SSC CHSL 2020 Official Paper 35 (Held on: 12 Aug 2021 Shift 2) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. Select the most appropriate meaning of the given idiom.

Method to one's madness

(a) Being very neat and particular about details
(b) Always behaving like a mad person
(c) Not following rules and conventions
(d) Seeming disorderly yet having a structure

Q2. Select the most appropriate synonym of the given word.

WREAK

(a) fail
(b) neglect
(c) cause
(d) forget

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

Despite warnings, the driver continued to speed and have been caught by the traffic police.

(a) and have been caught
(b) Despite warnings
(c) the driver continued to speed
(d) by the traffic police

Q4. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

I would have told you if I receive the medicines.

(a) No substitution
(b) would receive
(c) am receiving
(d) had received

Q5. Examine the four jumbled sentences. Out of the given options, pick the one that gives their correct order.

A. Wasserkopf returns to his school and asks for a refund of his tuition fee.

B. 'Refund' by Karinthy is a hilarious play about a student named Wasserkopf.

C. However, the situation changes when the Mathematics teacher asks him to calculate the total amount.

D. He further declares that he had learnt nothing at school in all the years.

(a) CBAD
(b) BADC
(c) BCAD
(d) ADCB

Q6. Select the INCORRECTLY spelt word.

(a) straightest
(b) angryest
(c) healthiest
(d) disinterest

Q7. In the given sentence, identify the segment which contains the grammatical error.

All the ladies of the colony assemble in temple and prays together on Sunday evenings.

(a) on Sunday evenings
(b) and prays together
(c) assemble in the temple
(d) All the ladies of the colony

Q8. Select the option which means the same as the group of words given.

One who eats human flesh

(a) tribal
(b) humane
(c) cannibal
(d) ethnic

Q9. Select the correct passive form of the given sentence.

How many languages do you learn at school?

(a) How many languages will you learn at school?
(b) Languages are learnt by how many at school?
(c) How many languages are learnt by you at school?
(d) How many languages have you being learnt by you learning at school?

Q10. Given below are four jumbled sentences. Out of the given options, pick the one that gives their correct order.

A. One day the tailor and his wife discovered that their son was not in the house.
B. The father went to the roadside and shouted, “John!”
C. No one answered.
D. They looked in the garden, and did not find him there.

(a) BDAC
(b) ABDC
(c) ADBC
(d) BACD

Q11. Select the most appropriate ANTONYM of the given word.

SURREPTITIOUS

(a) Secret
(b) Lazy
(c) Open
(d) Slow

Q12. Select the most appropriate meaning of the given idiom.

Get out of hand

(a) To be able to complete a task
(b) To be anxious
(c) To become difficult to control
(d) To get irritated

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Q13. Select the INCORRECTLY spelt word.

(a) proclaim
(b) procurement
(c) proccesion
(d) problem

Q14. Select the option that will improve the underlined segment in the given sentence. In case no improvement is needed, select 'No improvement'

Despite living in the same neighbourhood, we only did not greet each other.

(a) No improvement
(b) still
(c) mainly
(d) even

Q15. Select the most appropriate synonym of the given word.

SAGA

(a) narrative
(b) abuse
(c) sport
(d) film

Q16. Select the correct indirect form of the given sentence.

The chemist said to me, "I cannot take these medicines back as they are special medicines."

(a) The chemist told me that he could not take these medicines back as they are special medicines.
(b) The chemist told me that he cannot take these medicines back as they are special medicines.
(c) The chemist told me that he could not take those medicines back as they were special medicines.
(d) The chemist told me that I cannot take these medicines back as they are special medicines.

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

Delhi University’s new institution called School of Public Health will offer a _____ of programs.

(a) plethora
(b) few
(c) scale
(d) branch

Q18. Select the option which means the same as the group of words given.

A person who helps others in need

(a) Patron
(b) Donor
(c) Contributor
(d) Samaritan

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

MOROSE

(a) Cheerful
(b) Gloomy
(c) Sullen
(d) Mournful

Q20. Select the most appropriate option to fill in the blank.

It has been announced that after a gap of almost two months, domestic flight services will _____ from next week.

(a) resume
(b) advance
(c) retake

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(d) proceed

Directions

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.

Nehru was a great patriot. He said, “I have received so (1) ____ love and affection from the Indian people (2) __ nothing that I can do can repay (3) __ a small fraction of it, and indeed there (4) __ be no repayment of the great affection my fellow countrymen have showered on (5) ____.

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

(a) many
(b) more
(c) much
(d) little

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

(a) that
(b) either
(c) these
(d) this

Q23. Select the most appropriate option for blank no. 3.

(a) either
(b) only
(c) even
(d) mainly

Q24. Select the most appropriate option for blank no. 4.

(a) can
(b) may
(c) ought
(d) should

Q25. Select the most appropriate option for blank no. 5.

(a) myself
(b) I
(c) mine
(d) me

GENERAL INTELLIGENCE

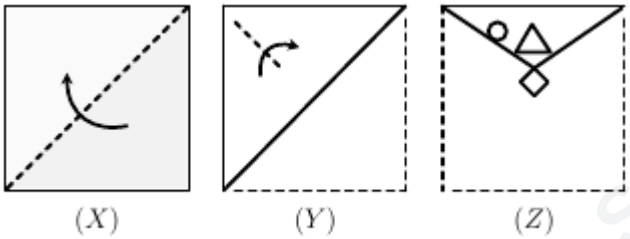
Q26. Select the option in which the words share the same relationship as that shared by the given pair of words.

Zambia : Lusaka

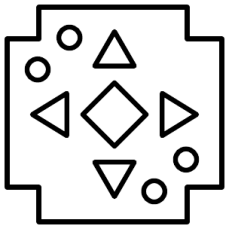
(a) Kuwait : Seoul
(b) Bahrain : Manama
(c) Israel : Tehran
(d) Bhutan : Dhaka

Q27. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?

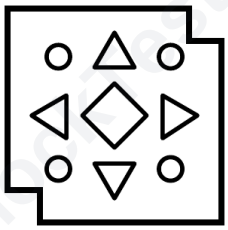
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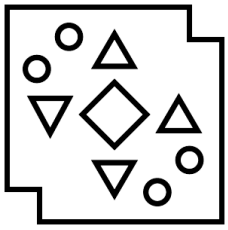
(a)



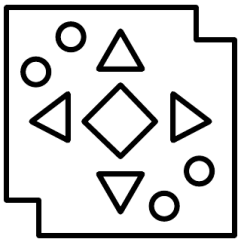
(b)



(c)



(d)



Q28. Which two signs should be interchanged to make the following equation correct?

6 +12 × 8 ÷ 16 - 12 = 8

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

Q29. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

16	**35**	**9**
18	33	8
34	?	5

(a) 34
(b) 33
(c) 32
(d) 35

Q30. Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different

(a) Yellow
(b) Orange
(c) Black
(d) Violet

Q31. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

(a) PTZW
(b) TXDB
(c) MQWT
(d) FJPM

Q32. Select the option that is related to the third number in the same way as the second number is related to the first number.

8 : 36 :: 12 : ?

(a) 82
(b) 79
(c) 78
(d) 80

Q33. In a certain code language, RATIONALE is written as NOIELATAR. How will STATEMENT be written in that language?

(a) METTAENST
(b) ETATNEMTS
(c) METTNEATS
(d) EMTTNETAS

Q34. 'Risk' is related to 'Hazard' in the same way as 'Absurd' is related to '_____'.

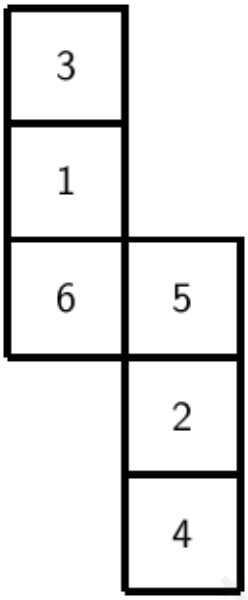
(a) Paranormal
(b) Immoral
(c) Hypothetical
(d) Ridiculous

Q35. Four numbers have been given, out of which three are alike in some manner and one is different. Select the number that is different.

(a) 198
(b) 146
(c) 378
(d) 326

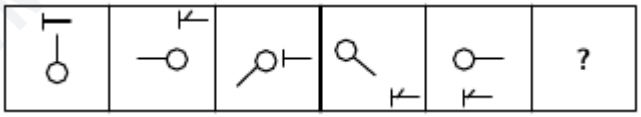
Q36. A cube is made by folding the given sheet. In the cube so formed, what would be the number on the opposite side of '1'?

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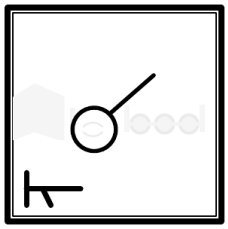


(a) 5
(b) 6
(c) 4
(d) 2

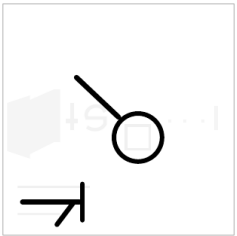
Q37. Select the figure from among the given options that can replace the question mark (?) in the following series.



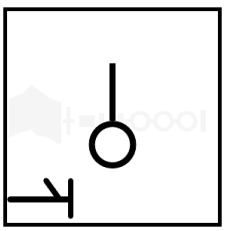
(a)



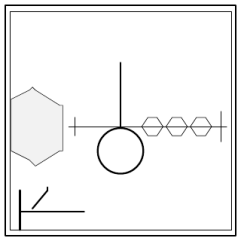
(b)



(c)



(d)



Q38. 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:

Some dogs are carnivores.

All carnivores are animals.

Some animals are tigers.

Conclusions:

I. Some tigers are dogs.

II. Some carnivores are tigers.

III. All dogs are animals.

(a) Only conclusion II follows.
(b) Only conclusions I and III follow.
(c) Only conclusion I follows.
(d) None of the conclusions follow.

Q39. In a certain code language, BIRTH is coded as 25129719 and DEVIL is coded as 23851215. How will GLORY be coded in that language?

(a) 25110928
(b) 20181529
(c) 21082519
(d) 20151892

Q40. 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.

RUNZ : IGLC :: WZSE : ?

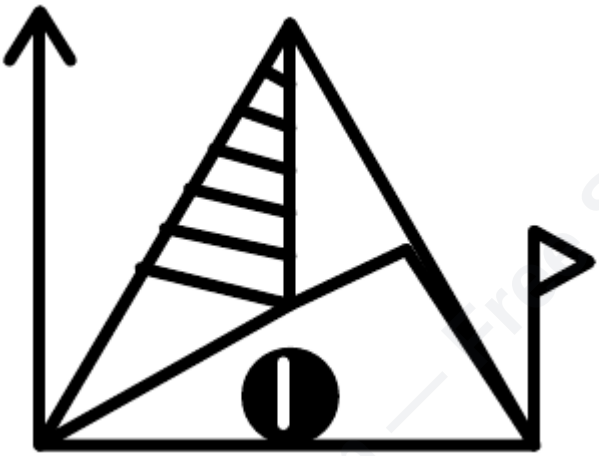
(a) LJOG
(b) DFAJ
(c) DBGX
(d) CAFZ

Q41. The average marks of eight students in the Mathematics exam are 75. If the highest and lowest marks are removed, then the average marks become 80. If the ratio of the highest marks to the lowest marks is 3 : 1, then the highest marks are what percentage of the sum of the all the marks obtained by the eight students in the Mathematics exam?

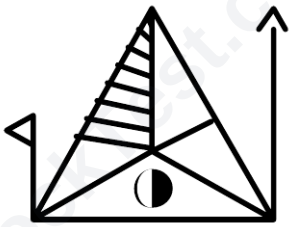
(a) 18%
(b) 15%
(c) 20%
(d) 12%

Q42. Select the correct mirror image of the given figure when the miror is placed at the right side of the figure.

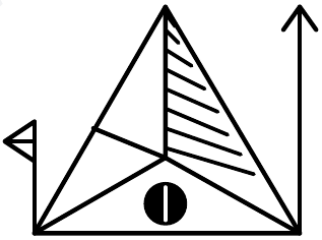
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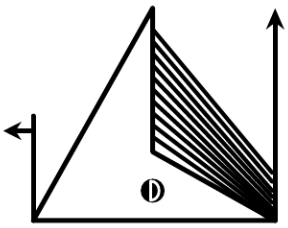
(a)



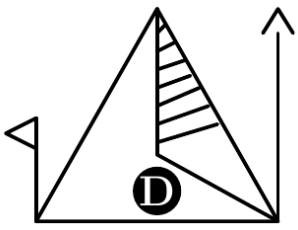
(b)



(c)



(d)



Q43. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

c _ t e m c p _ e m _ p t _ _

(a) p t c e m

(b) c t m e p

(c) m p e t c

(d) p e c t m

Q44. Select the option in which the numbers are related in the same way as are the numbers of the following set.

{12, 20, 32}

(a) {6, 10, 17}
(b) {21, 28, 56}
(c) {18, 30, 48}
(d) {27, 49, 63}

Q45. Read the following information carefully and answer the question given below.

'K $ D' means 'K is the father of D'.
'K < D' means 'K is the wife of D'.
'K > D' means 'K is the daughter of D'.
'K @ D' means 'K is the son of D'.
How is H related to N in the expression 'H > R $ S @ T > N'?

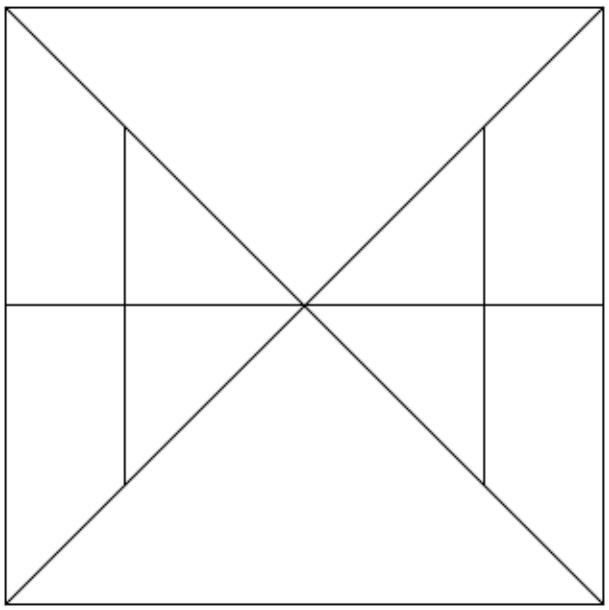
(a) Daughter
(b) Grand-daughter
(c) Niece
(d) Daughter-in-law

Q46. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Presentation
2. Preventive
3. Preparation
4. Pretension
5. Prescription

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

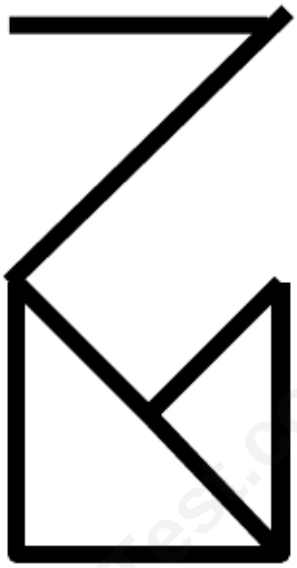
Q47. Find the number of triangles in the given figure.



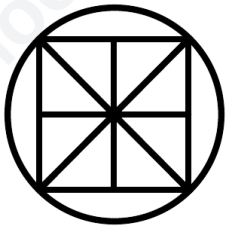
(a) 12
(b) 10
(c) 8

(d) 14

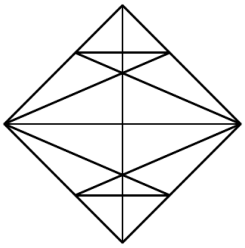
Q48. Select the option in which the given figure is embedded (rotation is NOT allowed).



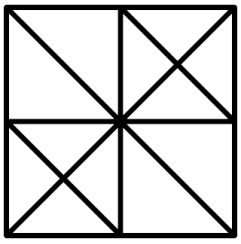
(a)



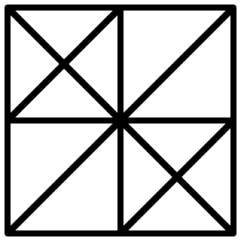
(b)



(c)



(d)



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Q49. Select the number from among the given options that can replace the question mark (?) in the following series.

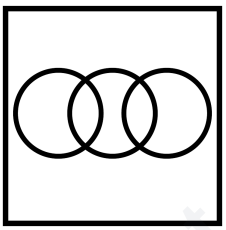
7, 10, 18, 29, ?, 78

(a) 45
(b) 54
(c) 48
(d) 51

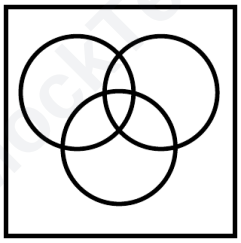
Q50. Select the Venn diagram that best represents the relationship between the following classes.

Men, Uncles, Educated

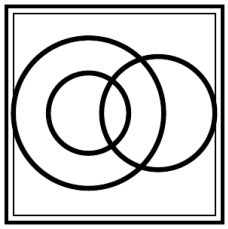
(a)



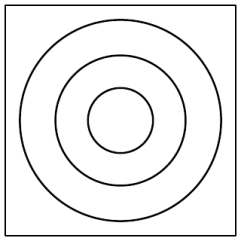
(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. A train, 500 m long, passes a railway platform 400 m long, in one minute with uniform speed. What is the time (in seconds) taken by the train to pass a man riding a motorbike, travelling opposite to the direction of the train, at a speed of 18 km/h?

(a) 54
(b) 30
(c) 48
(d) 25

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Q52. A man invested Rs.2,400 at 5% and Rs.5,400 at 9% simple interest, What amount (in Rs.) will he get from his investments after 6 years?

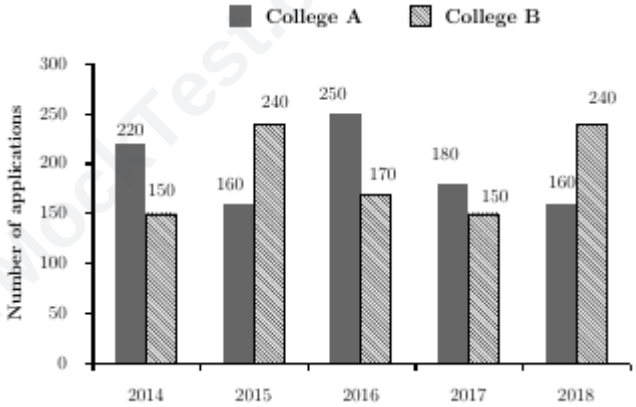
(a) 83,136
(b) 31,1200
(c) 45,600
(d) 11,436

Q53. The value of $a^3 + b^3 + c^3 - 3abc$, when a = 125, b = 127 and c = 129, is:

(a) 3752
(b) 4572
(c) 4752
(d) 4725

Q54. Study the following bar graph and answer the question given below.

The bar graph represents the total number of applications received for B.Sc. Mathematics by two different colleges A and B in 5 different years.



In 2015, out of the total number of applications received by colleges A and B together, only 60% were accepted. What were the total number of applications accepted by colleges A and B together in 2015?

(a) 240
(b) 260
(c) 180
(d) 250

Q55. A and B can complete a piece of work in 27 days and 54 days, respectively. They completed the work in 9 days with the help of C. How many days will C take to complete eight-ninths of the work alone?

(a) 24
(b) 16
(c) 30
(d) 45

Q56. O is the centre of a circle of radius 9 cm. M is a point outside the circle and MN is a tangent to the circle. What is the length (in cm) of OM if the length MN is 12 cm?

(a) 15
(b) 21
(c) 12
(d) 17

Q57. The marked price of a table is Rs.3,000, which is 25% above the cost price. It is sold at a discount of 20% on the marked price. What is the profit or loss percent?

(a) No profit, no loss
(b) Profit, 15%
(c) Profit, 10%
(d) Loss, 5%

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Q58. A shopkeeper bought 95 dozen oranges at Rs. 4.50 each. 7 dozen oranges were rotten and so were discarded. He sold the remaining oranges at Rs. 78 per dozen. What is his profit or loss percent (to the nearest integer)?

(a) Loss, 45%
(b) Loss, 34%
(c) Profit, 34%
(d) Profit, 45%

Q59. If $a = (\sqrt{5}+2)/(\sqrt{5}-2)$ and $b = (\sqrt{5}-2)/(\sqrt{5}+2)$, then the value of $2a^2 + 2b^2 - 5ab$ is equal to:

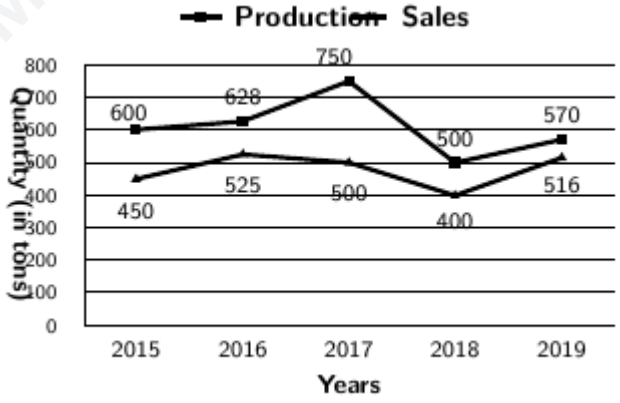
(a) 693
(b) 649
(c) 635
(d) 639

Q60. The daily wages of P, Q and R are in the proportion 5 : 7 : 8. If Q earns Rs.560 per daily, then what are the daily wages (in Rs.) of R and P, respectively?

(a) 590 and 350
(b) 350 and 590
(c) 640 and 400
(d) 400 and 640

Q61. The line graph shows the production (in tonnes) and the sales (in tonnes) of a company.

What is the ratio of the productivity of the company in 2015 and 2016 taken together to the sales in 2017 and 2019 taken together?



(a) 307 : 330
(b) 307 : 229
(c) 307 : 254
(d) 195 : 214

Q62. If 5 tan A = 12, then what is the value of (13 sin A + 20 tan A)/(15 tan A - 13 cos A), where A is an acute angle?

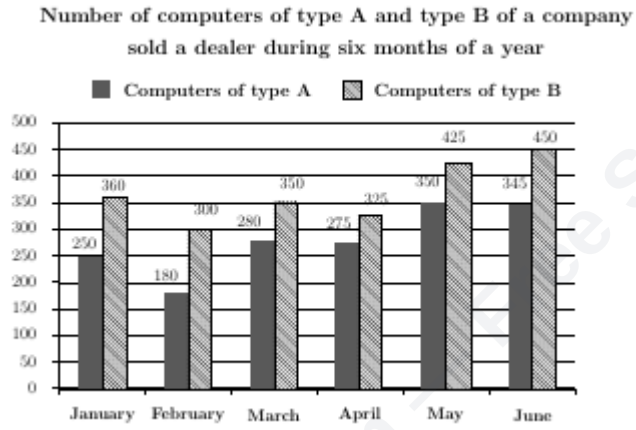
(a) 31/41
(b) 41/50
(c) 129/31
(d) 119/41

Q63. The average age of 7 members of a family is 35 years. If the youngest members are twins and they are 15 years old, then what was the average age (in years) of the family members at the time of the birth of the twins?

(a) 25
(b) 28
(c) 30
(d) 27

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Q64. Study the given graph and answer the question that follows.



The average number of computers of type B sold in January, February, and June exceeds by 20 the number of computers of type A sold in:

(a) March
(b) May
(c) June
(d) April

Q65. If the nine-digit number 259876p05 is completely divisible by 11, then what is the value of $(p^2 + 5)$?

(a) 48
(b) 50
(c) 54
(d) 45

Q66. If $\sin^2 x = 3\cos^2 x$ and $0° \leq x \leq 90°$, then what is the value of x/2 ?

(a) 22.5°
(b) 45°
(c) 15°
(d) 30°

Q67. A's salary is 15% less than B's salary. B's salary is 30% less than C's salary. By how much percent approximately, is C's salary more than A's salary?

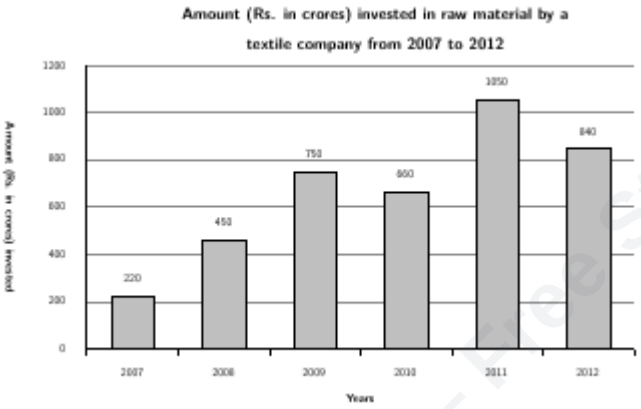
(a) 45
(b) 68
(c) 75
(d) 40

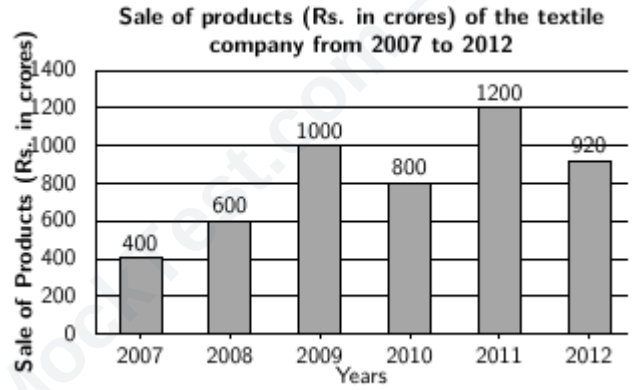
Q68. ΔABC is drawn in a circle such that AC = BC and angle BAC = 65°. From points B and C two tangents are drawn which intersect at point P. What is the measure of angle BPC?

(a) 52.5°
(b) 32.5°
(c) 50°
(d) 55°

Q69. Study the given bar graphs and answer the question that follows.

The bar graphs represent the amount invested in raw materials (in Rs. crore) and the sale of the products, by a textile company in the years 2007-2012. The X-axis represents the years. The Y-axis represents the amount invested in raw materials (in Rs. crore) in figure 1 and the sale of products in figure 2, respectively.





In 2011, the sale of products had increased by a certain percentage with respect to the previous year. In 2012, by what percent should the sale of products increase from its present value so that it shows the same percent increase as had been shown in 2011?

(a) 98
(b) 95
(c) 96
(d) 94

Q70. The side QR of a triangle PQR is extended to a point S. If angle PRS = 104° and angle RQP = 3/5 angle QPR, then the value of angle QPR is:

(a) 55°
(b) 65°
(c) 45°
(d) 58°

Q71. if cosec A = 10, then what is the value of 20 sin A + 9 √11 sec A?
Given that A is an acute angle.

(a) 34
(b) 23
(c) 32
(d) 30

Q72. If (7x - 10y) = 8 and xy = 5, then what is the value of $49x^2 + 100y^2$?

(a) 623
(b) 764
(c) 632
(d) 746

Q73. The value of 56 ÷ [12 + 9 ÷ 3 - {8 + (18 of 2 ÷ 9) - (40 ÷ 5 of 2)}] + (27+2/5 of 75)/(5+2/3×(58 - 37)) is:

(a) -8
(b) 11
(c) -11
(d) 8

Q74. The area of an equilateral triangle is $10.24\sqrt{3}$ m². Its perimeter (in m) is:

(a) 9.6
(b) 19.2
(c) 6.4
(d) 3.2

Q75. The square of the diagonal of a cube is 2175 cm². What is the total surface area (in cm²) of the cube?

(a) 4350
(b) 4305
(c) 4530
(d) 4272

GENERAL AWARENESS

Q76. Which of the following banks was declared as the 'Safest Bank in Asia' for the 12th consecutive year by New York-based trade publication 'Global Finance' in 2020?

(a) ICICI
(b) ICBC
(c) DBS
(d) HSBC

Q77. Which of the following institutes bagged the UNESCO Asia-Pacific Award for cultural heritage conservation in December, 2020?

(a) IIT Roorkee
(b) BBK DAV. College Amritsar
(c) Amar Singh College Srinagar
(d) IIT Delhi

Q78. In which of the following countries is the headquarters of International Table Tennis Federation situated?

(a) England
(b) Thailand
(c) Switzerland
(d) Japan

Q79. _____ became the first state to provide 100% piped tap water in rural households in the year 2020.

(a) Goa
(b) Kerala
(c) Sikkim
(d) Mizoram

Q80. A _____ is a hydraulic structure of impervious material built across a river to create a reservoir on its upstream side for impounding water for various purposes.

(a) dam
(b) fold
(c) block
(d) drainage

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Q81. What was the contribution of the manufacturing sector in India's GDP in Q2 of 2020-21?

(a) Negative growth of 8.6%
(b) Negative growth of 7.5%
(c) Positive growth of 3.4%
(d) Positive growth of 0.6%

Q82. To which group of organic molecules does 'Monosaccharides' belong?

(a) Carbohydrates
(b) Lipids
(c) Proteins
(d) Nucleic acids

Q83. Which state of India has the highest percentage of crop land under irrigation?

(a) Tamil Nadu
(b) Gujarat
(c) Punjab
(d) Karnataka

Q84. Which Article of the Constitution of India envisages that a person shall NOT be qualified to be chosen to fill up a seat in the Parliament unless he is a citizen of India?

(a) Article 61
(b) Article 52
(c) Article 84
(d) Article 76

Q85. Sur Sarovar, also known as Keetham Lake, is a man-made reservoir. In which of the following years was it added in the list of Ramsar Sites?

(a) 2015
(b) 2020
(c) 1992
(d) 1998

Q86. Who among the following is the author of the epic story 'Manu Charitra'?

(a) Ponna
(b) Allasani Peddana
(c) Bānabhatta
(d) Chand Bardai

Q87. _____ contains and manages all the programs and applications that a computer or other device is able to run.

(a) Operating system
(b) Computer hardware
(c) Computer software
(d) Data Science

Q88. Which fibre among the following is used to make rayon clothing?

(a) Pectin
(b) Mucilage
(c) Cellulose
(d) Gum

Q89. CSIR as an autonomous body is the largest research and development organisation in India. What does CSIR stands for?

(a) Chamber of States and Industrial Research
(b) Centre of Space and Industrial Research
(c) Council of Space and Industrial Research

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(d) Council of Scientific and Industrial Research

Q90. 'Ugadi' is the famous festival of which of the following states?

(a) Andhra Pradesh
(b) Goa
(c) Punjab
(d) Uttar Pradesh

Q91. Who among the following won the 2002 International Shooting Sport Federation (ISSF) Champion of Champions combined-air-rifle event to become the first Indian to win that competition?

(a) Manu Bhaker
(b) Anjali Bhagwat
(c) Rahi Sarnobat
(d) Anisa Sayyed

Q92. As on 9 December 2020, how many states of India have implemented 'one nation one ration card system'?

(a) 7
(b) 9
(c) 5
(d) 12

Q93. A _____ helps serve as a set of rules and principles that all persons in a country can agree upon as the basis of the way in which they want the country to be governed.

(a) preamble
(b) draft
(c) constitution
(d) document

Q94. Who among the following was conferred the title of 'Global Visionary of Sustainable Business and Peace' in 2020 by the Federation of Israel Chambers of Commerce for epitomising 'unity, peace and sustainability?

(a) Mukesh Ambani
(b) Azim Premji
(c) Ratan Tata
(d) Lakshmi Mittal

Q95. Who among the following was elected as the President of the All India Chess Federation in January 2021?

(a) Bhagat Singh Chauhan
(b) Sunil Arora
(c) Sanjay Kapoor
(d) Ajay Kumar

Q96. 'Bhand Pather' is a form of theatre dance performed in _____.

(a) Sikkim
(b) Goa
(c) Kashmir
(d) Haryana

Q97. The minimum paid up equity capital to set up a small finance bank should be of _____, as proposed by RBI as of May 2020.

(a) 100 crores
(b) 300 crores
(c) 75 crores
(d) 200 crores

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Q98. What is the keyboard shortcut to add a new row above a given row in Microsoft Excel?

(a) Alt + C + I
(b) Shift + I + R
(c) Alt + I + R
(d) Shift + Spacebar

Q99. Which doctor of Indian origin was honoured with 'Great Immigrants-2020' in the US?

(a) Kiran C Patel
(b) Mayur Lakhani
(c) Siddhartha Mukherjee
(d) Ashok Rajgopal

Q100. Who among the following begun his excavations at Dholavira in 1990?

(a) RS Bisht
(b) MS Vats
(c) RD Banerji
(d) SR Rao

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) Seeming disorderly yet having a structure

The solution is in Hindi. Read it online.

Q2. Answer: (c) cause

The solution is in Hindi. Read it online.

Q3. Answer: (a) and have been caught

The solution is in Hindi. Read it online.

Q4. Answer: (d) had received

The solution is in Hindi. Read it online.

Q5. Answer: (b) BADC

The correct answer is 'BADC'.

Key Points

• The given question is an example of a Para Jumble.

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

• Sentence B will be the starting line because it contains the main idea of the para jumble i.e. Refund(a play).

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• Sentence A states that Wasserkopf returned to his school and asked for a refund of his tuition fee. So, A will follow B.

• Further, Sentence D states that he further declared that he was asking for a refund because he had learned nothing at school & Sentence C states that the situation changed when the Mathematics teacher asked him to calculate the total amount of his refund. So, C will follow D.

• Thus, the correct sequence is:

• B: 'Refund' by Karinthy is a hilarious play about a student named Wasserkopf.

• A: Wasserkopf returns to his school and asks for a refund of his tuition fee.

• D: He further declares that he had learnt nothing at school in all the years.

• C: However, the situation changes when the Mathematics teacher asks him to calculate the total amount.

Correct Sequence: 'Refund' by Karinthy is a hilarious play about a student named Wasserkopf. Wasserkopf returns to his school and asks for a refund of his tuition fee. He further declares that he had learnt nothing at school in all the years. However, the situation changes when the Mathematics teacher asks him to calculate the total amount.

Q6. Answer: (b) angryest

The solution is in Hindi. Read it online.

Q7. Answer: (b) and prays together

The solution is in Hindi. Read it online.

Q8. Answer: (c) cannibal

The solution is in Hindi. Read it online.

Q9. Answer: (c) How many languages are learnt by you at school?

The solution is in Hindi. Read it online.

Q10. Answer: (c) ADBC

The correct answer is 'ADBC'.

Key Points

• The given question is an example of a Para Jumble.

• We know that the first statement of a para jumbled question is usually an independent general statement, a noun, a universal fact, starting off a story, starting of an incident or an event, or it starts with 'most' or 'once'.

• Sentence A will be the starting line because it contains the main idea of the para jumble i.e. the tailor and his wife discovering that their son was not in the house.

• However, Sentence D states that they looked in the garden, and did not find him there. So, D will follow A.

• Further, Sentence B states that the father after looking in the garden went to the roadside and shouted, "John!" & Sentence C states that no one answered. So, C will follow B.

• Thus, the correct sequence is:

• A: One day the tailor and his wife discovered that their son was not in the house.

• D: They looked in the garden, and did not find him there.

• B: The father went to the roadside and shouted, "John!"

• C: No one answered.

Correct Sequence: One day the tailor and his wife discovered that their son was not in the house. They looked in the garden, and did not find him there. The father went to the roadside and shouted, "John!" No one answered.

Q11. Answer: (c) Open

The solution is in Hindi. Read it online.

Q12. Answer: (c) To become difficult to control

The solution is in Hindi. Read it online.

Q13. Answer: (c) proccesion

The solution is in Hindi. Read it online.

Q14. Answer: (b) still

The solution is in Hindi. Read it online.

Q15. Answer: (a) narrative

The solution is in Hindi. Read it online.

Q16. Answer: (c) The chemist told me that he could not take those medicines back as they were special medicines.

The solution is in Hindi. Read it online.

Q17. Answer: (a) plethora

The solution is in Hindi. Read it online.

Q18. Answer: (d) Samaritan

The solution is in Hindi. Read it online.

Q19. Answer: (a) Cheerful

The solution is in Hindi. Read it online.

Q20. Answer: (a) resume

The solution is in Hindi. Read it online.

Q21. Answer: (c) much

The solution is in Hindi. Read it online.

Q22. Answer: (a) that

The correct answer is 'that'.

Key Points

• The most appropriate word for the given blank is 'that'.

• 'That' is used after certain verbs, nouns, and adjectives to introduce a new sentence.

• Hence, 'that' is the most appropriate answer.

Correct Paragraph: "Nehru was a great patriot. He said, "I have received so much love and affection from the Indian people that nothing that I can do can repay (3) ____ a small fraction of it, and indeed there (4) __ be no repayment of the great affection my fellow countrymen have showered on (5) ____."

Q23. Answer: (c) even

The correct answer is 'even'.

Key Points

• The most appropriate word for the given blank is 'even'.

• Even is used for 'emphasizing something that is surprising or to intensify a statement'.

• For Example - They have never even heard of the United States.

• The given passage emphasizes the fact that Nehru could not repay even a small fraction of the love and compassion that he got from the Indian people.

• Hence, 'even' is the most appropriate answer.

Correct Paragraph: "Nehru was a great patriot. He said, "I have received so much love and affection from the Indian people that nothing that I can do can repay even a small fraction of it, and indeed there (4) ____ be no repayment of the great affection my fellow countrymen have showered on (5) ____."

Q24. Answer: (a) can

The correct answer is 'can'.

Key Points

• The most appropriate verb for the given blank is 'can'.

• Can is used for showing that it is possible for somebody/something to do something.

• The given passage states that it is impossible to repay the great affection that Nehru received.

• Hence, 'can' is the most appropriate answer.

Correct Paragraph: "Nehru was a great patriot. He said, "I have received so much love and affection from the Indian people that nothing that I can do can repay even a small fraction of it, and indeed there can be no repayment of the great affection my fellow countrymen have showered on (5) _____."

Q25. Answer: (d) me

The correct answer is 'me'.

Key Points

• The most appropriate pronoun for the given blank is 'me'.

• 'Me' is a pronoun that is used by the speaker to refer to himself/herself as Nehru referred to himself in the given passage.

• Hence, 'me' is the most appropriate answer.

Correct Paragraph: "Nehru was a great patriot. He said, "I have received so much love and affection from the Indian people that nothing that I can do can repay even a small fraction of it, and indeed there can be no repayment of the great affection my fellow countrymen have showered on me."

Q26. Answer: (b) Bahrain : Manama

The logic followed here is:

Zambia : Lusaka → The Lusaka city is the capital of Zambia country.

Now check all the options:

Option (1) Kuwait : Seoul → Kuwait city is the capital of Kuwait country and the Seoul city is the capital of South Korea country.

Option (2) Bahrain : Manama → Manama city is the capital of Bahrain country.

Option (3) Israel : Tehran → The Jerusalem city is the capital of Israel country and the Tehran city is the capital of Iran country.

Option (4) Bhutan : Dhaka → The Thimphu city is the capital of Bhutan country and Dhaka city is the capital of Bangladesh country.

Hence, 'Bahrain : Manama' is the correct answer.

Q27. Answer: (d) [figure]

The image obtained when the paper is unfolded is,

Hence, option 4 is the correct answer.

Q28. Answer: (d) ÷ and +

According to the BODMAS rule:

Option 1 : - and +

Given:

6 + 12 × 8 ÷ 16 - 12 = 8

After interchange the signs;

6 - 12 × 8 ÷ 16 + 12 = 8

By BODMAS rule

6 - 12 × 0.5 + 12 = 8

6 - 6 + 12 = 8

18 - 6 = 8

12 = 8 (LHS ≠ RHS)

Option 2 : + and ×

Given:

6 + 12 × 8 ÷ 16 - 12 = 8

After interchange the signs;

6 × 12 + 8 ÷ 16 - 12 = 8

By BODMAS rule

6 × 12 + 0.5 - 12 = 8

72 + 0.5 - 12 = 8

72.5 - 12 = 8

60.5 = 8 (LHS ≠ RHS)

Option 3: × and ÷

Given:

6 + 12 × 8 ÷ 16 - 12 = 8

After interchange the signs;

6 + 12 ÷ 8 × 16 - 12 = 8

By BODMAS rule

6 + 1.5 × 16 - 12 = 8

6 + 24 - 12 = 8

30 - 12 = 8

18 = 8 (LHS ≠ RHS)
Option 4: ÷ and +
Given:
6 + 12 × 8 ÷ 16 - 12 = 8
After interchange the signs;
6 ÷ 12 × 8 + 16 - 12 = 8
By BODMAS rule
0.5 × 8 + 16 - 12 = 8
4 + 16 - 12 = 8
20 - 12 = 8
8 = 8 (LHS = RHS)
Hence, the answer is “÷ and +”.

Q29. Answer: (c) 32

Given:

16	**35**	**9**
18	33	8
34	?	5

Here the pattern followed in each row is:
(1^(st) number ÷ 2) + (3^(rd) number × 3) = 2^(nd) number
Row 1: 16, 35, 9
(1st number ÷ 2) + (3rd number × 3)
= (16 ÷ 2) + (9 × 3)
= 8 + 27
= 35 = 2nd number
Row 2: 18, 33, 8
(1st number ÷ 2) + (3rd number × 3)
= (18 ÷ 2) + (8 × 3)
= 9 + 24
= 33 = 2nd number
Similarly,
Column 3: 34, ?, 5
(1st number ÷ 2) + (3rd number × 3)
= (34 ÷ 2) + (5 × 3)
= 17 + 15
= 32 = 2nd number
Hence, “32” is correct answer.

Q30. Answer: (c) Black

The logic followed here is:
The colours of the rainbow are Red, Orange, Yellow, Green, Blue, Indigo and Violet.
Option (1) Yellow → Yellow is the colour in the rainbow.
Option (2) Orange → Orange is the colour in the rainbow.
Option (3) Black → Black is not the colour in the rainbow.
Option (4) Violet → Violet is the colour in the rainbow.
All colours are in the rainbow except ‘Black’.
Hence, “Black” is an odd one.
Important Points
Three Primary Colours: Red, Yellow, Blue.
Three Secondary Colours: Orange, Green, Violet.
Six Tertiary Colours: Red-Orange, Yellow-Orange, Yellow-Green, Blue-Green, Blue-Violet, Red-Violet, which are formed by mixing

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a primary with a secondary.

Q31. Answer: (b) TXDB

Table show alphabet serial number –
The pattern followed is,
All follow the same pattern, except 'TXDB'.
Hence, “TXDB” is the odd one.

Q32. Answer: (c) 78

The pattern followed here is,
• Let (1^(st) number : 2^(nd) number)
(1^(st)number ÷ 2) × (1^(st)number + 1) = 2^(nd) number
Now follow the steps:
8 : 36
• (8 ÷ 2) × (8 + 1) = 4 × 9 = 36 = 2^(nd) number
Similarly,
12 : ?
• (12 ÷ 2) × (12 + 1) = 6 × 13 = 78 = 2^(nd) number
Hence, "78" is correct answer.

Q33. Answer: (c) METTNEATS

The table is alphabets place value:
The pattern followed here is:
'RATIONALE' is written as 'NOIELATAR'
Similarly,
'STATEMENT' = ?
Hence, 'STATEMENT' is coded as "METTNEATS".

Q34. Answer: (d) Ridiculous

The logic followed here is:
‘Risk’ is related to ‘Hazard’ → Hazard is the synonyms word of Risk.
Similarly,
‘Absurd’ is related to ‘Ridiculous’ → Ridiculous is the synonyms word of Absurd.
Hence, ‘Ridiculous’ is the correct answer.

Q35. Answer: (c) 378

The logic followed here is:
Number - 2 = perfect square root of number
Option (1) 198 → 198 - 2 = 196 → It is perfect square of 14.
Option (2) 146 → 146 - 2 = 144 → It is perfect square of 12.
Option (3) 378 → 378 - 2 = 376 → It is not a perfect square of any number.
Option (4) 326 → 326 - 2 = 324 → It is perfect square of 18.
Hence, “378” is an odd one.

Q36. Answer: (d) 2

Opposite surface of the open dice can be found by the below method:-
• Alternate surfaces are opposite to each other.
• No two opposite surface are touched by side or by corners
So, by using the above rule we can find the opposite surface of open dice.
Below are the opposite surfaces:-

Numbers	Opposite
3	6
1	2

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5	4

Hence, ‘2’ is the number on the opposite side of the number ‘1'

Q37. Answer: (d) [figure]

The figure that will replace the question mark (?) in the following figure series is shown below:

1) Center position figure rotate 90 degree an anticlockwise and 45 degree an anticlockwise respectively.

2) Upper middle small figure rotate in clockwise direction into the box and each time rotate flip vertically.

Final series is

Hence, ‘option 4’ is the correct answer.

Q38. Answer: (d) None of the conclusions follow.

Statements:

Some dogs are carnivores.

All carnivores are animals.

Some animals are tigers.

The least possible diagram for the given statements is as follows

Conclusions:

I. Some tigers are dogs → False (It is possible but not definite because no statement given for relationship between tigers and dogs)

The possible diagram is:

II. Some carnivores are tigers → False (It is possible but not definite because no statement given for relationship between carnivores and tigers)

The possible diagram is:

III. All dogs are animals → False (It is possible but not definite because no statement given for relationship between dogs and animals)

The possible diagram is:

Hence, “None of the conclusions follow” is the correct answer.

Q39. Answer: (d) 20151892

The table is alphabets place value:

The pattern followed here is:

• consonants is coded as its opposite alphabets place value.

• vowels is coded as + 3 alphabet place value

BIRTH is coded as 25129719

And,

DEVIL is coded as 23851215

Similarly,

GLORY = ?

Hence, 'GLORY' is coded as "20151892".

Q40. Answer: (c) DBGX

The logic here is,

RUNZ : IGLC

Similarly,

WZSE : ?

Hence, "DBGX" is the correct answer.

Q41. Answer: (b) 15%

We know that,

Average = (Sum of Observations) ÷ (Total Numbers of Observations)

• Sum of Observations = Average × Total Numbers of Observations

Given:

1) Average marks of eight students in the Mathematics exam are 75.

• Sum of eight students mathematics marks = 75 × 8 = 600

2) If the highest and lowest marks are removed, then the average marks become 80.

• Sum of six students mathematics marks = 80 × 6 = 480

3) The ratio of the highest marks to the lowest marks is 3 : 1.

Let the common factor of highest and lowest marks is x.

So highest number is 3x and lowest number is x.

From equation (1),

Sum of eight students mathematics marks = highest marks + lowers marks + Sum of six students mathematics marks

Putting the value from eq 1 and 2 and 3.

=> 600 = 3x + x + 480

=> 600 – 480 = 4x

=> 4x = 120

=> x = 30

So, highest number is = 3x = 3 × 30 = 90

The highest marks percentage of the sum of the all the marks obtained by the eight students is

=> (90 × 100) / 600 %

=> 9000 / 600 %

=> 15 %

Hence, the correct answer is “15 %”.

Q42. Answer: (b) [figure]

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

Hence, "option (2)" is the correct answer.

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

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

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

Water image is just a reflection where top and bottom part of the images changed where left and right side of the image remain same

Q43. Answer: (a) p t c e m

Given :- c _ t e m c p _ e m _ p t _ _

By checking options and substituting accordingly.

Option (1) p t c e m → c p t e m / c p t e m / c p t e m

Here c p t e m is repeated.

Option (2) c t m e p → c c t e m / c p t e m / m p t e p

Option (3) m p e t c → c m t e m / c p p e m / e p t t c

Option (4) p e c t m → c p t e m / c p e e m / c p t t m

♦ Option (1) gives a pattern of c p t e m - c p t e m - c p t e m.

Hence, ‘p t c e m’ is the correct answer.

Q44. Answer: (c) {18, 30, 48}

The logic followed here is:

1st number + 2nd number = 3rd number

For {12, 20, 32}

12 + 20 = 32

Similarly,

Option 3: {18, 30, 48}

18 + 30 = 48

Hence, the correct answer is "{18, 30, 48}".

Alternate Method

The logic followed here is:

(2nd number - 1st number) × 4 = 3rd number

For {12, 20, 32}

(20 - 12) × 4 = 8 × 4 = 32

Similarly,

Option 3: {18, 30, 48}

(30 - 18) × 4 = 12 × 4 = 48

Hence, the correct answer is "{18, 30, 48}".

Q45. Answer: (b) Grand-daughter

Given:

'K $ D' means 'K is the father of D'.

'K < D' means 'K is the wife of D'.

'K > D' means 'K is the daughter of D'.

'K @ D' means 'K is the son of D'.

Let us first decode the given symbols and then draw a family tree.

K is				
Symbol	@	<	$	
Meaning	son	wife	father	daughter
to D				

Now break the code of 'H > R $ S @ T > N'

1) H > R

'H > R' means 'H is the daughter of R'

2) R $ S

'R $ S' means 'R is the father of S'.

3) S @ T

'S @ T' means 'S is the son of T'

4) T > N

'T > N' means 'T is the daughter of N'

Hence, H is 'Grand-daughter' of N.

Q46. Answer: (a) 3, 5, 1, 4, 2

According to the sequence in the dictionary:

The correct order of the given words is:

3. Preparation

5. Prescription

1. Presentation

4. Pretension

2. Preventive

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

Q47. Answer: (a) 12

The number of triangles in the given figure is:

So, there are a total of 12 triangles in the figure.

Hence, '12' is the correct answer.

Q48. Answer: (d) [figure]

The embedded part of this image is:

Hence, option (4) is the correct answer.

Q49. Answer: (c) 48

The pattern followed here is:

Hence, '48' is the correct answer.

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Q50. Answer: (c) [figure]

The Venn diagrams best represent the relationship between - Men, Uncles, Educated figures are shown below:

All uncles are men and some uncles and men are educated.

Hence, ‘option 3’ is the correct answer.

Q51. Answer: (d) 25

Given:

A train, 500 m long, passes a railway platform 400 m long, in one minute with uniform speed.

Speed of man = 18 km/h

Formula used:

Speed = Distance/time

When running in the opposite direction on the parallel track, Relative Speed = S1 + S2

Calculation:

Total distance = 500 m + 400 m = 900 m

Speed of train in m/sec = 900/60 = 15 m/sec

Relative Speed = 15 + 18 × 5/18 = 15 + 5 = 20 m/sec

Time taken by the train to pass a man riding a motorbike

=> Distance/Relative Speed = 500/20

=> 25 seconds

Q52. Answer: (d) 11,436

Given:

A man invested Rs.2,400 at 5% and Rs.5,400 at 9% simple interest

Formula used:

Simple Interest(SI) = 1/100 × Principal × Rate × Time

Calculation:

Total SI for 6 years = 1/100 × 2400 × 5 × 6 + 1/100 × 5400 × 9 × 6

=> 720 + 2916 = 3636

Therefore Amount received after 6 years = Principal + SI = 2400 + 5400 + 3636

=> Rs. 11436

Therefore The correct answer is Rs. 11436.

Q53. Answer: (b) 4572

Given:

a = 125, b = 127 and c = 129

Formula used:

$a3 + b3 + c3 - 3abc = 1/2 \times (a + b + c) \times [(a - b)^2 + (b - c)^2 + (c - a)^2]$

Calculation:

Putting values, we get,

=> a3 + b3 + c3 - 3abc = 1/2 × (125 + 127 + 129) × [(125 - 127)2 + (127 - 129)2 + (125 - 129)2]

=> a3 + b3 + c3 - 3abc = 1/2 × 381 × [4 + 4 + 16]

=> a3 + b3 + c3 - 3abc =1/2 × 381 × 24

=> a3 + b3 + c3 - 3abc = 12 × 381

=> a3 + b3 + c3 - 3abc = 4572

Therefore The correct answer is 4572.

Q54. Answer: (a) 240

Given:

In 2015, out of the total number of applications received by colleges A and B together, only 60% were accepted

Calculation:

Total number of applications accepted by colleges A and B together in 2015 = 60/100 × [160 + 240]

=> 6/10 × 400

=> 240

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Therefore The correct answer is 240.

Q55. Answer: (b) 16

Given:

A and B can complete a piece of work in 27 days and 54 days, respectively.

They completed the work in 9 days with the help of C.

Concept used:

Work = efficiency × time

Calculation:

Total work = LCM [27, 54] = 54

Therefore Efficiency of A = 54/27 = 2 units/day

Efficiency of B = 54/54 = 1 unit/day

Efficiency of (A + B + C) = 54/9 = 6 units/day

Efficiency of C = Efficiency of (A + B + C) - {Efficiency of A + Efficiency of B}

Efficiency of C = (6 - {2 + 1}) = 3 units/day

Time taken by C to complete eight-ninths of the work alone = 8/9 × 54/3 = 16 days

Therefore The correct answer is 16 days.

Q56. Answer: (a) 15

Given:

O is the centre of a circle of radius 9 cm.

M is a point outside the circle, and MN is a tangent to the circle.

length of MN is 12 cm

Concept used:

Tangent is perpendicular to radius

Calculation:

Tangent is perpendicular to radius => angle OPR = 90°

Therefore using PGT in ΔOPR, we get

=> $OM^2 = OP^2 + PM^2$

=> $OM = \sqrt{(92 + 122)}$

=> $\sqrt{225}$

=> 15 cm

Therefore The correct answer is 15 cm.

Q57. Answer: (a) No profit, no loss

Shortcut Trick

When an article is marked up by a% and given a discount of b%, the net profit or loss % is found using the successive percentage formula.

Net Effect % = a − b − (a × b) ÷ 100

Here, a = 25 (Markup) and b = 20 (Discount).

=> Net Effect % = 25 − 20 − (25 × 20) ÷ 100

=> Net Effect % = 5 − 500 ÷ 100 = 5 − 5 = 0%

Since the net percentage change is 0%, there is neither profit nor loss. The given marked price is not needed.

Therefore The correct answer is No profit, no loss.

Alternate Method

Given:

Marked Price (MP) = Rs. 3000

Markup = 25% above Cost Price (CP)

Discount = 20% on Marked Price (MP)

Formula Used:

CP = MP × 100 ÷ (100 + Markup %)

Selling Price (SP) = MP × (100 − Discount %) ÷ 100

CP = 2400

MP = 3000

SP = 2400

+25% Markup

-20% Discount

No Profit, No Loss

Calculations:

=> CP = 3000 × 100 ÷ (100 + 25)

=> CP = 3000 × 100 ÷ 125

=> CP = 3000 × 4 ÷ 5 = Rs. 2400

=> SP = 3000 × (100 − 20) ÷ 100

=> SP = 3000 × 80 ÷ 100 = Rs. 2400

=> Here, Cost Price = Selling Price = Rs. 2400.

=> When SP and CP are strictly equal, there is absolutely zero profit and zero loss.

Therefore The correct answer is No profit, no loss.

Additional Information

Marked Price and Successive Changes

When an item is marked up by x% and then discounted by y%, the net profit or loss can be easily found using the successive change formula: Net % = x − y − (x × y) ÷ 100.

Base of Calculation

Profit and Loss percentage is always evaluated on the Cost Price (CP) unless specifically stated otherwise. Similarly, any discount is strictly calculated on the Marked Price (MP).

Successive Discount

If two successive discounts of d1% and d2% are given, the equivalent single discount is [d1 + d2 − (d1 × d2) ÷ 100]%.

Q58. Answer: (c) Profit, 34%

Given:

A shopkeeper bought 95 dozen oranges at Rs. 4.50 each.

7 dozen oranges were rotten and so were discarded.

He sold the remaining oranges at Rs. 78 per dozen

Calculation:

CP of 95 dozen oranges = Rs. 4.50 × 95 × 12 = Rs. 5130

Remaining oranges = 95 - 7 = 88 dozen

SP of 88 dozen oranges = Rs. 78 × 88 = Rs. 6864

Therefore Required profit% = [6864 - 5130]/5130 × 100

=> 1734/5130 × 100

=> 34%

Therefore The correct answer is 34%.

Q59. Answer: (d) 639

Given:

a = (√5+2)/(√5-2) and b = (√5-2)/(√5+2)

Formula used:

(a + b)2 = a2 + b2 + 2ab

Calculation:

ab = (√5+2)/(√5-2) × (√5-2)/(√5+2) = 1

Now (a + b)2 = a2 + b2 + 2ab

=> [(√5+2)/(√5-2) + (√5-2)/(√5+2)]² = a2 + b2 + 2 × 1

=> [(5+4 + 4√5 + 5 +4 - 4√5)/(5-4)]2 = a2 + b2 + 2

=> [18]2 = a2 + b2 + 2

=> a2 + b2 = 324 - 2 = 322

Therefore 2a2 + 2b2 - 5ab = 322 × 2 - 5 × 1

=> 644 - 5

=> 639

Q60. Answer: (c) 640 and 400

Shortcut Trick

Given Ratio P : Q : R = 5 : 7 : 8.

According to the question, Q's share (7 units) = Rs. 560.

Value of 1 unit = 560 ÷ 7 = Rs. 80.

Wage of R (8 units) = 8 × 80 = Rs. 640.

Wage of P (5 units) = 5 × 80 = Rs. 400.

Therefore The correct answer is Rs. 640 and Rs. 400.

Alternate Method

Given:

Ratio of daily wages (P : Q : R) = 5 : 7 : 8

Daily wage of Q = Rs. 560

Formula Used:

Actual Value = Ratio part × Constant factor (x)

Calculations:

Let the daily wages of P, Q, and R be 5x, 7x, and 8x respectively.

=> 7x = 560

=> x = 560 ÷ 7

=> x = 80

Now, finding the wages of R and P:

=> Wage of R = 8x = 8 × 80 = Rs. 640

=> Wage of P = 5x = 5 × 80 = Rs. 400

Therefore The correct answer is Rs. 640 and Rs. 400.

Additional Information

Ratio and Proportion

A ratio compares two quantities by division. If a : b = c : d, then a × d = b × c.

Unitary Method

This method involves finding the value of a single unit and then multiplying it by the required number of units to find the desired value.

Total Wage Calculation

Total wage of all persons = (Sum of all ratio parts) × Value of one unit. For P, Q, and R, Total = (5+7+8) × 80 = Rs. 1600.

Q61. Answer: (c) 307 : 254

Calculation:

Production of the company in 2015 and 2016 taken together = 600 + 628 = 1228

Sales in 2017 and 2019 taken together = 500 + 516 = 1016

Therefore Required ratio = 1228 : 1016 = 307 : 254

Q62. Answer: (c) 129/31

Shortcut Trick

Given 5 tan A = 12 => tan A = 12/5 (Perpendicular/Base).

For a right-angled triangle, (5, 12, 13) is a Pythagorean triplet, so Hypotenuse = 13.

=> sin A = 12/13 and cos A = 5/13.

Expression = (13 × 12/13 + 20 × 12/5) ÷ (15 × 12/5 − 13 × 5/13) = (12 + 48) ÷ (36 − 5) = 60/31 = 1(29/31).

Therefore The correct answer is 1(29/31).

Alternate Method

Given: 5 tan A = 12 => tan A = 12/5

Formula Used: tan A = P/B, sin A = P/H, cos A = B/H

=> Let Perpendicular (P) = 12 and Base (B) = 5.

=> Hypotenuse (H) = $\sqrt{(12^2 + 5^2)} = \sqrt{(144 + 25)} = \sqrt{169} = 13$.

=> sin A = 12/13

=> cos A = 5/13

=> Value = [13 × (12/13) + 20 × (12/5)] ÷ [15 × (12/5) − 13 × (5/13)]
=> Value = [12 + 48] ÷ [36 − 5]
=> Value = 60/31 = 1(29/31).
Therefore The correct answer is 1(29/31).
Additional Information
Trigonometric Ratios
Fundamental ratios in a right-angled triangle: sin θ = P/H, cos θ = B/H, tan θ = P/B.
Pythagorean Triplets
Sets of three integers satisfying $a^2 + b^2 = c^2$. Examples: (3, 4, 5), (5, 12, 13), (8, 15, 17), (7, 24, 25).
Reciprocal Identities
cot A = 1/tan A = B/P; sec A = 1/cos A = H/B; cosec A = 1/sin A = H/P.

Q63. Answer: (b) 28

Given:
The average age of 7 members of family is 35 years
youngest members are twins and they are 15 years old
Concept used:
Sum = average × number
Calculation:
Total age of 7 members of family is 35 years = 35 × 7 = 245 years
At the time of birth of twins, total age of family of 5 members = 245 - 15 × 7 = 140
Therefore At the time of birth of twins, Average age of family of 5 members =140/5 = 28 years

Q64. Answer: (b) May

Calculation:
Average number of computers of type B sold in January, February and June = [360 + 300 + 450]/3 = 1110/3 = 370
Therefore 370 exceeds by 20 in the number of computers of type A sold in a certain month
=> Number of computers of type A sold in that month should be 370 - 20 = 350
and 350 computers of type A are sold in May

Q65. Answer: (c) 54

Shortcut Trick
For divisibility by 11, the difference between the sum of digits at odd positions and even positions must be 0 or a multiple of 11.
Sum of odd positions (2, 9, 7, p, 5) = 23 + p
Sum of even positions (5, 8, 6, 0) = 19
(23 + p) − 19 = 4 + p => For divisibility, 4 + p = 11 => p = 7.
Value of $(p^2 + 5) = 7^2 + 5 = 49 + 5 = 54$.
Therefore The correct answer is 54.
Alternate Method
Given: Number = 259876p05 is divisible by 11.
Divisibility Rule of 11: Sum of digits at odd places − Sum of digits at even places = 0, 11, 22...
=> Let the digits be d1=2, d2=5, d3=9, d4=8, d5=7, d6=6, d7=p, d8=0, d9=5.
=> Sum of odd places (S1) = 2 + 9 + 7 + p + 5 = 23 + p
=> Sum of even places (S2) = 5 + 8 + 6 + 0 = 19
=> Difference (D) = S1 − S2 = (23 + p) − 19 = 4 + p
=> For the number to be divisible by 11, 4 + p must be 11 (since p is a single digit 0-9).
=> 4 + p = 11 => p = 7
=> Calculation for $(p^2 + 5)$:
=> $(7)^2 + 5 = 49 + 5 = 54$
Therefore The correct answer is 54.
Additional Information
Divisibility Rule of 9
A number is divisible by 9 if the sum of all its digits is divisible by 9.

Divisibility Rule of 8

A number is divisible by 8 if the last three digits of the number are divisible by 8.

Divisibility Rule of 11 (Alternative)

Subtract the last digit from the rest of the number; if the result is divisible by 11, the original number is too.

Q66. Answer: (d) 30°

Given:

sin2x = 3 cos2x and 0° ≤ x ≤ 90°

Calculation:

sin2x = 3 cos2x => sin2x/cos2x = 3

=> tan2x = 3

=> tanx = √3

=> tanx = tan60°

=> x = 60°

=> x/2 = 60°/2

=> x/2 = 30°

Q67. Answer: (b) 68

Given:

A's salary is 15% less than B's salary. B's salary is 30% less than C's salary.

Calculation:

A's salary is 15% less than B's salary => A's salary : B's salary = 85 : 100 = 17 : 20

B's salary is 30% less than C's salary => B's salary : C's salary = 70 : 100 = 7 : 10

Therefore Salary of A : B : C = 17 × 7 : 20 × 7 : 20 × 10 = 119 : 140 : 200

=> A's salary : C's salary = 119 : 200

Therefore C's salary is more than A's salary by (200 - 119)/119 × 100

=> (81/119) × 100

=> 68%

Q68. Answer: (c) 50°

Shortcut Trick

By the Alternate Segment Theorem, the angle between a tangent and a chord equals the angle subtended by that chord in the alternate segment.

=> angle PBC = angle BAC = 65°

=> angle PCB = angle BAC = 65°

In ΔBPC, the sum of all interior angles is 180°:

=> angle BPC + 65° + 65° = 180°

=> angle BPC = 180° − 130° = 50°

Therefore The correct answer is 50°.

Alternate Method

65° ? A B C P O

Given:

ΔABC is inscribed in a circle with center O.

AC = BC and angle BAC = 65°.

Tangents at B and C meet at external point P.

Calculations:

=> The angle subtended by chord BC at the circumference is angle BAC = 65°.

=> The angle subtended by an arc at the center is exactly double the angle subtended at the circumference.

=> Central Angle angle BOC = 2 × angle BAC = 2 × 65° = 130°.

=> The radius drawn to the point of contact is directly perpendicular to the tangent line.

=> Therefore, angle OBP = 90° and angle OCP = 90°.

=> In quadrilateral OBPC, the sum of all internal angles is strictly 360°.

=> angle BOC + angle OBP + angle BPC + angle OCP = 360°

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=> 130° + 90° + angle BPC + 90° = 360°

=> 310° + angle BPC = 360°

=> angle BPC = 360° − 310° = 50°

Therefore The correct answer is 50°.

Additional Information

Alternate Segment Theorem

The angle between a tangent line and a chord passing through the point of contact is perfectly equal to the angle subtended by that same chord in the alternate segment of the circle.

Angle Between Intersecting Tangents

The angle between two distinct tangents drawn from an external given point to a circle is supplementary to the central angle subtended by the chord connecting their respective points of contact (angle P + angle O = 180°).

Inscribed Angle Theorem

The angle strictly subtended by an arc at the center is mathematically double the angle subtended by it at any remaining part of the circle's circumference.

Q69. Answer: (c) 96

Calculation:

Percentage increase in sale of products in 2011 with respect to previous year = [1200 - 800]/800 × 100 = 50%

Therefore The sale of products in 2012 should increase 50% from its present value so that it shows the same percent increase as had been shown in 2011

=> For same percentage increase sale of products in 2012 should be = 1200 × (100 + 50)/100 = 1200 × 3/2 = 1800

Therefore Required percentage = (1800 - 920)/920 × 100

=> (880/920) × 100 = 96%

Therefore The correct answer is 96%.

Q70. Answer: (b) 65°

Given:

Side QR of a triangle PQR is extended to a point S.

angle PRS = 104° and angle RQP = 3/5 angle QPR

Concept used:

Exterior angle property of triangle angle QPR + angle PQR = angle PRS

Calculation:

Let angle QPR = p

then by Exterior angle property of triangle,

=> angle QPR + angle PQR = angle PRS

=> p + 3/5 × p = 104°

=> 8/5 × p = 104°

=> p = 104° × 5/8 = 65°

Therefore angle QPR = 65°

Q71. Answer: (c) 32

Given:

cosec A = 10

Concept used:

$H^2 = P^2 + B^2$

sinA = P/H, cosA = B/H, sinA = 1/cosecA, cosA = 1/secA

Calculation:

cosec A = 10/1 = H/P

comparing values, H = 10, P = 1 then $B = \sqrt{[H^2 - P^2]} = \sqrt{[102 - 12]}$

=> $B = \sqrt{99} = 3\sqrt{11}$

Putting values, we get,

=> 20 sin A + 9 √11 sec A

=> 20 × 1/10 + 9 √11 × 10/[3√11]

=> 2 + 3 × 10

=> 32

Q72. Answer: (b) 764

Given:

(7x - 10y) = 8 and xy = 5

Formula used:

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

Calculation:

=> $(7x - 10y)^2 = 8^2$

=> 49x2 + 100y2 - 2 × 7x × 10y = 64

=> 49x2 + 100y2 - 140xy = 64

=> 49x2 + 100y2 = 64 + 140xy

=> 49x2 + 100y2 = 64 + 140 × 5

=> 49x2 + 100y2 = 764

Therefore The correct answer is 764.

Q73. Answer: (b) 11

Calculation:

=> 56 ÷ [12 + 9 ÷ 3 - {8 + (18 of 2 ÷ 9) - (40 ÷ 5 of 2)}] + (27+2/5 of 75)/(5+2/3×(58 - 37)) => 56 ÷ [12 + 9 / 3 - {8 + (18 × 2 × 1/9) - (40 × 1/5 × 1/2)}] + (27+2/5 × 75)/(5+2/3×21)

=> 56 ÷ [12 + 3 - {8 + (2 × 2) - 4}] + (27+2 × 15)/(5+2×7)

=> 56 ÷ [15 - 8] + 57/19

=> 56/7 + 3

=> 8 + 3

=> 11

Q74. Answer: (b) 19.2

Given:

The area of an equilateral triangle is 10.24√3 m2

Formula used:

Area of equilateral triangle = √3/4 × a2

Perimeter of equilateral triangle = 3a

Calculation:

ATQ, √3/4 × a2 = 10.24√3 m2

=> a2 = 10.24 × 4

=> a = 3.2 × 2 = 6.4

Therefore Perimeter of equilateral triangle = 3a = 3× 6.4

= 19.2 cm

Q75. Answer: (a) 4350

Given:

The square of the diagonal of a cube is 2175 cm2.

Formula used:

Diagonal of a cube = √3a, where a = side of cube

TSA of cube = $6a^2$

Calculation:

ATQ, $(\sqrt{3}a)^2 = 2175$

=> 3a2 = 2175

=> a2 = 725

Therefore TSA of cube = 6a2 = 6 × 725 = 4350 cm^2

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Q76. Answer: (c) DBS

The correct answer is DBS.

• Singapore, Hong Kong, Indonesia, India, China, Taiwan, Regional, 20 Oct 2020 - DBS Bank has been named the “Safest Bank in Asia” for the 12th consecutive year by New York-based trade publication Global Finance.

Key Points

Bank	Details
ICICI	• Industrial Credit and Investment Corporation of India - Headquarters: Vadodara - Founded: 1994, Vadodara
ICBC	• Industrial and Commercial Bank of China - Headquarters: Xicheng District, Beijing, China - Founded: 1 January 1984, Beijing, China
DBS	• Development Bank of Singapore Limited - Headquarters: Singapore - Founder: Government of Singapore - Founded: 16 July 1968, Singapore
HSBC	• Hongkong and Shanghai Banking Corporation Limited - Headquarters: London, United Kingdom - Founder: Thomas Sutherland - Founded: 3 March 1865, Hong Kong

Q77. Answer: (c) Amar Singh College Srinagar

The correct answer is Amar Singh College Srinagar.

• On December 16, 2020, Amar Singh College, Srinagar, Jammu and Kashmir received the Award of Merit at the 2020 UNESCO (United Nations Educational, Scientific and Cultural Organization) Asia-Pacific Awards for Cultural Heritage Conservation.

Important Points

• The winners for the 2020 UNESCO Asia-Pacific Awards for Cultural Heritage Conservation were released by UNESCO Bangkok on 16 December 2020.

• UNESCO New Delhi is pleased to share that Delhi’s Heritage Park, Sunder Nursery received the Award of Excellence for their successful efforts towards ecological and heritage restoration. Sunder Nursery was recognized for Special Recognition for Sustainable Development, in addition to its Award of Excellence, for its “transformative impact in turning a barren site into an urban oasis in the heart of New Delhi.”

• Other Awardees include:

• Koothambalam at Guruvayoor Temple, Kerala received the Award of Distinction for their efforts to revitalize the link of architectural heritage with its artistic traditions.

• Amar Singh College, Srinagar and Malabari Hall Building, Seva Sadan Society, Mumbai received the Award of Merit for their attempts to bring back the building to its former glory and their use of community in the restoration of its historic compound respectively.

Q78. Answer: (c) Switzerland

The correct answer is Switzerland.

• The headquarters of the International Table Tennis Federation is situated in Lausanne, Switzerland.

• The International Table Tennis Federation (ITTF) is the governing body for all national table tennis federations.

• The role of the ITTF includes overseeing rules and regulations and seeking technical improvements to the game of table tennis.

• The ITTF is responsible for organizing several international competitions, including the World Table Tennis Championships which has been running since 1926.

Additional Information

Organization	Headquarters
International Olympic Committee	Lausanne, Switzerland
International Hockey Federation (FIH)	Lausanne, Switzerland
International Boxing Association (AIBA)	Lausanne, Switzerland
International Table Tennis Federation (ITTF)	Lausanne, Switzerland
International Basketball Federation (FIBA)	Mies, Switzerland
World Athletics	Monaco

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International Cricket Council (ICC)	Dubai, UAE
International Shooting Sports Federation (ISSF)	Munich, Germany
Badminton World Federation (BWF)	Kuala Lumpur, Malaysia
International Tennis Federation (ITF)	London, Great Britain

Q79. Answer: (a) Goa

The correct answer is Goa.

• Goa has become the first state in India to provide 100 per cent tap water connections in the rural areas covering 2.30 lakh households.

Key Points

• The Jal Jeevan Mission of the Central Government aims to provide piped water to all rural households by 2024.

• Two districts- South Goa with 98,000 households in 191, gram-panchayats and North Goa with one lakh 65 thousand rural households have been fully saturated with assured water supply through the tap connections.

• Goa to strengthen the water testing facilities is also in the process of getting 14 water quality testing laboratories that are accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL)

• Under Jal Jeevan Mission, it is mandatory that 5 persons in every village, especially women, must be trained in using field test kits to test the water.

Q80. Answer: (a) dam

The correct answer is dam.

• A dam is a hydraulic structure of fairly impermeable material constructed across a river to form a reservoir on its upstream to hold water for various purposes.

• These purposes can be irrigation, hydropower, water supply, flood control, shipping, fisheries and recreation.

Additional Information

Dams in India

Highest Dam in India	**• Tehri Dam - River: Bhagirathi River - Location: Uttarakhand**
Longest Dam in India	• Hirakud Dam - River: Mahanadi - Location: Odisha
Oldest Dam in India	• Kallanai Dam - River: Kaveri - Location: Tamil Nadu

Q81. Answer: (d) Positive growth of 0.6%

The correct answer is Positive growth of 0.6%.

• Positive growth of 0.6% was the contribution of the manufacturing sector in India's GDP in Q2 of 2020-21.

Additional Information

• The Indian economy is expected to witness a real GDP expansion of 9.2% in 2021-22 after contracting in 2020-21.

• The GDP contracted by 7.3% in 2020-21.

• The revenue receipts of the central government from Apr to Nov 2021 have gone up by 67.2% (YoY).

• India's Consumer Price Index inflation stood at 5.6% YoY in December 2021.

• Production Linked Incentive Scheme was approved for 13 sectors.

Q82. Answer: (a) Carbohydrates

The correct answer is Carbohydrates.

Key Points

• Monosaccharides are the simplest form of sugar and the most basic units (monomers) of carbohydrates.

• They are usually colourless, water-soluble, and crystalline solids.

• Carbohydrates also consist of long chains of linked sugar molecules.

• These long chains often contain hundreds or thousands of monosaccharides that are bound together to form polysaccharides.

• Plants store sugar in polysaccharides called starch.

Additional Information

• A lipid is any of various organic compounds that are insoluble in water.

• These include fats, waxes, oils, hormones and some components of membranes and act as energy-storing molecules and chemical messengers.

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• Proteins are large, complex molecules that play many important roles in the body.
• They perform most functions in cells and are essential for the structure, function and regulation of body tissues and organs.
• Nucleic acids are naturally occurring chemical compounds that serve as the primary information-carrying molecules in cells.
• They play a particularly important role in directing protein synthesis.
• The two main classes of nucleic acids are deoxyribonucleic acid (DNA) and ribonucleic acid (RNA).

Q83. Answer: (c) Punjab

The correct answer is Punjab.
• Punjab tops the country in terms of land under irrigation, with 98% of its cropland under irrigation.
• Then comes Haryana, U.P. and A.P respectively.

Key Points
• Punjab (the land of five rivers) is one of the most fertile regions on earth.
• The state of Punjab which has earned the name of "the food basket of the country" and "the granary of India", has been contributing 40 per cent rice and 50 to 70 per cent wheat for the last two decades.
• Agriculture in the state of Punjab is highly intensive in terms of land, capital, energy, nutrients, agricultural inputs and water etc.
• Firozpur district is the largest producer of wheat and rice in the state.
• The largest area is under wheat crop.
• Other important crops of the state are rice, cotton, sugarcane, bajra, maize, barley and fruits.

Q84. Answer: (c) Article 84

The correct answer is Article 84.
• Article 84 (Qualification for membership of Parliament)
• A person shall not be qualified to be chosen to fill a seat in Parliament unless he
• (a) is a citizen of India, and makes and subscribes before some person authorised in that behalf by the Election Commission an oath or affirmation according to the form set out for the purpose in the Third Schedule;
• (b) is, in the case of a seat in the Council of States, not less than thirty years of age and, in the case of a seat in the House of the People, not less than twenty five years of age; and
• (c) possesses such other qualifications as may be prescribed in that behalf by or under any law made by Parliament.

Additional Information
• Article 61 - Procedure for impeachment of the President.
• Article 52 - There shall be a President of India.
• Article 76 - Attorney General for India.

Q85. Answer: (b) 2020

The correct answer is 2020.
• Sur Sarovar, also known as Keetham Lake, is a man-made reservoir that was added to the list of Ramsar Sites in 2020.
• Sur Sarovar, also known as Keetham Lake, is a human-made reservoir; originally created to supply water to the city of Agra in summer, the wetland soon became an important and rich ecosystem.
• The Site's patchwork of different habitat types provides refuge to resident and migratory birds, and more than 60 species of fish.

Key PointsRecently added Ramsar sites in India:

Ramsar sites	State Location	Date of Declaration
Asan Barrage	Uttarakhand	21 July 2020
Kanwar Taal or Kabar Taal Lake	Bihar	21 July 2020
Sur Sarovar	Uttar Pradesh	13 November 2020
Lonar Lake	Maharashtra	13 November 2020
Tso Kar	Ladakh	17 November 2020
Sultanpur National Park	Haryana	25 May 2021
Bhindawas Wildlife Sanctuary	Haryana	25 May 2021
Thol Lake	Gujarat	05 April 2021
Wadhvana Wetland	Gujarat	05 April 2021

Bakhira Sanctuary	Uttar Pradesh	2 February 2022
Khijadiya Bird Sanctuary	Gujarat	2 February 2022

Important Points

• The Ramsar Convention on Wetlands of International Importance is a treaty specifically for the conservation and sustainable use of such sites as waterfowl habitats.

• It is named after the Iranian city of Ramsar, where the treaty was signed in 1971.

Q86. Answer: (b) Allasani Peddana

The correct answer is Allasani Peddana.

• Allasani Peddana is the author of the epic story 'Manu Charitra'.

• 'Manu Charitra' by the early sixteenth-century poet Allasani Peddana, is the definitive literary monument of Telugu civilization and a powerful embodiment of the imperial culture of Vijayanagara, the last of the great premodern south Indian states.

Key Points

• Manu Charitra (The Story of Manu):

• It is the story of Sarvochisha Manu, who ruled the last cosmic age and who serves as the prototype for the first human being here.

• Pedana explores the complex workings of the dramatic displacement, imaginative projections that will be required for the birth and formation of Manu.

• The Story of Manu is also a book about kingship and its requirements during the time of Krishnadevaraya, the most powerful of the Vijayanagara rulers, who was a close friend and mentor of the poet.

• The Story of Manu, presented in the Telugu script with the first translation in any language, is a true masterpiece of early modern South Indian literature.

Additional Information

• Ponna

• Works: Jinaksharamale, Bhuvanaika-Ramabhyudaya, Shantipurana

• Bānabhatta

• Works: Harshacharita, Kadambari

• Chand Bardai:

• Books: Prithviraj Raso

Q87. Answer: (a) Operating system

The correct answer is Operating system.

• The operating system contains and manages all the programs and applications that a computer or other device is able to run.

• Operating System (OS) manages all the software and hardware of the computer.

• Most of the time, there are several different computer programs running at the same time, and they all need to access your computer's central processing unit (CPU), memory, and storage.

• The operating system coordinates all of this to ensure that each program gets what it needs.

• Some examples of operating systems include Apple macOS, Microsoft Windows, Google's Android OS, Linux Operating System, and Apple iOS.

Additional Information

• Computer hardware is the physical component that a computer system needs to function.

• This includes everything with a circuit board that operates within a PC or laptop; Including motherboard, graphics card, CPU (central processing unit), ventilation fans, webcam, power supply, etc.

• The software includes the complete set of programs, procedures and routines associated with the operation of a computer system.

• The term was coined to distinguish these instructions from the hardware - that is, the physical components of a computer system.

• Data science is an interdisciplinary field that uses scientific methods, procedures, algorithms and systems to extract knowledge and insights from noisy, structured and unstructured data, and applies knowledge and actionable insights from data across a wide range of application domains.

Q88. Answer: (c) Cellulose

The correct answer is Cellulose.

• Rayon is a man-made fiber prepared by chemical treatment from a natural raw material called cellulose.

• The cellulose needed to make rayon is obtained from wood pulp. Rayon is obtained by chemical treatment of wood pulp.

Additional Information

• Pectin is a fiber found in fruits.

• It is often used as a thickener in cooking and baking.

• It is also sometimes used to make medicine.

• People use pectin for high cholesterol, high triglycerides, heartburn, and many other conditions, but there is no good scientific evidence to support these uses.

• Mucilage is a thick, sticky substance produced by almost all plants and some microorganisms.

• These microorganisms include protists which use it for their movement.

• The direction of their movement is always opposite to that of the mucous secretion.

• It is a polar glycoprotein and an exopolysaccharide. In plants, mucilage plays a role in water and food storage, seed germination and membrane thickening.

• Cacti (and other succulents) and flaxseeds are especially rich sources of mucilage.

• Gum base is made of polymers, plasticizers, and resins. Polymers, including elastomers, are responsible for the stretchy and sticky nature of chewing gum.

Q89. Answer: (d) Council of Scientific and Industrial Research

The correct answer is Council of Scientific and Industrial Research.

• The Council of Scientific and Industrial Research abbreviated as CSIR was established as an autonomous body in September 1942 by the Government of India as the largest research and development organization in India. emerged from.

Important Points

• CSIR:

• Parent institution - Ministry of Science & Technology, Government of India

• Founder(s) - Arcot Ramaswamy Mudaliar and Shanti Swaroop Bhatnagar

• Established - 26 September 1942

• President - Prime Minister of India

Additional Information

• Some other organisations:

• Indian Space Research Organization (ISRO)

• Defence Research and Development Organization (DRDO)

• Indian Council of Medical Research (ICMR)

• Bhabha Atomic Research Centre (BARC)

• Indian Council of Agricultural Research (ICAR)

• Tata Institute of Fundamental Research (TIFR)

Q90. Answer: (a) Andhra Pradesh

The correct answer is Andhra Pradesh.

• Ugadi is New Year's Day for the states of Andhra Pradesh, Telangana and Karnataka in India.

• It is celebrated in these regions as a festival on the first day of the Hindu lunar calendar month of Chaitra.

Additional Information

State	List of Indian Festivals
Andhra Pradesh	Dasara, Ugadi, Deccan Festival, Brahmotsavam, Bhishma Ekadasi, Sankranthi, Tyagaraja Festival
Goa	Mando, Shigmo Mela
Punjab	Lohri, Baisakhi, Bandi Chhor Divas, Guru Parab
Uttar Pradesh	Ram Navmi, Ganga Mahotsav, Navaratri, Khichdi, Brahmostav, Kans ka Mela, Sravana festival, Ram Leela.

Q91. Answer: (b) Anjali Bhagwat

The correct answer is Anjali Bhagwat.

• Anjali Bhagwat is an Indian rifle shooter who won the 2002 International Shooting Sport Federation (ISSF) Champion of Champions combined-air-rifle event, becoming the first Indian to win the competition.

Key Points

• Indian shooters who have excelled at international events include Abhinav Bindra, Jaspal Rana, Jitu Rai, Rajyavardhan Singh Rathore, Vijay Kumar, Gagan Narang, Apurvi Chandela, Ronjan Sodhi, Anjali Bhagwat, Heena Sidhu, Shreyasi Singh, Manu Bhaker, Anisa Sayyed, Rahi Sarnobat and Saurabh Chaudhary.

Important Points

Medal winners in shooting at Summer Olympics for India:

Games	Event	Name	Medal
2004 Athens	Men's double trap	Rajyavardhan Singh Rathore	Silver
2008 Beijing	Men's 10m Air Rifle	Abhinav Bindra	Gold
2012 London	Men's 10m Air Rifle	Gagan Narang	Bronze
2012 London	Men's 25m Rapid Fire Pistol	Vijay Kumar	Silver

Q92. Answer: (b) 9

The correct answer is 9.

• As of 9th December 2020, nine states have successfully completed reforms in the Public Distribution System (PDS) and implemented the 'One Nation One Ration Card System', under which a beneficiary will be able to buy subsidised foodgrains from any Fair Price Shops (FPS) across the country.

• The states which have implemented the 'One Nation One Ration Card System' are Andhra Pradesh, Goa, Gujarat Haryana, Karnataka, Kerala, Telangana, Tripura and Uttar Pradesh.

Additional Information

• One Nation One Ration Card:

• The ONORC scheme is being implemented by the department for the nationwide portability of ration cards under the National Food Security Act (NFSA).

• Through this, all eligible ration card holders/beneficiaries covered under NFSA can get their eligibility from anywhere in the country.

• Benefits

• The system allows all NFSA beneficiaries, especially migrant beneficiaries, to claim full or partial food grains from any Fair Price Shop (FPS) in the country through existing ration cards with biometric/Aadhaar authentication.

• This system allows their family members back home, if any, to claim the remaining food grains on the same ration card.

Important Points

• The One Nation One Ration Card facility was started as inter-State portability of ration cards in 4 States w.e.f. August 2019.

• As of February 2022, 35 states/UTs have implemented the scheme.

Q93. Answer: (c) constitution

The correct answer is constitution.

• A constitution aid serves as a set of rules and principles on which all the individuals of a country can agree, the way they want the country to be governed.

• This includes not only the type of government, but also an agreement on certain ideals, which they all believe the country should uphold.

Key Points

• A democratic country needs a constitution, because the constitution serves many purposes.

• First, it sets out certain ideals that form the basis of the country we aspire to or live in as a citizen.

• Or, put another way, a constitution tells us what is the fundamental nature of our society. A country is usually made up of different communities of people who share certain beliefs, but do not necessarily agree on all issues.

Additional Information

• The Preamble to the Constitution of India lays down the principles of the Constitution and indicates the sources of its authority.

• It was adopted by the Constituent Assembly on 26 November 1949 and celebrated as Republic Day in India on 26 January 1950.

• The constitution was drafted by the Constituent Assembly, which was elected by the elected members of the provincial legislatures.

• The 389-member assembly (reduced to 299 after the Partition of India) took nearly three years to draft the constitution, with eleven sessions spanning a period of 165 days.

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Q94. Answer: (c) Ratan Tata

The correct answer is Ratan Tata.

• Veteran industrialist Ratan Tata was conferred with the title of "Global Visionary of Sustainable Trade and Peace" by the Federation of Indo-Israel Chambers of Commerce (FIICC) for his symbol of "Unity, Peace and Stability".

Key Points

• Ratan Tata is an Indian industrialist, philanthropist and former chairman of Tata Sons.

• He was also chairman of the Tata Group from 1990 to 2012, and again, as interim chairman from October 2016 to February 2017, and continues to head its charitable trusts.

• He is the recipient of two of India's highest civilian awards, the Padma Vibhushan (2008) and the Padma Bhushan (2000).

Additional Information

• Mukesh Dhirubhai Ambani is an Indian billionaire businessman, chairman, managing director and largest shareholder of Reliance Industries Limited.

• Azim Hashim Premji is an Indian businessman, investor, engineer and philanthropist who was the chairman of Wipro Limited. Premji continues to be a non-executive member and founding chairman of the board.

• He is informally known as the Czar of the Indian IT Industry.

• Lakshmi Niwas Mittal is an Indian steel magnate based in the United Kingdom.

• He is the executive chairman of Arcelor Mittal, the world's largest steelmaker, as well as the chairman of stainless steel maker Aprum.

Q95. Answer: (c) Sanjay Kapoor

The correct answer is Sanjay Kapoor.

• Sanjay Kapoor was elected President of the All India Chess Federation (AICF) while Bharat Singh Chauhan retained the Secretary's post in the polls held online on 4 January 2021.

Key Points

Important Sports Organizations with their Headquarters:

Organization	Headquarters
International Olympic Committee	Lausanne, Switzerland
International Hockey Federation (FIH)	Lausanne, Switzerland
International Boxing Association (AIBA)	Lausanne, Switzerland
International Table Tennis Federation (ITTF)	Lausanne, Switzerland
International Basketball Federation (FIBA)	Mies, Switzerland
World Athletics	Monaco
International Cricket Council (ICC)	Dubai, UAE
International Shooting Sports Federation (ISSF)	Munich, Germany
Badminton World Federation (BWF)	Kuala Lumpur, Malaysia
International Tennis Federation (ITF)	London, Great Britain

Additional Information

• The All India Chess Federation (AICF) is the central administrative body for the game of chess in India.

• Established in 1951.

• The organization is also in charge of managing women's chess in India.

• It's present headquarter is in New Delhi.

Q96. Answer: (c) Kashmir

The correct answer is Kashmir.

• Bhand Pather is a traditional dance drama of the Kashmir region.

• Bhand Pather is a centuries-old traditional folk theatre of Kashmir.

• Brandon's plays are called Pather, a term that may have been derived from Patra, a dramatic character.

Additional Information

Locations	List of Folk Dances in India

Goa	Tarangamel, Koli, Dekhni, Fugdi, Shigmo, Ghode, Modni, Samayi nrutya, Jagar, Ranmale.
Haryana	Jhumar, Phag, Daph, Dhamal, Loor, Gugga, Khor.
Sikkim	Chu Faat, Sikmari, Singhi Chaam or the Snow Lion, Yak Chaam, Denzong Gnenha, Tashi Yangku.
Kashmir	Bachha Nagma, Bhand Jashan, Bhand Pather, Dumhal, Hafiza, Kud, Rouf, Wuegi-Nachun.

Q97. Answer: (d) 200 crores

The correct answer is 200 crores.

• The minimum paid-up equity capital to set up a small finance bank should be 200 crores, as proposed by RBI as of May 2020.

Key Points

• Primary (Urban) Co-operative Banks (UCBs), which are desirous of voluntarily converting into small finance banks, may refer to the Scheme on the voluntary transition of Urban Co-operative Bank into a Small Finance Bank.

• UCBs applying for transiting to small finance banks or obtaining in-principle approval for such transition (under the above-referred scheme), will be required to ensure compliance with these 'on tap' licensing guidelines from the date of commencement of business as small finance bank except the guideline on minimum capital.

• The minimum net worth of such small finance banks shall be Rs.100 crore from the date of commencement of business.

• However, they will have to increase their minimum net worth to Rs.200 crore within five years from the date of commencement of business.

Additional Information

• Small Finance Banks are one of the niche banks in India.

• Banks with a small finance bank license can provide basic banking services for the acceptance of deposits and loans.

• The objective behind these is to provide financial inclusion to those sections of the economy which are not being served by other banks, such as small business units, small and marginal farmers, micro and small scale industries and institutions in the unorganized sector.

Q98. Answer: (c) Alt + I + R

The correct answer is Alt + I + R.

• Keyboard shortcut to insert a row in Excel:

• Shift + Spacebar to select the row.

• Alt + I + R to add a new row above.

Additional Information

Microsoft Excel Shortcut Keys

Shortcut	Action
F1	Help
F2	Edit
F3	Paste Name
F4	Repeat the last action
F5	Goto
F6	Next Pane
F7	Spell check
F8	Extend mode
F9	Recalculate all workbooks
F10	Activate Menubar
F11	New Chart
F12	Save As
Alt+F1	Insert Chart

Alt+F2	Save As
Alt+F4	Exit
Alt+F8	Macro dialogue box
Alt+F11	Visual Basic Editor

Q99. Answer: (c) Siddhartha Mukherjee

The correct answer is Siddhartha Mukherjee.

• Indian American Pulitzer Prize-winning physician author, Siddhartha Mukherjee and Harvard economist Raj Chetty, among 38 US citizens in Carnegie Corporation of New York's 2020 list of 'great immigrants' for their role in combating the COVID-19 pandemic.

Additional Information

• Siddhartha Mukherjee has been honoured for using "his communication skills to educate the public and create awareness about COVID-19 through forums and his widely read essays".

• He won the Pulitzer Prize in 2011 for his book 'The Emperor of All Maladies: A Biography of Cancer'.

• He received Padma Shri in 2014.

Q100. Answer: (a) RS Bisht

The correct answer is RS Bisht.

Confusion Points

• The ancient site at Dholavira was first discovered by Jagat Pati Joshi in 1966-68, and excavated almost two decades later by a team led by R.S. Bisht in the 1990s.

Key Points

• Dholavira was discovered in 1968 by the archaeologist Jagatpati Joshi.

• Excavations of the site between 1990 and 2005 under the supervision of archaeologist R S Bisht revealed the ancient city, which was a commercial and manufacturing centre for about 1,500 years before its collapse and eventual ruin in 1500 BC.

• Dholavira is one of the two most notable excavations of the Indus Valley Civilization or Harappan culture, dating back to 4500 years ago.

• While the second site, Lothal, is more elaborately educated and easier to access, a visit to Lothal only complements rather than replaces a visit to Dholavira.

Important Points

• UNESCO has included Dholavira of Kutch in the list of World Heritage Sites in 2021.

Additional Information

Major Sites of Indus Valley Civilization

Year	Site	Location	Excavated by
1921	Harappa	Sahiwal District, Punjab	Daya Ram Sahni
1922	Mohenjo-Daro	Larkana District Of Sind on the bank of Indus	R. D Banerjee
1953	Kalibangan	Rajasthan	Amlanand Ghose
1953	Lothal	Gujarat	R. Rao
1964	Surkotada	Gujarat	J P Joshi
1974	Banawali	Haryana	R S Bisht
1985	Dholavira	Gujarat	R S Bisht

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