1)(x^2 – x + 1)/(x + 1)$

=> (x^2– x + 1)

Therefore Speed of Train is (x^2 – x + 1) km/h

Q54. Answer: (c) Rs. 2,529.41

Given:

Selling price of the book = Rs. 2150

Discount % = 15%

Concept used:

M.P = S.P × 100/(100 – D%)

Where,

M.P → Marked price

S.P → Selling price

D% → Discount%

Calculations:

Selling price of the book = Rs. 2150

M.P = 2150 × (100/85)
=> Rs. 2529.41
Therefore Marked price of the book is Rs. 2529.41
Shortcut Trick
Selling price = MP(1 – discount rate)
=> 2150 = MP(1 - 15/100)
=> 2150 = MP × 85/100
=> M = 2150 × 100/85
=> M = Rs. 2529.41
Therefore Marked price of the book is Rs. 2529.41.

Q55. Answer: (b) 1 : 2

Calculations:
The enrolment during 1995-1996 = 150
The enrolment during 1998-1999 = 300
Ratio = The enrolment during 1995-1996 : The enrolment during 1998-1999
=> 150 : 300
=> 1 : 2
Therefore The required ratio is 1 : 2.

Q56. Answer: (d) 19/20

Calculation:
The number of students who were admitted to course A in the year 2007 = 3800
The number of students who were admitted to course C in the year 2009 = 4000
The number of students admitted to course A in 2007 : The number of students admitted to course C in 2009
=> 3800 : 4000
=> 19 : 20
Therefore The required ratio is 19/20.

Q57. Answer: (d) 5√5 cm

Given:
The radius of the circle = 15 cm
The length of one chord of the circle = 20 cm
Formula Used:
$(OC)^2 = (OA)^2 – (CA)^2$
Where OC → Distance of the chord from the centre of the circle
OA → Radius of the circle
CA → (1/2) × length of the chord
Calculation:
In the given figure,
AB = 20 cm
CA = (1/2) × AB
=> (1/2) × 20
=> 10 cm
OA = radius = 15 cm
$(OC)^2 = (OA)^2 – (CA)^2$
=> $(OC)^2 = 15^2 – 10^2$
=> $(OC)^2 = 225 – 100$
=> OC = √125
=> OC = 5√5 cm
Therefore The distance of the chord from the centre of the circle is 5√5 cm.

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Q58. Answer: (a) 11.9

Calculation:

The number of students (in hundreds) in M.Sc. course in institute A = 2.4

The number of students (in hundreds) in M.Sc. course in institute B = 2.9

The number of students (in hundreds) in M.Sc. course in institute C = 5.2

The number of students (in hundreds) in M.Sc. course in institute D = 1.4

Total number of students (in hundreds) in M.Sc. course across all institutes = 2.4 + 2.9 + 5.2 + 1.4 = 11.9

Therefore The total number of students (in hundreds) in M.Sc. course across all institutes is 11.9.

Q59. Answer: (c) 5π cm2

Given:

The radius of the circle = √5 cm

Formula Used:

The area of the circle = π × r²

Where r → radius of the circle

Calculation:

The area of the circle = π × r²

=> π × (√5)²

=> 5π

Therefore The area of the circle will be 5π cm2.

Q60. Answer: (a) n + 105

Given:

A positive integer ‘n’ is divisible by 3, 5, and 7.

Concept:

The LCM of two or more numbers is the least number which is exactly divisible by each of them.

Calculation:

The LCM of (3, 5, and 7) = 105

So next larger integer = n + 105

Therefore The next larger integer divisible by 3, 5, and 7 is n + 105.

Q61. Answer: (d) 272/1495

Given:

If the numerator of a fraction is increased by 15% and the denominator is decreased by 20%, then the fraction becomes 17/65.

Calculation:

Let the numerator of the fraction be N, and the denominator of the fraction be D.

New numerator = N + (15/100) × N

=> (100N + 15N)/100

=> 115N/100

New denominator = D – (20/100) × D

=> (100D – 20D)/100

=> 80D/100

New fraction = 115N/80D

=> (17/65) = (23N/16D)

=> 17 × 16D = 23N × 65

=> 272D = 1495N

=> N/D = 272/1495

Therefore The original fraction is 272/1495.

Shortcut TrickCalculation:

Let the fraction = P/Q

According to the question:

=> P~ ×~ 115 %over Q ~×~ 80% = 17over65

=> P~ ×~23over Q ~×~ 16 = 17over65

=> P/Q = (16× 17)/(65 × 23)

=> P/Q = 272/1495

Therefore The correct answer is 272/1495.

Q62. Answer: (a) 146/9

Given:

x + y = 4

$x^3 + y^3 = 12$

Formula Used:

$x^2 + y^2 = (x + y)^2 – 2xy$

$x^3 + y^3 = (x + y) (x^2 – xy + y^2)$

x^4 + x^4 = $(x^2 + y^2)^2 – 2x^2y^2$

Calculation:

$x^3 + y^3 = (x + y) (x^2 – xy + y^2)$

=> $12 = 4 × (x^2 – xy + y^2)$

=> $x^2 + y^2 = 3 + xy$

=> $(x + y)^2 – 2xy = 3 + xy$

=> $4^2 – 3 = 3xy$

=> xy = (16 – 3)/3

=> xy = 13/3

x^4 + y^4 = $(x^2 + y^2)^2 – 2x^2y^2$

=> $(3 + xy)^2 – 2 × (13/3)^2$

=> $[3 + (13/3)]^2 – 2 × (169/9)$

=> $[(9 + 13)/9]^2 – 338/9$

=> (484/9) – 338/9

=> (484 – 338)/9

=> 146/9

Therefore The value of x^4 + y^4 is 146/9.

Q63. Answer: (b) 8(1/3) %

Given:

Amount becomes double in 12 years

Formula Used:

Simple Interest = (P × r × t)/100

Amount = P + Simple Interest

Where P → Principal

r → Rate of interest

t → Time

Calculation:

Let principal be 100

Amount = P + Simple Interest

=> 2 × 100 = 100 + Simple Interest

=> Simple Interest = 100

Simple Interest = (P × r × t)/100

=> 100 = (100 × r × 12)/100

=> r = 100/12

=> r = 25/3

=> r = 81/3 %

Therefore The rate of interest is 81/3 %.

Q64. Answer: (c) 13√269

Given:

x – y = 13

xy = 25

Formula Used:

$(x – y)^2 = x^2 + y^2 – 2xy$

$(x + y)^2 = x^2 + y^2 + 2xy$

$x^2 – y^2 = (x – y) × (x + y)$

Calculation:

x – y = 13

Squaring both the sides

$=> (x – y)^2 = 13^2$

$=> x^2 + y^2 – 2xy = 169$

$=> x^2 + y^2 = 169 + 2 × 25$

$=> x^2 + y^2 = 219$

$(x + y)^2 = x^2 + y^2 + 2xy$

$=> (x + y)^2 = 219 + 2 × 25$

$=> (x + y) = √(269)$

$x^2 – y^2 = (x – y) (x + y)$

$=> x^2 – y^2 = 13√269$

Therefore The value of $x^2 – y^2$ is $13√269$.

Q65. Answer: (a) 30

Calculation:

33 × C.P = x × S.P

=> C.P/S.P = x/33

So, C.P = x

S.P = 33

According to the question,

=> x × 110/100 = 33

=> x × 11 = 330

=> x = 30 rupees

Therefore The value of x is 30.

Q66. Answer: (d) $12√3$ cm²

Given:

The side of an equilateral triangle is $4√3$ cm.

Formula used:

The area of an equilateral triangle = $(√ 3)/4 × (side)^2$

Calculation:

Area = $(√ 3)/4 × (4√3)^2$

$=> (√3/4) × 16 × 3$

$=> √3 × 12 = 12√3$ cm²

Therefore The area of an equilateral triangle is $12√3$ cm².

Q67. Answer: (a) 1

Given:

cot 35°cot 40°cot 45°cot 50°cot 55°

Concept used:

cot 45° = 1

tan θ × cot θ = 1

tan A = cot B, if A + B = 90°

Calculation:

cot 35°cot 40°cot 45°cot 50°cot 55°

=> cot 35° cot 40° cot 45°tan 40°tan 35°

=> cot 35°tan 35°cot 40°tan 40°cot 45°

=> cot 45°= 1

Therefore The correct answer is 1.

Q68. Answer: (d) π/6

Given:

2sin2 x = 2 - 3sin x

Concept used:

π = 180°

sin 30°= 1/2

Calculation:

$2\sin^2 x + 3\sin x - 2 = 0$

$\Rightarrow 2\sin^2 x + 4\sin x - \sin x - 2 = 0$

$\Rightarrow 2\sin x(\sin x + 2) - 1(\sin x + 2) = 0$

$\Rightarrow (2\sin x - 1)(\sin x + 2) = 0$

$\Rightarrow 2\sin x - 1 = 0$ or $\sin x + 2 = 0$

$\Rightarrow \sin x = 1/2$ or -2

(Because $\sin\theta \neq$ negative)

So, $\sin x = 1/2$

$\Rightarrow \sin 30° = 1/2$

$\Rightarrow x = 30° = \pi/6$

Therefore The value of x is π/6.

Q69. Answer: (d) 216/65

Given:

PQ = 13 cm and PR = 12 cm

Concept used:

$(\text{Perpendicular})^2 + (\text{Base})^2 = (\text{Hypotaneous})^2$

$\sin\theta = p/h$ and $\tan\theta = p/b$

Calculation:

$QR^2 = 13^2 - 12^2 = 25$

$\Rightarrow QR = 5$ cm

now,

$\sin\theta + \tan\theta = (p/h) + (p/b)$

$\Rightarrow (12/13) + (12/5) = (60 + 156)/65$

$\Rightarrow 216/65$

Therefore The value of $\sin\theta + \tan\theta$ is 216/65.

Q70. Answer: (a) 30 km

Given:

A person walks a distance from point A to B at 15 km/h, and from point B to A at 30 km/h.

He takes 3 hours to complete the journey,

Concept used:

Distance = velocity × time

Velocity = distance/time

Time = distance/velocity

Calculation:

Let the distance between A to B be x km

According to the question,

$x/15 + x/30 = 3$

$\Rightarrow 3x/30 = 3$

$\Rightarrow x = 30$ km

Therefore The distance between A to B is 30 km.

Shortcut TrickCalculation:

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Distance = {(S1 × S2)/(S1 + S2)} × total time
Distance = {(15 × 30)/(15 + 30)} × 3
Distance = 30 km.
Therefore The correct answer is 30 km.

Q71. Answer: (b) 100°

Given:
The ratio of three angles of a triangle is 1 : 3 : 5.
Concept used:
In triangle,
Sum of all angles = 180°
Explanation:
Let be the proportional value = x
x + 3x + 5x = 180°
=> 9x = 180°
=> x = 20°
The greatest angle = 5x
=> 5 × 20°= 100°
Therefore The measure of the greatest angle is 100°.

Q72. Answer: (a) 2.5

Concept used:
Average = (total sum)/(total number)
Calculation:
In 2007,
Sum of total students = 2.5 + 1.5 + 5 + 1 = 10
Total number of courses = 4
Average = 10/4 = 2.5
Therefore The average number of students is 2.5.

Q73. Answer: (b) 10

Concept used:
Calculation:
(9 + 3 – 16 ÷ 4 + 10) + {(3 + 5 × 2 ÷ 10)} × (18 – 4 of 5)
=> (9 + 3 – 4 + 10) + {(3 + 5 × 1/5)} × (18 – 20)
=> 18 + 4 × (18 – 20)
=> 18 + 4 × (-2)
=> 18 – 8 = 10
Therefore The value is 10.

Q74. Answer: (c) 10 cm

Given:
Two concentric circles are of radii 13 cm and 12 cm.
Concept used:
$(\text{Perpendicular})^2 + (\text{Base})^2 = (\text{Height})^2$
In this figure AB = chord OM perpendicular to AB then AM = MB
Explanation:
According to the question,
OA = 13 cm and OM = 12 cm then,
$AM^2 = 13^2 - 12^2 = 25$ cm
=> AM = 5 cm
(Because AM = MB)
AB = 5 + 5 = 10 cm

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Therefore The length of the chord is 10 cm.

Q75. Answer: (b) 31/3

Given:

The set of three numbers, the average of the first two numbers is 7, the average of the last two numbers is 10, and the average of the first and last numbers is 14.

Concept:

Average = (Sum of all observation/Number of observation)

Calculation:

Let the set of three number is respectively a, b, and c.

According to the question

The sum of first number is

=> a + b = 2 × 7

=> a + b = 14 ----(1)

The sum of the last two number is

=> b + c = 2 × 10

=> b + c = 20 ----(2)

The sum of the first and last number is

=> c + a = 2 × 14

=> c + a = 28 ----(3)

Add eq. (1), (2) and (3)

=> 2(a + b + c) = 14 + 20 + 28

=> (14 + 20 + 28)/2

=> 62/2

=> 31

So,

The average of the three number is

=> 31/3

Therefore The required average is 31/3.

Short approach:

The average of the three numbers is

=> (7 + 10 + 14)/3

=> 31/3

Therefore The required average is 31/3.

Q76. Answer: (d) It can amend a money bill.

The correct answer is It can amend a money bill.

• The Rajya Sabha is the upper house of the bicameral Parliament of India.

• Rajya Sabha is also known as the house of elders.

• Rajya Sabha is constituted under Article 80 of the Indian constitution.

• Rajya Sabha is a permanent body and not subject to dissolution.

• It has powers that protect the rights of states against the union.

• Among its 245 members, 233 are elected by the legislatures of the states and union territories using single transferable votes through Open Ballot while the remaining 12 members are appointed by the President for their contributions to art, literature, science, and social services.

• One-third of the members of the Rajya Sabha retire every two years.

• Rajya Sabha represents the federal character of the constitution.

• The Vice President of India is the ex-officio Chairman of the Rajya Sabha.

• Current Chairman of the Rajya Sabha: Jagdeep Dhankar.

• Current Deputy Chairman (Dec-2020): Harivansh Narayan Singh.

Confusion Points

• The maximum strength of the Rajyasabha is fixed at 250. So if the question asked 'Maximum Strength', the answer would be 250.

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• Rajya Sabha currently has a maximum membership of 245.

Additional Information

Types of Bill- There are four types of bills in our Constitution:

• Ordinary bill- Ordinary bill is a bill that can be introduced in either of the houses by any minister or member of the house.

• Money bill- Money Bill refers to a bill (draft law) introduced in the Lower Chamber of Indian Parliament(Lok Sabha) which generally covers the issue of receipt and spending of money, such as tax laws, laws governing borrowing, and expenditure of the Government.

• Finance bill- Finance Bill is a secret bill introduced every year in Lok Sabha(Lower chamber of the Parliament) immediately after the presentation of the Union Budget, to give effect to the financial proposals of the Government of India.

• Constitutional amendment bills- Bills seeking to amend all other provisions of the Constitution including those enumerated in the provision to article 368(2), are called by the title 'Constitution Amendment Bills'. These Bills can be introduced in the House of Parliament.

Q77. Answer: (a) Arctic Ridge

The correct answer is Arctic Ridge.

• Arctic Ridge has the slowest rate of movement at less than 2.5 cm/year.

• The Lomonosov Ridge is a part of the Arctic Ocean's continental crust.

• The ridge is nearly 1800 km long and lays between the New Siberian Islands and the Canadian Arctic Archipelago.

• The width, however, varies from 60 meters to 200 meters.

Additional Information

• The Major plates of the earth are called primary plates:

• African Plate

• Antarctic Plate

• Indo-Australian Plate, sometimes subdivided into:

• Indian Plate

• Australian Plate

• Eurasian Plate

• <liNorth American Plate

• <liSouth American Plate, and

• Pacific Plate.

Q78. Answer: (d) Pala

The correct answer is Pala.

• Uraiyur is an area of Tiruchirapalli in Tamil Nadu, India.

• It was the capital of the early Cholas.

• Cheras were an ancient Dravidian dynasty of Tamil origin.

• The location of the Chera capital is generally assumed to be at modern Karur.

• The capital of Pallavas was Kanchipuram.

• Kanchipuram, also known as Kanchi, is an ancient city in southern India’s Tamil Nadu state.

• The Pala Dynasty originated in the region of Bengal.

• Hence it is not a South Indian dynasty.

Q79. Answer: (d) Mizoram

The correct answer is Mizoram.

• The tropic of cancer passes through 8 Indian states.

• The 8 Indian states through which, tropic of cancer passes are:

1. Gujarat
2. Rajasthan
3. Madhya Pradesh
4. Chhatisgarh
5. Jharkhand
6. West Bengal
7. Tripura
8. Mizoram

Additional Information

• The latitude of approximately 23°27′ N of the terrestrial equator is called tropic of cancer.

• There are 17 countries(Including Taiwan) through which the tropic of cancer passes.

• The tropic of cancer is the only latitude that passes through India.

• Mahi River is the only river in India that passes the tropic of cancer twice.

• The city nearest to the tropic of cancer in India is Udaipur city in Tripura.

Q80. Answer: (d) file server

The correct answer is a file server.

Key Points

• A file server is used to manage files on a server where it can be uploaded, shared or downloaded by other available systems which are connected to that network.

• It is a central server on a computer network that enables connected clients to access the server's storage capacities.

• File servers offer users a central storage place for files on internal data media, which is available to all approved clients.

• The server administrator defines strict guidelines regarding which client have access rights -

• For example, the design or file authorizations of the particular file system empower the administrator to set which files can be seen and opened by a specific client or client group and whether information must be seen or added altered, or erased.

• With file servers connected with the web and designed appropriately, clients can't just access the files through the neighborhood organization but also benefit from remote access.

• This enables files to be accessed and saved on the file server even when users are on the go.

• All modern operating systems such as Windows, Linux, or macOS can be used on a file server, although the devices available in the network need to be compatible with the operating system.

Q81. Answer: (d) Integrated circuits

The correct answer is Integrated circuits.

Key Points

Third Generation (1964-1977):

• This generation was introduced by the development of a small chip consisting of the capacity of the 300 transistors

• These Integrated Circuits (IC)s are popularly known as Chips.

• So it is quite obvious that the size of the computer got further reduced

• Some of the computers developed during this period were IBM-360, ICL-1900, IBM-370, and VAX-750

• Higher-level language such as BASIC (Beginners All-purpose Symbolic Instruction Code) was developed during this period

Additional Information

Generation	Duration	Electronic Component Used
First Generation Computers	1946 - 1954	Vacuum Tubes
Second Generation Computer	1955 - 1964	Transistors
Third Generation Computer	1964 - 1977	Integrated Circuits
Fourth Generation Computer	1978 - Present	VLSI or Microprocessors
Fifth Generation Computer	Present and Future	ULSI or Bio-Chips

Q82. Answer: (a) Viswanathan Anand

The correct answer is Viswanathan Anand.

• Viswanathan Anand was dropped from the All India Council of Sports (AICS) in January 2020 for not being "active" enough.

• He was the first sportsperson to receive the award in Indian history.

• Viswanathan Anand is the only person in Chess history to have won a World Championship title in all formats, match, knock, and tournament.

• In April 2006, V.Anand became the fourth player in chess history to pass the 2800 Elo mark on the FIDE rating list, after Garry Kasparov, Vladimir Kramnik, and Veselin Topalov.

• Viswanathan Anand is the first Asian to win the World Championship in 2000.

• Viswanathan Anand received Arjuna Award for Outstanding Indian Sportsman in Chess in 1985.

• He received Padma Shri which is the Fourth highest civilian award awarded by the Government of India in 1987.
• He is the first recipient of the Rajiv Gandhi Khel Ratna in 1991–1992.
• He was awarded the Padma Bhushan award by the Government of India in 2000.

Additional Information

• Pullela Gopichand is a former professional Badminton player.
• He is presently the Chief National Coach for the Indian Badminton team.
• Harbhajan Singh and Krishnamachari Srikkanth belong to Indian cricket.

Q83. Answer: (d) Peninsula

The correct answer is the Peninsula.

• A Peninsula is an area of land that is surrounded by water from three sides.
• South India is a Peninsula shape of an inverted triangle bounded by the Arabian Sea on the west and the Bay of Bengal on the east along with the Indian Ocean in the south.
• Gujarat, Maharashtra, Goa, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, Telangana, Odisha, and West Bengal are the Indian states which lie in the peninsular region.

Additional Information

• A strait is a narrow channel of water that joins two water bodies and separates two landmasses.
• Isthmus is a narrow piece of land act as a separator between the two water bodies.

Q84. Answer: (d) Kolkali

The correct answer is Kolkali.

• Kolkali folk dance is related to the union territory Lakshadweep.
• It is a folk art performed in south India's Kerala State region of North Malabar.
• There are two Kolkali styles-the actual Kolkali and Thekkan Koladi.

Key Points

Some important folk dances:

States	Folk Dances
Himachal Pradesh	• Nati - Charba - Dangi - Chharhi
Madhya Pradesh	• Jawara - Matki - Grida Dance - Tertali - Akiri
Jharkhand	• Alkap - Jhumar - Karma Munda - Santhal
Uttarakhand	• Barada Nati - Chhapeli - Chholiya - Chancheri
Meghalaya	• Nongkrem Dance - Doregata Dance - Do Dru-su'a
Rajasthan	• Ghoomar - Kathputli - Kalbelia - Terah Taali

Q85. Answer: (b) 22

The correct answer is 22.

• 8th schedule - Originally, 14 languages were in the 8th schedule of the Constitution.
• The Bodo, Dogri, Maithili, and Santali were added in the year 2003 (92nd Constitutional Amendment Act).
• Awadhi language is usually spoken in the Awadh region of present-day Uttar Pradesh.
• At present total of 22 official languages in the 8th schedule.

Additional Information

• The trick to remember: Tears of Old PM
• 1st Schedule: T – Territory
• 2nd Schedule: E – Emoluments
• 3rd Schedule: A – Affirmations/Oaths
• 4th Schedule: R – Rajya Sabha
• 5th Schedule: S – Scheduled Areas
• 6th Schedule: O – Other Scheduled Areas
• 7th Schedule: F – Federal Structure
• 8th Schedule: O – Official Languages

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• 9th Schedule: L – Land Reforms
• 10th Schedule: D – Defection
• 11th Schedule: P – Panchayats
• 12th Schedule: M – Municipality

Q86. Answer: (a) MANI

The correct answer is MANI.

• RBI has launched a mobile app, MANI, Mobile Aided Note Identifier, to help visually challenged people to identify the denomination of currency notes.

• The app, which is available both on Android and iOS operating systems, was launched by RBI Governor Shaktikanta Das in Mumbai on 1 Jan 2020.

Additional Information

• "NEFT" stands for National Electronic Funds Transfer.
• It is an online payment system that can be used by individuals and organizations to transfer funds.
• DRI stands for Directorate of Revenue Intelligence.
• OLTAS stands for Online Tax Accounting System for Direct Taxes.

Q87. Answer: (a) Continuous use

The correct answer is Continuous use.

• A production possibilities curve (PPC) shows the maximum amount of one good that can be produced given a production level for some other good, and given the total amounts of inputs available for the production of both goods, and given the technology of production.

• The PPC can be used to illustrate the concepts of scarcity, opportunity cost, Economic efficiency, inefficiency, economic growth and development, and contractions.

Additional Information

• The Production Possibilities Curve (PPC) is a model that captures scarcity and the opportunity costs of choices when faced with the possibility of producing two goods or services.

• The production possibility curve represents graphically alternative production possibilities open to an economy.

• The productive resources of the community can be used for the production of various alternative goods.

• In other words, the production possibility curve can be defined as a graph that represents different combinations of quantities of two goods that can be produced by an economy under the condition of limited available resources. It is also known as the production possibility frontier(PPFs) or transformation curve.

• The PPCs are normally drawn as bulging upwards or outwards from the origin ("concave" when viewed from the origin), but they can be represented as bulging downward (inwards) or linear (straight), depending on a number of assumptions.

• In this diagram AF is the production possibility curve, also called or the production possibility frontier, which shows the various combinations of the two goods (Wheat & Cloth) which the economy can produce with a given amount of resources.

• The Curve shows all of the possible combinations of 2 goods or services that can be produced within a specified time with all its resources fully and efficiently employed.

• The economy can produce at any combination on or inside the curve (C and H).

• Point outside the curve is not attainable (F).

Q88. Answer: (b) decrease in white blood cells

The correct answer is the decrease in white blood cells.

Key Points

• Less than normal presence of WBC is called leukopenia.
• Less than normal presence of RBC is called anaemia.
• More than normal presence of WBC is called leukocytosis.

Q89. Answer: (b) Photosynthesis

The correct answer is Photosynthesis.

• Autotrophic organisms are those that prepare their own food.
• The chloroplast helps in preparing food.
• They obtain energy from inorganic sources by converting light energy into chemical energy.
• Carbon and energy requirements of autotrophic organisms are fulfilled by photosynthesis.

Additional Information

• Organisms that generate energy using light are Photoautotrophs.

• Essentially, photoautotrophs make their own food, which is how they can live and reproduce.

• Hibernation refers to a season of heterothermy that is characterized by low body temperature, slow breathing and heart rate, and low metabolic rate.

Q90. Answer: (c) Feroz Shah Kotla Ground

The correct answer is Feroz Shah Kotla Ground.

• Feroz Shah Kotla Stadium in Delhi was renamed Arun Jaitley Stadium in memory of its former president who passed away recently.

• The renaming took place on 12 September 2019 at a function where a stand at the Stadium was also named after Indian captain Virat Kohli.

• Though the Stadium was named Arun Jaitley Stadium, the name of the ground will remain as Feroz shah Kotla Ground.

Additional Information

• Eden Gardens is located in Kolkata and was established in 1864.

• Wankhede stadium is a cricket stadium in Mumbai having a capacity of 33,108.

• Green Park Stadium is located in Kanpur, Uttar Pradesh.

Q91. Answer: (a) Chitkara University

The correct answer is Chitkara University.

Key Points

• India got its first 3D Smart Traffic Signal System in August 2019. This system was designed by students of Chitkara University.

• Intelight is the name of the 3-D Smart Traffic Signal devised by the students.

• The system has been installed at the traffic crossing near Quark City on Airport Road, on a pilot project basis.

• It will help in regulating traffic signals with a smart bird's eye view wireless sensor system.

• The 3-D Smart Traffic Signal System was launched by Sharad Satya Chauhan, ADGP - Traffic.

Q92. Answer: (c) Chandrani Murmu

The correct answer is Chandrani Murmu.

Key Points

• A 25 year, 11-month-old engineering graduate from Odisha Chandrani Murmu, has become the youngest Member of Parliament to the 17th Lok Sabha.

• Odisha has a total of seven women MPs, making it the first state ever to have 33 percent or the largest share of women MPs of its total of 21 seats.

• Chandrani Murmu, who has replaced Dushyant Chautala, was elected as Biju Janata Dal (BJD) candidate from the Keonjhar seat, as the youngest parliamentarian in the country.

• Indian National Lok Dal's Dushyant Chautala was the youngest MP in the 16th Lok Sabha.

• He was elected at the age of 26 from the Hisar Lok Sabha seat in 2014.

Q93. Answer: (a) 111

The correct answer is 111.

• Each latitude on earth is equal to almost 111 kilometers.

• This distance decreases marginally as one travels to poles and increases marginally as one goes towards the equator.

Additional Information

• Latitude

• Imaginary lines running east-west.

• Longitude

• The vertical lines running north-south, join the two poles.

• The earth is totally taken to be at 360°. Therefore it has 360 meridians. 1 meridian = 1°.

• 1° longitude = 4 Minutes.

• 180° longitude = 180 × 4 = 720 minutes = 12 hrs

• The Prime Meridian (0°) runs through the Greenwich Observatory in England, the location agreed upon by a conference in 1884.

• On the opposite side of the Earth is the international dateline at approximately 180° longitude.

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Q94. Answer: (d) General Bipin Rawat

The correct answer is General Bipin Rawat.

Key Points

• General Bipin Rawat was appointed as India's first tri-service chief on 31st December 2019.
• General Bipin Rawat took charge of the office of tri-service chief from 1st January 2020.
• He was the 27th Chief Of Army Staff (COAS) before becoming the Chief of Defence Staff of India.
• Appointed as the Chief Of Army Staff on 17th December 2016 and retired from the post on 31st December 2019.
• The Chief of Defence Staff is the head of the three services of the Indian Armed Forces:
• Indian Army
• Indian Navy
• Indian Air Force
• He was commissioned on the 5th battalion of the 11 Gorkha Rifles on 16th December 1978.
• Served the nation from 16th December 1978 till 8th December 2021.
• Gen Bipin Rawat passed away in a helicopter crash near Coonoor in Tamil Nadu on 8th December.

Additional Information

Person	Post(Apr 2022)
Gen Manoj Pande	Chief of the Army Staff
R Hari Kumar	Chief of the Naval Staff
Vivek Ram Chaudhari	Chief of the Air Staff

Q95. Answer: (b) Xerophyte

The correct answer is Xerophyte.

• Xerophytes are plants that are able to survive in very dry places.
• They are generally found in areas like deserts.
• When water is abundant, their rate of transpiration is the same as other plants.
• In a prolonged drought, they have several survival mechanisms that make them successful.
• Popular examples of xerophytes are cacti, pineapple.

Additional Information

• Mesophytes are terrestrial plants that need a moderate amount of water. For example GoldenRod, Clover, etc.
• Hydrophytes are the plants that live completely or partially submerged in freshwater.
• They have developed mechanisms for the removal of extra water from their cells.
• Hydrophytes have broad leaves with a large number of stomata on their upper surfaces.

Q96. Answer: (c) Vamana

The correct answer is Vamana.

Key Points

• The fifth incarnation of Vishnu is known as Vamana.
• According to Hindu Mythology, there are ten complete incarnations of the Lord Vishnu and, countless numbers of incomplete incarnations.

Position	Incarnations	Yugas
First	MATAYSYA	SATYUGA
Second	KURMA	SATYUGA
Third	VARAHA	SATYUGA
Fourth	NARSIMHA	SATYUGA
Fifth	VAMANA	TRETA
Sixth	PARSHURAMA	TRETA
Seventh	RAMA	TRETA
Eighth	KRISHNA	DWAPARA

Ninth	BUDDHA	KALIYUGA
Tenth	KALKI	KALIYUGA

Q97. Answer: (c) Dhyan Chand

The correct answer is Dhyan Chand.

• National Sports Day is celebrated on August 29 every year to honor the hockey legend, Major Dhyan Chand.

• The Government of India has decided to celebrate his birthday as the National Sports Day since 2012.

• Major Dhyan Chand had won three Olympic gold medals.

• At the Berlin Olympic Games in 1936, Dhyan Chand was appointed as the captain of the Indian Hockey team.

Additional Information

• Kapil Dev is nicknamed as Haryana Hurricane.

• Kapil Dev was the captain when India lifted the ICC one day international world cup the first time in 1983.

• The initial 400 meters national record was set by the Flying Sikh (Milkha Singh) at the Rome Olympics in the year 1960.

Q98. Answer: (d) Neolithic

The correct answer is Neolithic.

'Piklihal' and 'Utnur' are important neolithic sites.

• Some of the important Neolithic sites:

| Site | Location | | --- | --- | | Mehrgarh | Baluchistan, Pakistan | | Chirand | Bihar | | Utnur | Telangana | | Piklihal | Raichur district in Karnataka | | Jarf el Ahmar | Syria | | Tell Abu Hureyra | Syria |	**Site**	**Location**	**Mehrgarh**	**Baluchistan, Pakistan**	**Chirand**	**Bihar**	**Utnur**	**Telangana**	**Piklihal**	**Raichur district in Karnataka**	**Jarf el Ahmar**	**Syria**	**Tell Abu Hureyra**	**Syria**
Site	Location													
Mehrgarh	Baluchistan, Pakistan													
Chirand	Bihar													

Utnur	Telangana												
Piklihal	Raichur district in Karnataka												
Jarf el Ahmar	Syria												
Tell Abu Hureyra	Syria												

Additional Information

• Paleolithic:

• It is the earliest Stone age period dating 2.6 million years ago.

• The age is distinguished by the most primitive stone tools. Humans during the era grouped together in small “bands” and were involved in gathering plants, fishing, and hunting.

• The palaeolithic period is the longest in human history.

• The age can be divided into lower Paleolithic, Middle Paleolithic, and Upper Paleolithic.

• During the end of the age, people developed spiritual and religious beliefs as depicted in some of the excavations.

• Mesolithic: It is the second period of the stone age between the Paleolithic and Neolithic. The start and end of the age vary by geographical region. It is a transition period from hunting and gathering as in the Paleolithic to domestication as in the Neolithic. The tools used were the mode V chipped stone tools (microliths).

• Neolithic: It is the 3rd period of the stone age and is often referred to as the “New stone age”. Its time period is considered to be around 10,200 BC to 4,500BC, which ended with the beginning of the “Bronze Age”.

• Megalithic: Megaliths are derived from the Latin mega (large) and lith (stone). Megaliths were constructed either as burial sites or commemorative (non-sepulchral) memorials.

Q99. Answer: (c) Madhuri Vijay

The correct answer is Madhuri Vijay.

• U.S.-based-Indian author Madhuri Vijay’s debut novel, “The Far Field” bagged this year’s JCB prize for Literature, the most expensive Indian award for writing.

• She also received Rs 25 lakh as the prize money and a sculpture.

• JCB prize is an annual Indian literary award instituted in 2018.

Additional Information

• Malayalam author S Hareesh has won the coveted JCB Prize for Literature 2020 for his novel, Moustache.

Q100. Answer: (a) Subramanian Swamy

The correct answer is Subramanian Swamy.

• Subramanian Swamy is an Indian politician, economist, and statistician who is nominated as a Member of Parliament in Rajya Sabha, the upper house of the Indian Parliament.

• He was a member of the Indian Planning Commission and a cabinet minister in the government of Chandra Shekhar.

• Subramanian Swamy tracks the country's economic development over the years and offers solutions for future growth.

• The book is titled 'Reset: Regaining India's Economic Legacy'.

• Swamy is an outspoken figure who has often criticized the economic policies of the Modi government.

Additional Information

• In 2019 the Nobel prize in Economics was given to Abhijit Banerjee, Esther Duflo, and Michael Kremer for their experimental approach to reduce poverty.

• Suketu Mehta is the author of the Book 'This Land is our Land'.

• Raghuram Rajan, an Indian economist and 23rd Governor of the RBI is the author of the book 'I Do What I Do'.

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