SSC CHSL 2020 Official Paper 3 (Held On: 12 April 2021 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 INCORRECTLY spelt word.

(a) Cloistered
(b) Maligned
(c) Donations
(d) Creativety

Q2. Select the option that expresses the given sentence in reported speech.

"Where did the children leave their record books?" the sports coach asked the class prefect.

(a) The sports coach asked the class prefect where the children are leaving their record books.
(b) The sports coach asked the class prefect where have the children left their record books.
(c) The sports coach asked the class prefect where the children leave their record books.
(d) The sports coach asked the class prefect where the children had left their record books.

Q3. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. The main activity of Palampur is farming and 80 families of the upper caste own the majority of land in Palampur.

B. Palampur village has around 450 families which belong to different castes and creeds.

C. The neighboring towns of the village are well connected and all-weather roads are also well connected.

D. There are other activities in Palampur like dairy, transport, small-scale manufacturing, etc. which also help run the economy in the village.

(a) ABDC
(b) BADC
(c) CDAB
(d) CABD

Q4. Select the INCORRECTLY spelt word.

(a) Procure
(b) Destractsion
(c) Kindle
(d) Provoke

Q5. Select the option that can be used as a one-word substitute for the given group of words.

Doing something awkwardly or in a clumsy manner

(a) Faltering
(b) Fumbling
(c) Hastening
(d) Stumbling

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

Bias

(a) Fairness
(b) Stage
(c) Prejudice
(d) Prestige

Q7. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

We will definitely win the match / this time because our team / has prepare well.

(a) this time because our team
(b) We will definitely win the match
(c) No error
(d) has prepare well

Q8. Select the most appropriate word to fill in the blank.

Have you checked if we have _____ information about the location?

(a) sufficient
(b) insufficient
(c) profuse
(d) inadequate

Q9. Select the option that expresses the given sentence in the active or passive voice.

The central team visited eight villages in the state to assess the damage to the crops.

(a) Eight villages in the state were visited by the central team to assess the damage to the crops.
(b) Eight villages had visited the central team to assess the damage to the crops.
(c) The central team assessed the damage to the crops in eight villages in the state.
(d) The damage to the crops was assessed in eight villages in the state by the central team.

Q10. Select the most appropriate meaning of the idiomatic expression given.

Caught red-handed

(a) Caught by someone wearing a red wristband
(b) Caught stealing red objects like apples and tomatoes
(c) Caught with a hand covered in blood
(d) Caught in the act of doing something illegal

Q11. 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 required'.

I cannot understand that you are trying to say.

(a) who you
(b) what you
(c) which you
(d) No substitution required

Q12. Select the most appropriate synonym of the given word.

Random

(a) Definite
(b) Arbitrary
(c) Reasonable
(d) Planned

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Q13. 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 required'.

Seldom do we find so many birds nesting during this season.

(a) No substitution required
(b) Seldom does we find
(c) Seldom we do find
(d) Seldom did we found

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

Fritter

(a) Hoard
(b) Spoil
(c) Spread
(d) Waste

Q15. Select the most appropriate word to fill in the blank.

This training programme for students will help the _____ understand the different methods of communication.

(a) participants
(b) critics
(c) organizers
(d) trainers

Q16. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The project is / tough and I / can't be able to / complete it by Monday.

(a) tough and I
(b) complete it by Monday
(c) The project is
(d) can't be able to

Q17. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. Understanding a printed text comes from the interaction between printed words and one's prior knowledge of the world.

B. Comprehension is the ability or process of understanding something that is spoken or written.

C. Listening comprehension, however, involves multiple processes in understanding and making sense of spoken language.

D. In active reading, readers think about their reading and make connections and inferences.

(a) ADBC
(b) BADC
(c) BDCA
(d) DACB

Q18. Select the option that can be used as a one-word substitute for the given group of words.

Someone who studies elections and voting statistics

(a) Analyst
(b) Psychologist
(c) Mathematician
(d) Psephologist

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

Bolster

(a) Strengthen
(b) Embolden
(c) Weaken

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(d) Discourage

Q20. Select the most appropriate meaning of the given idiom.

To be all ears

(a) To have extra-large ears
(b) To be impatient about something
(c) To be inquisitive and curious
(d) To be ready and eager to listen

Directions

Direction: In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

In the 19th century, there was an industrial revolution in Europe. As a result, millions of people left the (1) _____ and went to work in big factories in cities. Today, it is the reverse. In several major cities, people have started moving out. Why? They want a cleaner, (2) ___ environment. There are fewer jobs in 'heavy' industries like steel and power generation. (3) ___, there are more jobs in service industries like banking, tourism, and food delivery. Besides, modern transport and communications have made it easier for people to (4) ___ to work or even work from home. The result of this revolution in the 21st century will be 'spread cities' - cities are growing fast, but (5) _____, away from city centres and people are choosing to live 40, 50 or 60 kilometres away.

Q21. Select the most appropriate option to fill in blank number 1.

(a) countries
(b) countryside
(c) factories
(d) cities

Q22. Select the most appropriate option to fill in blank number 2.

(a) greener
(b) brighter
(c) darker
(d) worse

Q23. Select the most appropriate option to fill in blank number 3.

(a) Of course
(b) Instead
(c) Nevertheless
(d) Clearly

Q24. Select the most appropriate option to fill in blank number 4.

(a) communicate
(b) compute
(c) calculate
(d) commute

Q25. Select the most appropriate option to fill in blank number 5.

(a) inwards
(b) downwards
(c) outwards
(d) upwards

GENERAL INTELLIGENCE

Q26. Three friends Aman, Ishan and Aneesh have 12, 16, and 3 apples, respectively. If Aman gives twice the number of apples that Aneesh has to Ishan and 4 apples to Aneesh, then how many apples are left with Aman?

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

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(d) 4

Q27. Select the option that is related to the third word in the same way as the second word is related to the first word.

Googley : Cricket :: Gambit : ?

(a) Cycling
(b) Basketball
(c) Football
(d) Chess

Q28. 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 insects are animals.

Some animals are frogs.

All frogs are cats.

Conclusions:

I. Some cats are frogs.

II. Some frogs are animals.

III. Some animals are insects.

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

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

_ S _ E _ S Z _ F S _ E

(a) Z F S E Z
(b) F S E Z F
(c) F E S Z E
(d) F Z F E Z

Q30. In a certain code language, NAMELY is coded as 74 and MANAGE is coded as 45. How will MUSHER be coded in that language?

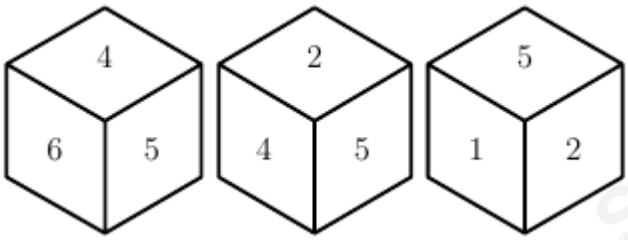
(a) 68
(b) 72
(c) 80
(d) 88

Q31. Four numbers have been given in the options, out of which three are alike in some manner and one is different. Select the number that is different.

(a) 1948
(b) 2116
(c) 1936
(d) 2704

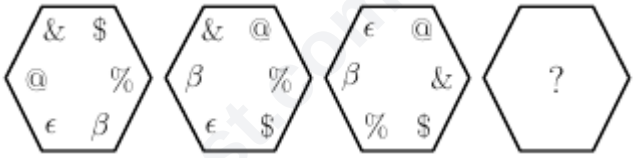
Q32. Three different positions of the same dice are shown. Select the number that will be on the face opposite to the face having the number 1.

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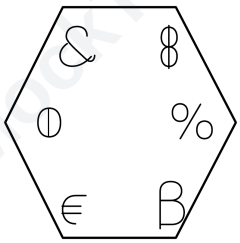


(a) 3
(b) 6
(c) 4
(d) 2

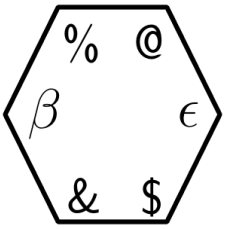
Q33. Select the figure from among the given options that can replace the question mark (?) in the following series.



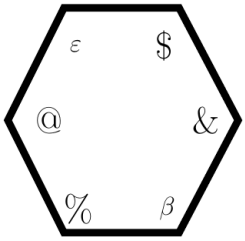
(a)



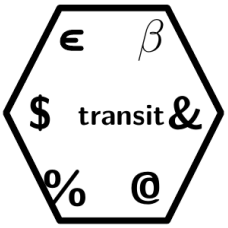
(b)



(c)



(d)



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Q34. Which two numbers should be interchanged to make the given equation correct?

25 × 7 + 20 - 40 ÷ 4 = 210

(a) 20 and 40
(b) 40 and 25
(c) 20 and 7
(d) 25 and 20

Q35. 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) Cardiology
(b) Mycology
(c) Dermatology
(d) Nephrology

Q36. Select the option in which the numbers are related in the same way as are the numbers of the following set.

(4, 25, 105)

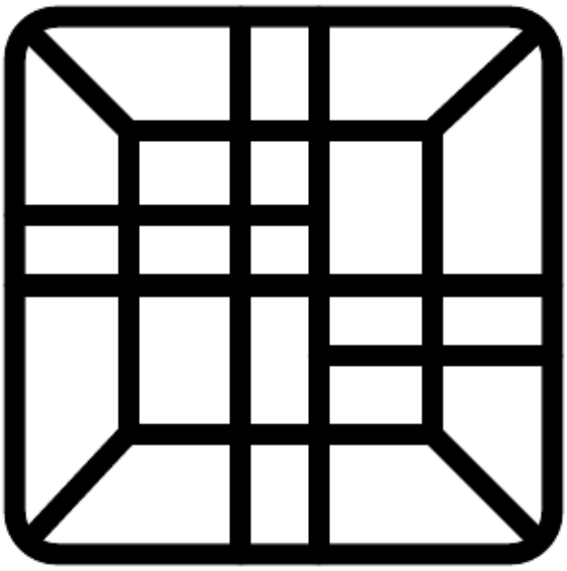
(a) (26, 52, 275)
(b) (12, 22, 87)
(c) (34, 52, 166)
(d) (14, 50, 180)

Q37. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

93 : 87

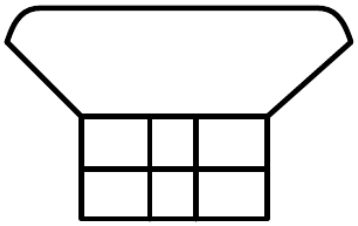
(a) 96 : 92
(b) 49 : 53
(c) 58 : 55
(d) 64 : 61

Q38. Select the option that is embedded in the given figure (rotation is NOT allowed).

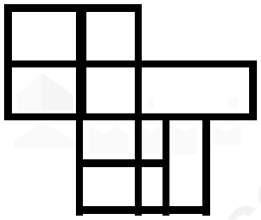


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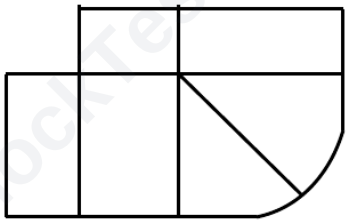
(a)



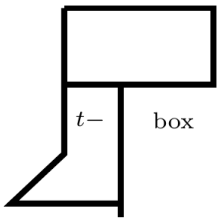
(b)



(c)



(d)



Q39. Four letter-clusters have been given in the options, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

(a) FKOR
(b) RWAD
(c) LQUX
(d) JNRV

Q40. Select the option that is related to the third term in the same way as the second term is related to the first term.

TAMPO : SCJTJ :: FIFTY : ?

(a) EKCXT
(b) EKDXU
(c) ELBXT
(d) EKCYS

Q41. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



(a)



(b)



(c)



(d)



Q42. Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.

1. Armlet
2. Belt
3. Ascot
4. Socks
5. Turban

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

Q43. In a certain code language, 'PENCIL' is written as 'CEILNP' and 'FROST' is written as 'FORST'. How will 'DUSTBIN' be written in that language?

(a) BDINSUT
(b) BDNISTU
(c) DIBNSTU
(d) BDINSTU

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

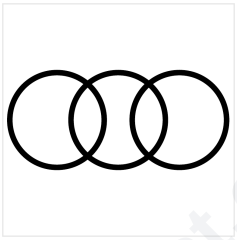
173 : 125 : 85

(a) 259 : 199 : 147
(b) 293 : 228 : 171
(c) 285 : 221 : 135
(d) 365 : 293 : 229

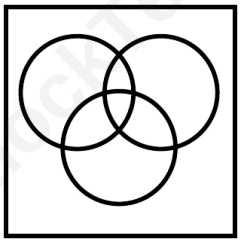
Q45. Select the Venn diagram that best represents the relationship between the following classes.

Flowers, White, Cloths

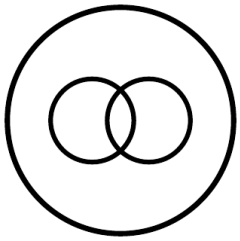
(a)



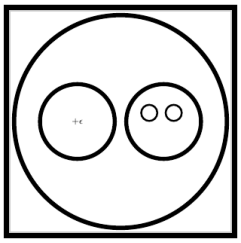
(b)



(c)



(d)

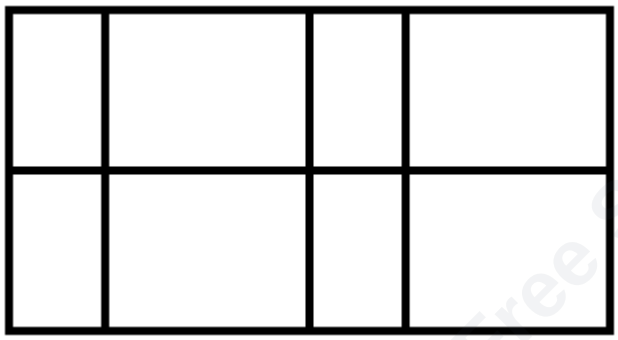


Q46. Manyak is the son of Aravind. Manyak and Kashyap are brothers. Durga is the mother of Kashyap. Sanhit is the brother of Aravind. Hruday is the son of Sanhit. How is Hruday related to Kashyap?

(a) Son-in-law
(b) Uncle
(c) Son
(d) Cousin

Q47. How many rectangles are there in the given figure?

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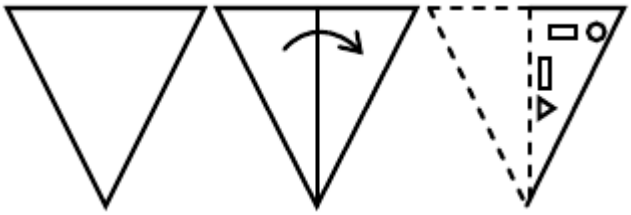


(a) 29
(b) 27
(c) 30
(d) 33

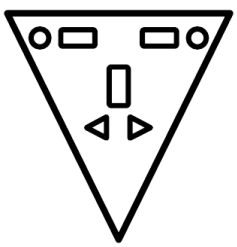
Q48. Select the option in which the words share the same relationship as that shared by the given pair of words.
Papaya : Vitamin C
(a) Guava : Vitamin A
(b) Gooseberry : Vitamin C
(c) Apple : Vitamin D
(d) Carrot : Vitamin B

Q49. Select the number from among the given options that can replace the question mark (?) in the following series.
56, 56, 54, 162, 158, ?
(a) 790
(b) 830
(c) 456
(d) 268

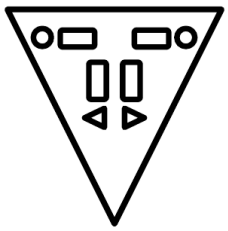
Q50. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figure. How would this paper look when unfolded?



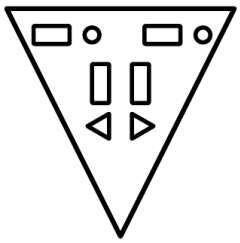
(a)



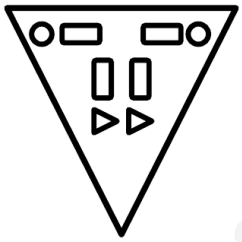
(b)



(c)



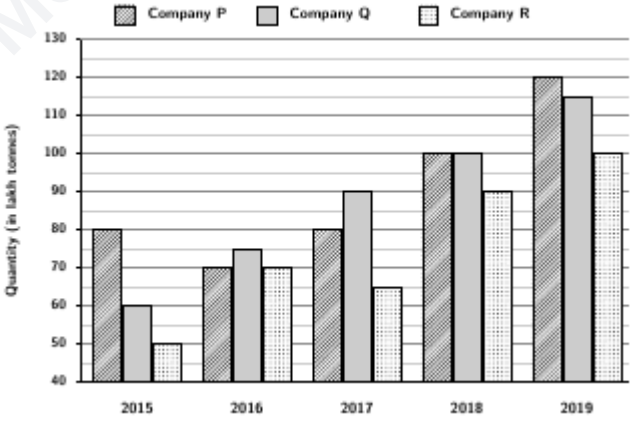
(d)



QUANTITATIVE APTITUDE

Q51. The given bar graph indicates the production of sugar (in lakh tonnes) by three different sugar companies P, Q and R from the year 2015 to 2019. Study the bar graph and answer the question that follows.

Production of sugar by companies P, Q and R from 2015 to 2019



The percentage increase in the production of sugar by company P in 2019 as compared to 2015 is:

(a) 45%
(b) 50%
(c) 40%
(d) 60%

Q52. 2 cos θ + sec θ - 2√2 = 0, where θ is an acute angle. Find the value of θ.

(a) 45°
(b) 30°
(c) 60°
(d) 15°

Q53. If x^4+1/(x^4)=6887, then the positive value of x-1/x is:

(a) 15
(b) 8
(c) 9
(d) 12

Q54. A truck covers a distance of 480 km at a certain speed. If the speed is decreased by 8 km/h, it would have taken 2 hours more to cover the same distance. 50% of its original speed (in km/h) is:

(a) 40
(b) 48
(c) 24
(d) 20

Q55. Three numbers are in the ratio 1/4 : 5/9 : 7/12. The difference between the greatest and the smallest number is 180. Find the sum of all the three numbers.

(a) 500
(b) 650
(c) 750
(d) 800

Q56. Working together, A, B and C can finish a piece of work in 3 hours. A finishes the same work in 8 hours and B finishes it in 6 hours. How long will it take for C alone to finish the same work?

(a) 15 hours
(b) 12 hours
(c) 24 hours
(d) 18 hours

Q57. The marked price of an article is Rs.1,280. If a shopkeeper sold the article at 12% profit after giving 30% discount, then the cost price of the article is:

(a) Rs.850
(b) Rs.700
(c) Rs.600
(d) Rs.800

Q58. If a nine-digit number 1263487xy is divisible by both 8 and 5, then the greatest possible values of x and y, respectively, are:

(a) 2 and 0
(b) 6 and 0
(c) 2 and 5
(d) 6 and 5

Q59. In ΔABC, if angle B = 90°, AB = 21 cm and BC = 20 cm, then (1 + sinA - cosA)/(1 + sinA + cosA) is equal to:

(a) -2/5
(b) 3/5
(c) 2/5
(d) -3/5

Q60. If secθ = 65/63 and θ is an acute angle, then the value of 8(cosecθ - cotθ) is:

(a) 4
(b) 1
(c) 8
(d) 2

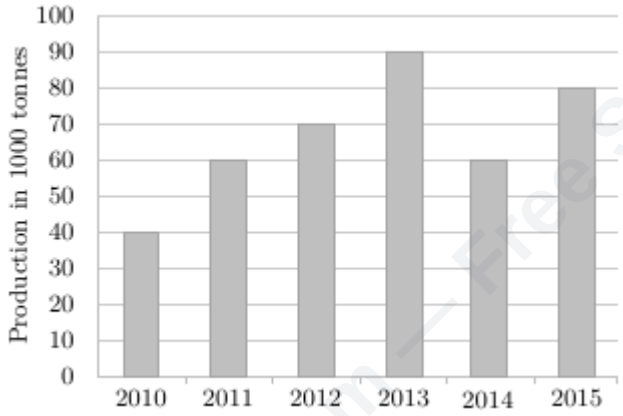
Q61. ΔPQR is an isosceles triangle with PQ = PR = 25 cm. If PS is the median on QR from P such that PS = 7 cm, then the length of QR is:

(a) 42 cm
(b) 48 cm
(c) 45 cm
(d) 38 cm

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Q62. Study the given bar chart and answer the question that follows.

The bar chart shows the production of medicines by a company (in 1000 tonnes) over six years 2010 to 2015.



If in each of the following years, the percentage increase in production as compared to the previous year is taken, then the ratio for increase production of the year 2011 to increase production of year 2015 is:

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

Q63. If x - y - z = 0, then the value of $(x^2 + y^2 + z^2) \div (y^2 + xz)$ is:

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

Q64. The average monthly expenditure of a family was Rs.18,600 during the first three months, Rs.21,750 during the next four months, and Rs.22,840 during the last five months of a year. If the total savings during the year was Rs.1,43,020, then the average monthly income (in Rs.) of the family was:

(a) 33,335
(b) 34,115
(c) 32,225
(d) 35,333

Q65. The simple interest on a certain sum for 3 years at 12% p.a. is Rs.6,750. What is the compound interest (in Rs.) on the same sum for 2 years at 20% p.a., if interest is compounded half-yearly? (rounded off to the nearest Rs.)

(a) 7,729
(b) 8,702
(c) 8,000
(d) 6,750

Q66. The value of 74/13÷5/26 of (43/5+72/5) + (71/6-21/3) is:

(a) 8
(b) 6
(c) 5
(d) 4

Q67. The sum of the radius of the base and the height of a closed solid cylinder is 12.5 cm. If the total surface area of the cylinder is 275 cm^2, then its radius is: (Take $\pi = 22/7$)

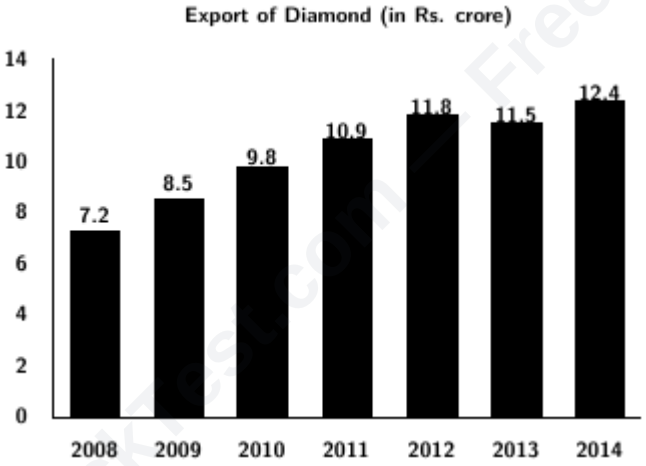
(a) 7 cm
(b) 3 cm
(c) 5 cm
(d) 3.5 cm

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Q68. Raghav spends 80% of his income. If his income increases by 12% and his expenditure increases by 17.5%, then what is the percentage decrease in his savings?

(a) 8%
(b) 10%
(c) 12%
(d) 15%

Q69. Study the following bar graph and answer the question that follows.



In how many years was the export more than the average for the given period?

(a) 3
(b) 5
(c) 6
(d) 4

Q70. Two circles touch internally. Their diameters are, respectively, 8 cm and 4 cm. What is the distance (in cm) between their centres?

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

Q71. If a and b are the lengths of two sides of a triangle such that the product ab = 24, where a and b are integers, then how many such triangles are possible?

(a) 16
(b) 15
(c) 18
(d) 12

Q72. Let O be the centre of a circle. PA and PB are tangents to the circle from a point P outside the circle and A and B are points on the circle. If angle APB = 50°, then angle OAB is equal to:

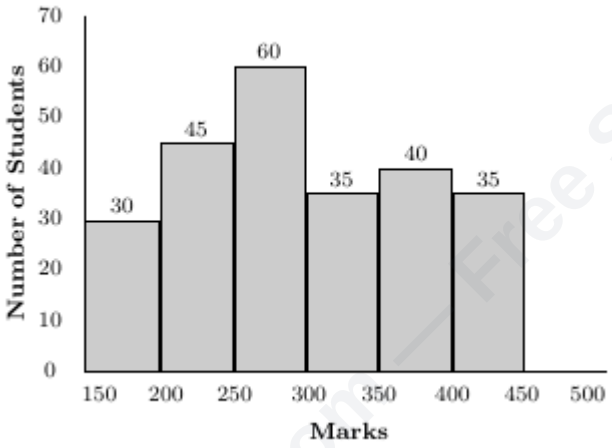
(a) 25°
(b) 40°
(c) 50°
(d) 20°

Q73. If $x^2 - 3x + 1 = 0$, then the value of $2(x^8+1/(x^8)) - 5(x^2+1/(x^2))$ is:

(a) 4379
(b) 3479
(c) 4370
(d) 4279

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Q74. Study the histogram that shows the marks obtained by students in an examination and answer the question that follows.



By what percentage is the number of students who obtained marks between 200 and 300 more than the number of students who obtained 350 or more marks?

(a) 55%
(b) 25%
(c) 30%
(d) 40%

Q75. The profit earned after selling an article for Rs.8,579 is the same as the loss incurred after selling the article for Rs.6,341. The profit percentage is:

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

GENERAL AWARENESS

Q76. When was the Federation of Indian Chambers of Commerce and Industry (FICCI) established in India?

(a) 1948
(b) 1952
(c) 1939
(d) 1927

Q77. Leprosy is caused by a bacterium called:

(a) Mycobacterium tuberculosis
(b) Mycobacterium leprae
(c) Haemophilus pertussis
(d) Neisseria gonorrhoeae

Q78. _____ was the first person who discovered cells.

(a) Alexander Fleming
(b) Francis Crick
(c) Robert Hooke
(d) Ernest Rutherford

Q79. Which is the largest of the following Duns with an approximate length of 35-45 km and a width of 22-25 km?

(a) Harike Dun
(b) Dehra Dun
(c) Nalagarh Dun
(d) Kota Dun

Q80. _____ was the Mughal emperor during the revolt of 1857.

(a) Shah Alam II
(b) Bahadur Shah I
(c) Akbar II
(d) Bahadur Shah II

Q81. In 1959, the Central Government of India undertook the governance in Kerala under _____ of the Constitution of India.

(a) Article 352
(b) Article 360
(c) Article 349
(d) Article 356

Q82. Which was the first Indian institution to receive the United Nations Population Award for 2020?

(a) Childline India
(b) Kutumb Foundation
(c) HelpAge India
(d) Child Rights and You

Q83. Sardar Sarovar Dam is situated in the state of _____ and on the river _____.

(a) Maharashtra, Krishna
(b) Uttar Pradesh, Ganga
(c) Gujarat, Narmada
(d) Rajasthan, Chambal

Q84. Manitombi Singh was a _____ player from Manipur.

(a) Volleyball
(b) Hockey
(c) Cricket
(d) Football

Q85. Who among the following persons secured the fourth position in the Dhaka Marathon 2021?

(a) Angela Jim Asunde
(b) Dutee Chand
(c) Pushpa Bhandari
(d) Jigmet Dolma

Q86. Which of the following formulas related to monetary and liquidity aggregates is NOT correct?

(a) M4 = M3 + Total deposits with post office savings organisations (excluding national savings certificates)
(b) M3 = M1 + Net time deposits of post office savings
(c) M2 = M1 + Savings deposits with post office savings banks
(d) M1 = Currency (notes + coins) + Demand deposits

Q87. How many monasteries and temples are there in Ellora caves?

(a) 33
(b) 31
(c) 32
(d) 34

Q88. A file with the _____ file extension is a Word Open XML Macro-Enabled Document file.

(a) .pdf
(b) .org
(c) .docx
(d) .docm

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Q89. Which of the following states leads in sunflower cultivation?

(a) Uttar Pradesh
(b) Karnataka
(c) Rajasthan
(d) Punjab

Q90. Which of the following organisations awards the Nobel Memorial Prize in Economic Sciences?

(a) The Royal Swedish Academy of Sciences
(b) Karolinska Institute
(c) Norwegian Nobel Committee
(d) Swedish Academy

Q91. Enzyme linked immuno-sorbent assay is a technique used in detection of which of the following diseases?

(a) Rheumatoid arthritis
(b) Kidney cancer
(c) Acquired immunodeficiency syndrome (AIDS)
(d) Malaria

Q92. Which of the following institutes got the first rank in the Atal Ranking of Institutions on Innovation Achievements (ARIIA) 2020 in the category of 'Institute of National Importance?

(a) Indian Institute of Technology Mumbai
(b) Indian Institute of Technology Kanpur
(c) Indian Institute of Technology Delhi
(d) Indian Institute of Technology Madras

Q93. What is the tenure of the chairman of the State Public Service Commission?

(a) 5 years or the age of 65 years, whichever is earlier
(b) 6 years or the age of 60 years, whichever is earlier
(c) 6 years or the age of 62 years, whichever is earlier
(d) 5 years or the age of 60 years, whichever is earlier

Q94. Which of the following state governments launched the 'Digital Seva Setu Programme' for rural areas in October 2020?

(a) Maharashtra
(b) Gujarat
(c) Uttar Pradesh
(d) Bihar

Q95. India's first 'Fire Park' was set up at _____ in January 2021.

(a) Hyderabad
(b) Bhopal
(c) Kolkata
(d) Bhubaneswar

Q96. Which of the following waterfalls is located in Jharkhand?

(a) Jog waterfalls
(b) Hundru waterfall
(c) Chulia waterfall
(d) Dudhsagar waterfall

Q97. Which of the following is the output device of a computer?

(a) Pen drive
(b) Joystick
(c) Scanner
(d) Plotter

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Q98. Phodong Monastery is located in _____.

(a) Madhya Pradesh
(b) Bihar
(c) Sikkim
(d) Ladakh

Q99. A large area of land demarcated as Damin-i-Koh in 1832 was declared as the land of the _____.

(a) Paharias
(b) Murias
(c) Warlis
(d) Santhals

Q100. In August 2020, who was promoted to ICC's international panel of umpires?

(a) KN Ananthapadmanabhan
(b) Sundaram Ravi
(c) Anil Chaudhary
(d) Kumar Dharmasena

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) Creativety

The solution is in Hindi. Read it online.

Q2. Answer: (d) The sports coach asked the class prefect where the children had left their record books.

The solution is in Hindi. Read it online.

Q3. Answer: (b) BADC

The solution is in Hindi. Read it online.

Q4. Answer: (b) Destractsion

The solution is in Hindi. Read it online.

Q5. Answer: (b) Fumbling

The solution is in Hindi. Read it online.

Q6. Answer: (a) Fairness

The solution is in Hindi. Read it online.

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Q7. Answer: (d) has prepare well

The solution is in Hindi. Read it online.

Q8. Answer: (a) sufficient

The solution is in Hindi. Read it online.

Q9. Answer: (a) Eight villages in the state were visited by the central team to assess the damage to the crops.

The solution is in Hindi. Read it online.

Q10. Answer: (d) Caught in the act of doing something illegal

The solution is in Hindi. Read it online.

Q11. Answer: (b) what you

The solution is in Hindi. Read it online.

Q12. Answer: (b) Arbitrary

The solution is in Hindi. Read it online.

Q13. Answer: (a) No substitution required

The solution is in Hindi. Read it online.

Q14. Answer: (a) Hoard

The solution is in Hindi. Read it online.

Q15. Answer: (a) participants

The solution is in Hindi. Read it online.

Q16. Answer: (d) can't be able to

The solution is in Hindi. Read it online.

Q17. Answer: (b) BADC

The solution is in Hindi. Read it online.

Q18. Answer: (d) Psephologist

The solution is in Hindi. Read it online.

Q19. Answer: (a) Strengthen

The solution is in Hindi. Read it online.

Q20. Answer: (d) To be ready and eager to listen

The solution is in Hindi. Read it online.

Q21. Answer: (b) countryside

The solution is in Hindi. Read it online.

Q22. Answer: (a) greener

The solution is in Hindi. Read it online.

Q23. Answer: (b) Instead

The solution is in Hindi. Read it online.

Q24. Answer: (d) commute

The solution is in Hindi. Read it online.

Q25. Answer: (c) outwards

The solution is in Hindi. Read it online.

Q26. Answer: (c) 2

Three friends Aman, Ishan and Aneesh have 12, 16, and 3 apples, respectively.

If Aman gives twice the number of apples that Aneesh has to Ishan.

Aneesh has 3 apples and 2 × 3 = 6.

So, Aman gives 6 apples to Ishan.

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Therefore, Aman has 6 apples with him now and Ishan has 22 apples with him now.

And Aman gives 4 apples to Aneesh

Again, number of apples left with Aman = 6 – 4 = 2

And, number of apples Aneesh has = 3 + 4 = 7

Therefore, Aman is left with 2 apples.

Hence, '2' is the correct answer.

Q27. Answer: (d) Chess

The logic is:

Googley : Cricket → In the game of cricket, a googly refers to a type of delivery bowled by a right-arm leg spin bowler.

Similarly,

Gambit : ? → In Chess, gambit is an opening move in which a player makes a sacrifice, typically of a pawn, for the sake of a compensating advantage.

Hence, 'Chess' is the correct answer.

Q28. Answer: (a) All conclusions follow

The least possible Venn diagram is:

Conclusions:

I. Some cats are frogs. → True (As, all frogs are cats → some cats are frogs)

II. Some frogs are animals. → True (As, some animals are frogs → some frogs are animals)

III. Some animals are insects. → True (As, some insects are animals → some animals are insects)

Hence, all conclusions follow.

Q29. Answer: (d) F Z F E Z

Given series: _ S _ E _ S Z _ F S _ E

By checking options and substituting accordingly.

1. Z F S E Z → Z S F E - S S Z E - F S Z E

2. F S E Z F → F S S E - E S Z Z - F S F E

3. F E S Z E → F S E E - S S Z Z - F S E E

4. F Z F E Z → F S Z E - F S Z E - F S Z E.

► Option (4) gives a pattern of F S Z E - F S Z E - F S Z E.

Hence, 'F Z F E Z' is the correct answer.

Q30. Answer: (d) 88

The pattern followed here is:

According to the alphabetical positions of the letters,

Sum of the positional values of the letters + 4

NAMELY → N (14) + A (1) + M (13) + E (5) + L (12) + Y (25) + 4 = 14 + 1 + 13 + 5 + 12 + 25 + 4 = 74

MANAGE → M (13) + A (1) + N (14) + A (1) + G (7) + E (5) + 4 = 13 + 1 + 14 + 1 + 7 + 5 + 4 = 45

Similarly,

MUSHER → M (13) + U (21) + S (19) + H (8) + E (5) + R (18) + 4 = 13 + 21 + 19 + 8 + 5 + 18 + 4 = 88

Hence, '88' is the correct answer.

Q31. Answer: (a) 1948

The logic is as follows:

1948 - This is not a perfect square.

2116 - 2116 is the perfect square of 46.

1936 - 1936 is the perfect square of 44.

2704 - 2704 is the perfect square of 52.

Hence, 1948 is the odd one out.

Q32. Answer: (c) 4

In 2nd and 3rd dice, '2' and '5' are the common face on both the dice, so the remaining faces is opposite to each other, i.e., 4 is opposite to 1.

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So, '4' will be the number that will be on the face opposite to the face having the number 1.

Hence, '4' is the correct answer.

Q33. Answer: (d) [figure]

The figure from among the given options that can replace the question mark (?) in the following series is shown below:

Hence, 'option 4' is the correct answer.

Q34. Answer: (a) 20 and 40

1. 20 and 40

Given equation: 25 × 7 + 20 - 40 ÷ 4 = 210

After interchanging the numbers according to the given option, we get:

L.H.S = 25 × 7 + 40 - 20 ÷ 4

= 175 + 40 – 5

= 215 – 5

= 210 = R.H.S

2. 40 and 25

Given equation: 25 × 7 + 20 - 40 ÷ 4 = 210

After interchanging the numbers according to the given option, we get:

L.H.S = 40 × 7 + 20 - 25 ÷ 4

= 280 + 20 – 6.25

= 300 – 6.25

= 293.75 ≠ R.H.S

3. 20 and 7

Given equation: 25 × 7 + 20 - 40 ÷ 4 = 210

After interchanging the numbers according to the given option, we get:

L.H.S = 25 × 20 + 7 - 40 ÷ 4

= 500 + 7 – 10

= 507 – 10

= 497 ≠ R.H.S

4. 25 and 20

Given equation: 25 × 7 + 20 - 40 ÷ 4 = 210

After interchanging the numbers according to the given option, we get:

L.H.S = 20 × 7 + 25 - 40 ÷ 4

= 140 + 25 – 10

= 165 – 10

= 155 ≠ R.H.S

Hence, '20 and 40' is the correct answer.

Q35. Answer: (b) Mycology

The description is as follows:

Option	Description	
1.	Cardiology	Cardiology is the study and treatment of disorders of the heart and the blood vessels.
2.	Mycology	Mycology, the study of fungi, a group that includes the mushrooms and yeasts.
3.	Dermatology	Dermatology is the branch of medicine dealing with the skin. It is a speciality with both medical and surgical aspects.

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4.	Nephrology	Nephrology is a specialty of adult internal medicine and pediatric medicine that concerns the study of the kidneys, specifically normal kidney function and kidney disease, the preservation of kidney health, and the treatment of kidney disease, from diet and medication to renal replacement therapy.

Clearly, all options except 'Mycology' deals with the study of treatment of Human Beings, while 'Mycology' is the study of fungi.
Hence, ‘Mycology’ is the odd one out.

Q36. Answer: (d) (14, 50, 180)

The logic is:
(4, 25, 105) → (25 - 4) × 5 = 21 × 5 = 105
Similarly,
(14, 50, 180) → (50 - 14) × 5 = 36 × 5 = 180
Hence, ‘(14, 50, 180)’ is the correct answer.

Q37. Answer: (c) 58 : 55

The logic is:
93 : 87 → 93 - |9 - 3| = 93 - 6 = 87
Similarly,
58 : 55 → 58 - |5 - 8| = 58 - 3 = 55
Hence, ‘58 : 55’ is the correct answer.

Q38. Answer: (d) [figure]

The option that is embedded in the given figure when rotation is NOT allowed is shown below:
Hence, ‘option 4’ is the correct answer.

Q39. Answer: (d) JNRV

The pattern followed here is:
According to the alphabetical positions of the letters,
1. FKOR → F + 5 = K; K + 4 = O; O + 3 = R
2. RWAD → R + 5 = W; W + 4 = A; A + 3 = D
3. LQUX → L + 5 = Q; Q + 4 = U; U + 3 = X
4. JNRV → J + 4 = N; N + 4 = R; R + 4 = V
Hence, ‘JNRV’ is the odd one out.

Q40. Answer: (a) EKCXT

The pattern followed here is:
According to the alphabetical positions of the letters,
Similarly,
Hence, ‘EKCXT’ is the correct answer.

Q41. Answer: (a) [figure]

The correct mirror image of the given combination when the mirror is placed at MN is shown below:
Hence, ‘option 1’ is the correct answer.

Q42. Answer: (a) 5 - 3 - 1 - 2 - 4

The correct option that indicates the arrangement of the given words in a logical and meaningful order is:
5. Turban
3. Ascot
1. Armlet
2. Belt
4. Socks

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Order of wearables from head to toe. Turban is worn on the head, Ascot is worn around the neck, armlet is worn on the hand, a belt is tied around waist, and socks are worn in toe.

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

Q43. Answer: (d) BDINSTU

The pattern followed here is:

According to the alphabetical positions of the letters,

Letters are arranged in the order they appear in the English alphabetical series.

Similarly,

Hence, 'BDINSTU' is the correct answer.

Q44. Answer: (d) 365 : 293 : 229

The logic is:

• 173 : 125 : 85 = $13^2 + 4 : 11^2 + 4 : 9^2 + 4$

Similarly,

• 365 : 293 : 229 = $19^2 + 4 : 17^2 + 4 : 15^2 + 4$

Hence, '365 : 293 : 229' is the correct answer.

Q45. Answer: (a) [figure]

The Venn diagram that best represents the relationship between Flowers, White, and Clothes is shown below:

Some flowers are white in color and some clothes are white in color.

Hence, 'option 1' is the correct answer.

Q46. Answer: (d) Cousin

By using the symbols in the table given below, we can draw the following family tree:

Clearly, Hruday is cousin of Kashyap.

Hence, 'cousin' is the correct answer.

Q47. Answer: (c) 30

The number of rectangles in the given figure is shown below:

Hence, '30' is the correct answer.

Q48. Answer: (b) Gooseberry : Vitamin C

The logic is:

Papaya : Vitamin C → Papaya is a rich source of Vitamin C.

Similarly,

Gooseberry : Vitamin C → Gooseberry is a rich source of Vitamin C.

Hence, 'Gooseberry : Vitamin C' is the correct answer.

Additional Information

Papaya is also a rich source of Vitamin A and vitamin E.

Q49. Answer: (a) 790

Given: 56, 56, 54, 162, 158, ?

Logic:

Hence, 790 is the correct answer.

Q50. Answer: (b) [figure]

The paper when unfolded, will appear as shown below:

Hence, 'option 2' is the correct answer.

Q51. Answer: (b) 50%

Given:

Production of company P in 2015 = 80 lakh tonnes

Production of company P in 2019 = 120 lakh tonnes

Calculation:

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Therefore The required percentage increase in 2019 = (120 - 80)/80 × 100
=> 40/80 × 100 = 50%

Q52. Answer: (a) 45°

Calculation:
2 cos θ + sec θ - 2√2 = 0
=> 2 cos θ + 1/ cos θ - 2√2 = 0
=> 2 cos² θ + 1 - 2√2 cos θ = 0
=> 2 cos2 θ - 2√2 cos θ + 1 = 0
=> 2 cos2 θ - √2 cos θ - √2 cos θ + 1 = 0
=> √2 cos θ (√2 cos θ - 1) - 1(√2 cos θ - 1) = 0
=> (√2 cos θ - 1)² = 0
=> √2 cos θ - 1 = 0
=> √2 cos θ = 1
=> cos θ = 1/√2
Therefore cos 45° = 1/√2
=> θ = 45°
Alternate Method By value putting:
θ = 45°
2 cos θ + sec θ - 2√2 = 0
=> 2 × 1/√2 + √2 - 2√2 = 0
=> 2√2 - 2√2 = 0
At values θ = 30°, 60° and 15°, the above condition is not fulfilled. Hence, 45° is the correct value of θ.

Q53. Answer: (c) 9

Given:
x^4+1/(x^4)=6887
Formula used:
If x² + 1/x² = a, then x - 1/x = √(a - 2)
Calculation:
x^4+1/(x^4)=6887
By adding 2 on both sides.
=> x^4 + 1/x4 + 2 = 6887 + 2
=> (x² + 1/x²)² = 6889
=>(x² + 1/x²) = √6889 = 83 = a
Now, x - 1/x = √(83 - 2) = 9
Therefore The required value = 9

Q54. Answer: (c) 24

Given:
Distance cover = 480 km
Formula used:
Speed = Distance/Time
Calculation:
Let the speed be = x km/h
According to the question:
480 km/(x - 8) - 480 km/x = 2 hours
=> 1/(x - 8) - 1/x = 2/480
=> x - x + 8/(x - 8)x = 1/240
=> 8 × 240 = x² - 8x
=> x² - 8x - 1920 =0
=> x² + 40x - 48x - 1920 = 0
=> x(x + 40) - 48(x + 40) = 0

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=> x ≠ - 40, x = 48

Therefore 50% of the original speed = 48 × 1/2 = 24 km/h

Alternate Method By hit and trial method:

Option 1: 480/(2× 24 - 8) - 480/2× 24 = 12 - 10 = 2 hours

Q55. Answer: (c) 750

Given:

The ratio of three numbers = 1/4 : 5/9 : 7/12

Calculation:

Let the numbers be = A, B & C

By taking the LCM of the denominators of the fractions.

LCM (4, 9, 12) = 36

=> 9/36 : 5×4/36 : 7×3/36

=> A : B : C = 9 : 20 : 21

Because C - A = 21 - 9 = 12 = 180

Therefore A + B + C = 9 + 20 + 21 = 50 = 180/12 × 50

=> 15 × 50 = 750

Q56. Answer: (c) 24 hours

Given:

No of days taken by A, B & C = 3 hours

No of days taken by A = 8 hours

No of days taken by B = 6 hours

Formula used:

Time = Total work/Efficiency

Calculation:

Let the total work be the LCM of 3, 8, and 6 = 24 units

No of hours Work Efficiency

A + B + C = 3 hours 8

A = 8 hours 24 units 3

B = 6 hours 4

=> C's efficiency = 8 - 3 - 4 = 1 unit per day

Therefore The required no of hours taken by C = 24/1 = 24 hours

Q57. Answer: (d) Rs.800

Given:

Marker Price (MP) = Rs.1280

Profit % = 12

Discount % = 30

Formulas used:

Discount % = Discount/MP × 100

Profit % = Profit/Cost Price × 100

Selling Price = Marked Price - Discount

Profit = Selling Price - Cost Price

Cost Price = (Selling price × 100)/(100 + profit)

Calculation:

Discount % = Discount/1280 × 100

=> 30 = Discount/1280 × 100

=> Discount = 128 × 3 = Rs.384

Selling Price = 1280 - 384 = Rs.896

Cost Price = (Selling price × 100)/(100 + profit)

=> (896 × 100)/(100 + 12)

Therefore CP = 89600/112 = Rs.800

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Alternate Method
Cost Price = MP × (100 - D)/100 × 100/(100 + P)
=> Rs.1280 × 70/100 × 100/112 = Rs.800

Q58. Answer: (b) 6 and 0

Shortcut Trick
Number must be divisible by 5, so y must be 0 or 5.
Since the number is also divisible by 8 (an even number), y must be 0.
For divisibility by 8, the last three digits 7x0 must be divisible by 8.
Checking values of x: 720 ÷ 8 = 90 and 760 ÷ 8 = 95. The greatest value is 6.
Therefore The correct answer is 6 and 0.
Alternate Method
Given: Number = 1263487xy, divisible by 5 and 8.
Divisibility Rules:
=> For 5: Last digit y in {0, 5}.
=> For 8: Last three digits 7xy must be divisible by 8.
Step 1: Determine y
=> If y = 5, the number 7x5 is odd. An odd number is never divisible by 8.
=> Therefore y = 0.
Step 2: Determine x
=> Last three digits are 7x0. Possible values for x are {0, 1, 2, ..., 9}.
=> 700 ÷ 8 = 87.5 (No)
=> 720 ÷ 8 = 90 (Yes, x = 2)
=> 760 ÷ 8 = 95 (Yes, x = 6)
=> Comparing 2 and 6, the greatest value is 6.
Therefore The correct answer is 6 and 0.
Additional Information
Divisibility by 8
A number is divisible by 8 if its last three digits are divisible by 8 or are 000.
Divisibility by 5
A number is divisible by 5 if its last digit is either 0 or 5.
Divisibility by 40
If a number is divisible by both 5 and 8 (co-prime factors), it is divisible by their product 40.

Q59. Answer: (c) 2/5

Given:
AB = 21 cm, BC = 20 cm and angle B = 90º
Formula used:
By Pythagoras theorem
$AC^2 = AB^2 + BC^2$
Calculation:
$AC^2 = 21^2 + 20^2 = 841$
=> AC = 29 cm
sin A = Perpendicular/Hyptotenuse = BC/AC
=> sin A = 20/29
cos A = Base/ Hypotenuse = AB/AC
=> cos A = 21/29
(1 + sinA - cosA)/(1 + sinA + cosA) = (1 + 20/29 - 21/29)/(1 + 20/29 + 21/29)
=> ((29 + 20 -21)/29)/((29 + 20 +21)/29)
=> 28/70 = 2/5
Therefore The required result = 2/5
Mistake PointsPlease note that, in the question, we have sin A & cos A, it means in Δ ABC, we take θ for angle A, and then BC &

AB will be perpendicular & base respectively.

Q60. Answer: (b) 1

Given:

secθ = 65/63 = Hypotenuse/Base

Formula used:

By Pythagoras theorem

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

Calculation:

$65^2 = P^2 + 63^2$

=> P = 16

8(cosecθ - cotθ) = 8(H/P - B/P)

=> 8(65/16 - 63/16) = 8 × 2/16 = 16/16

Therefore The result = 1

Q61. Answer: (b) 48 cm

Concept:

In an isosceles triangle, the median to the base is perpendicular to the base and bisect it into two equal parts.

Given:

PQ = PR = 25 cm, PS = 7 cm

Formula used:

Pythagoras Theorem

$Hypotenuse^2 = Base^2 + Perpendicular^2$

Calculation:

In triangle PSQ

$PQ^2 = PS^2 + QS^2$

$=>25^2 = 7^2 + QS^2$

=> QS = 24 cm

Because QS = 1/2 × QR

Therefore QR = 2 × 24 = 48 cm

Q62. Answer: (d) 3 : 2

Formula used:

Percentage Increase = (Production of current year - Production of previous year)/ Production of Previous year × 100

Calculation:

Percentage increase in the production of medicines of the year 2011 = (60 - 40)/40 × 100 = 20/40 × 100 = 50%

Percentage increase in the production of medicines of the year 2015 = (80 - 60)/60 × 100 = 20/60 × 100 = 100/3%

Therefore The required ratio = 50% : 100/3%

=> 1 : 2/3

=> 3 : 2

Q63. Answer: (a) 2

Given:

x - y - z = 0

Formula used:

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

Calculation:

x - y - z = 0

=> x - z = y

By squaring both sides

$=> (x - z)^2 = y^2$

$=> x^2 + z^2 - 2xz = y^2$

$=> x^2 + z^2 = y^2 + 2xz$

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By adding y^2 to both sides.
=> x2 + z2 + y2 = 2y2 + 2xz
=> (x2 + z2 + y2) ÷ (y2 + xz) = 2
Therefore The required result = 2

Q64. Answer: (a) 33,335

Given:
Average monthly expenditure for the first 3 months = Rs.18600
Average monthly expenditure for the next 4 months = Rs.21750
Average monthly expenditure for the last 5 months = Rs.22840
Total saving of the year = Rs.143020
Formula used:
Average = Sum of Observations/Total no of observations
Income = Savings + Expenditure
Calculation:
Total expenditure of 12 months = Rs.18600 × 3 + Rs.21750 × 4 + Rs.22840 × 5
=> Rs.55800 + Rs.87000 + Rs.114200 = Rs.257000
Income for the year = Rs.143020 + Rs.257000 = Rs.400020
Therefore The average monthly income = 400020/12 = Rs.33335

Q65. Answer: (b) 8,702

Given:
Simple interest for 3 years @ 12% p.a. = Rs.6750
Formulas used:
Simple Interest = Principal × time × rate/100
Amount = Principal × (1 + r/100)^t
Compound Interest = Amount - Principal
Calculation:
Rs.6750 = Principal × 3 × 12/100
=> Principal = 6750 × 100/ 3 × 12
=> Principal = Rs.18750
For CI compounded half-yearly:
Rate = 20%/2 = 10%
Time = 2 × 2 = 4 half years
Amount = 18750 × (1 + 10/100)^4
=> 18750 × (110/100)^4
=> 18750 × 11/10 × 11/10 × 11/10 × 11/10
=> Amount = Rs.27451.875 or 27452
Compound Interest = 27452 - 18750 = 8702
Therefore The required compound interest = Rs.8702

Q66. Answer: (a) 8

Follow BODMAS rule to solve this question, as per the order given below.
Calculation:
74/13÷5/26 of (43/5+72/5) + (71/6-21/3)
=> 95/13 ÷ 5/26 of (23/5 + 37/5) + (43/6 - 7/3)
=> 95/13 ÷ 5/26 of (60/5) + (29/6)
=> 95/13 ÷ 5/26 of 12 + 29/6
=> 95/13 × 13/30 + 29/6
=> 19/6 + 29/6
=> 48/6 = 8
Therefore 74/13÷5/26 of (43/5+72/5) + (71/6-21/3) = 8

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Q67. Answer: (d) 3.5 cm

Given:

Radius + Height = 12.5 cm

Total surface area of cylinder = 275 cm2

Formula used:

Total surface area of a closed cylinder = $2\pi RH + 2\pi R^2$

=> $2\pi R (H + R)$

Calculation:

=> $275 = 2 \times 22/7 \times R \times (12.5)$

=> $R = (275 \times 7 \times 10)/ 2 \times 22 \times 125$

=> R = 3.5

Therefore The radius of the cylinder is 3.5 cm.

Q68. Answer: (b) 10%

Shortcut Trick

Income = Expenditure + Savings (Ratio 80 : 20 → 4 : 1)

Apply Alligation or Weighted Average: % Change in Income = (E% × E_(ratio) + S% × S_(ratio)) ÷ (Total Ratio)

12 = (17.5 × 4 + x × 1) ÷ 5

60 = 70 + x => x = −10%

Negative sign indicates a decrease.

Therefore The correct answer is 10%.

Alternate Method

Given: Initial Income = 100, Expenditure = 80, Savings = 20.

Formula Used: Income = Expenditure + Savings

=> New Income = 100 + (12% of 100) = 112

=> New Expenditure = 80 + (17.5% of 80) = 80 + 14 = 94

=> New Savings = New Income − New Expenditure = 112 − 94 = 18

=> Decrease in Savings = Old Savings − New Savings = 20 − 18 = 2

=> Percentage Decrease = (Decrease ÷ Old Savings) × 100

=> Percentage Decrease = (2 ÷ 20) × 100 = 10%

Therefore The correct answer is 10%.

Additional Information

Income-Expenditure Relationship

Total Income is always the sum of Expenditure and Savings. Any change in one must be balanced by the others.

Percentage Change Formula

Percentage change = [(Final Value − Initial Value) ÷ Initial Value] × 100.

Weighted Average in Income

% Change in Income = (% Change in Exp × Exp Ratio + % Change in Sav × Sav Ratio) ÷ (Total Ratio).

Q69. Answer: (d) 4

Calculation:

Average Export diamonds for 7 years = Total export / Total no of years

=> (7.2 + 8.5 + 9.8 + 10.9 + 11.8 + 11.5 + 12.4)/7 = 72.1/7

=> 10.3 crores

In the given 4 years, the export is more than the average export:

=> 2011 = 10.9 crores

=> 2012 = 11.8 crores

=> 2013 = 11.5 crores

=> 2014 = 12.4 crores

Therefore The no of years where export is more than the average export is 4.

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Q70. Answer: (c) 2

Given:

D1= 8 cm, R1 = 4 cm

D2 = 4 cm, R2 = 2 cm

Calculation:

Distance between the centres = R1 - R2

=> 4 - 2

=> 2 cm

Therefore The required distance is 2 cm.

Q71. Answer: (a) 16

Concept:

The length of the third side of a triangle must always be between (but not equal to) the sum and the difference of the other two sides.

Let a, b and c are the sides of a triangle, where (a - b) < c < (a + b).

Given:

Product of two sides a and b = 24

Calculation:

It is given that ab = 24, we can have different possible values of a and b such that:

=> 1 × 24 :- (24 - 1) < c < (24 + 1), c = 24

=> 2 × 12 :- (12 - 2) < c < (12 + 2), c = 11, 12, 13

=> 3 × 8 :- (8 - 3) < c < (8 + 3), c = 6, 7, 8, 9, 10

=> 4 × 6 :- (6 - 4) < c < (6 + 4), c = 3, 4, 5, 6, 7, 8, 9

By studying the given conditions, the third side, c can take 16 different values.

Therefore The number of triangles possible for ab = 24 is 16.

Q72. Answer: (a) 25°

Concept:

The tangent at any point of a circle is perpendicular to the radius through the point of contact.

Here, OA is perpendicular to PA and OB is perpendicular to PB.

The sum of the angles of a quadrilateral is 360°.

Given:

Angle APB = 50°

Calculation:

In quadrilateral OAPB, angle O + angle A + angle P + angle B = 360°

=> angle O + 90° + 50° + 90° = 360°

=> angle O = 360° - 230° = 130°

In triangle OAB, OA = OB = radius

=> angle O + angle B + angle A = 180° (Angle sum property)

=> 130° + angle B + angle A = 180° (angle OAB = angle OBA)

=> angle A + angle B = 180° - 130° = 50°

Because Angles opposite to equal sides are equal.

=> angle A + angle A = 50°

=> angle A = 50°/2 = 25°

Therefore angle OAB = 25°

Q73. Answer: (a) 4379

Given:

x2 - 3x + 1 = 0

By dividing the above equation by x.

=> x + 1/x = 3

Formula used:

If x + 1/x = a,

then $x^2 + 1/x^2 = a^2 - 2$

Calculation:

$x^2 + 1/x^2$

=> $3^2 - 2$

=> 7

x^4 + 1/x^4

=> $7^2 - 2$

=> 47

x^8 + 1/x^8

=> $(47)^2 - 2$

=> 2207

$2(x^8+1/(x^8)) - 5(x^2+1/(x^2))$

=> $2 \times 2207 - 5 \times 7$

=> 4379

Therefore The required value is 4379.

Q74. Answer: (d) 40%

Given:

No of the students who obtained marks between 200 and 300

=> 45 + 60 = 105

No of students who obtained marks between 350 or more marks

=> 40 + 35 = 75

Calculation:

=> The required percent = (105 - 75)/75 × 100

=> 30/75 × 100

=> 40%

Therefore The answer is 40%.

Q75. Answer: (c) 15%

Given:

SP1 = Rs.8579

SP2 = Rs.6341

Formulas used:

Profit = Selling price - Cost price

Loss = Cost price - Selling price

Profit percent = Profit/Cost price × 100

Calculation:

Let the profit be = Rs.x

CP1 = CP2

=> Rs.8579 - x = x + Rs.6341

=> 8579 - 6341 = 2x

=> x = 2238/2

=> Profit = Rs.1119

=> Cost price = 8579 - 1119

=> Rs.7460

Profit percent = 1119/7460 × 100

=> 15%

Therefore The required profit percent = 15%

Shortcut Trick When profit or loss is equal:

Cost price = (SP1 + SP2)/2

=> (Rs.8579 + Rs.6341)/2 = Rs.7460

=> Loss = Rs.7460 - Rs.6341

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=> Rs.1119

Profit % = 1119/7460 × 100 = 15%

Q76. Answer: (d) 1927

The correct answer is 1927.

Key Points

• The Federation of Indian Chambers of Commerce and Industry (FICCI) is a non-profit trade organization and lobbying organization located in India.

• In 1927, Indian businessmen Mr. G D Birla and Purshottamdas Thakurdas launched the company on Mahatma Gandhi's recommendation.

• It is India's largest, most influential, and oldest commercial organization.

• It is a non-governmental, non-profit organization. Members of FICCI come from the private and public sectors, as well as SMEs and multinational enterprises.

• The chamber has around 250,000 indirect members through a variety of regional chambers of commerce.

• It focuses on firm development, advertising, and networking in a given industry.

Important Points

• It is based in New Delhi, India's capital, and operates in 12 states and eight countries worldwide.

• India's only national ATA Carnet issuing and assuring organization is the FICCI.

• ATA Carnets are used to carry temporary equipment across borders by TV/film crews, journalists, engineers, musicians, and industry.

Q77. Answer: (b) Mycobacterium leprae

The correct answer is Mycobacterium leprae.

Key Points

• Leprosy is a contagious disease that causes disfiguring skin sores and nerve damage in the arms, legs, and other regions of the body.

• It is caused by Mycobacterium leprae, a slow-growing pathogen (M. leprae).

• It is also known as Hansen's disease, after the man who discovered M. leprae in 1873. Leprosy is diagnosed based on the number and type of skin lesions you have.

• The type of leprosy determines the symptoms and treatment options. Mycobacterium leprae is a bacterium that causes leprosy, often known as "Hansen's disease," a chronic infectious disease that affects the skin, eyes, nose, and muscles and damages peripheral nerves.

Important Points

• Mycobacterium tuberculosis is the bacteria that causes tuberculosis.

• Bordetella pertussis is a Gram-negative, aerobic, pathogenic, encapsulated coccobacillus from the genus Bordetella that causes pertussis, also known as whooping cough.

• Neisseria gonorrhoeae is a bacterial pathogen that causes gonorrhea and other complications when an asymptomatic infection spreads throughout the genital tract or disseminates to other organs.

Q78. Answer: (c) Robert Hooke

The correct answer is Robert Hooke.

Key Points

• In 1665, a British scientist named Robert Hooke coined the term "cell" to describe these minuscule units of life.

• Hooke was one of the first scientists to use a microscope to study live organisms.

• Despite the fact that Hooke's microscopes were not very powerful at the time, he was nonetheless able to make a significant discovery.

• Cells were discovered in cork by Robert Hooke, and a microscope was used by Anton van Leeuwenhoek in Holland to make other major discoveries.

• Leeuwenhoek created his own microscope lenses, and he was so proficient at it that his microscope outperformed other microscopes of the time.

Important Points

• Robert Hooke was an English scientist and architect who was the first to visualize a microorganism using a microscope.

• Sir Alexander Fleming was a Scottish physician and microbiologist who is most known for developing penicillin, the world's first widely effective antibiotic.

• Francis Harry Compton Crick was a biophysicist, neurologist, and molecular biologist from the United Kingdom.

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• Ernest Rutherford was a British physicist born in New Zealand who became recognized as the "Father of Nuclear Physics."

Q79. Answer: (b) Dehra Dun

The correct answer is Dehra Dun.

Key Points

• Dehra Dun is the largest of all the duns, measuring 35-45 kilometers in length and 22-25 kilometers in width.

• The Bhotias are the majority of the people that live in the valleys of the Great Himalayan range.

• These are migratory people who travel to the 'Bugyals' (summer glasslands in the higher altitudes) in the summer and then return to the valleys in the winter.

• This region also contains the well-known "Valley of Flowers."

• This area also contains pilgrimage sites like Gangotri, Yamunotri, Kedarnath, Badrinath, and Hemkund Sahib.

Important Points

• Himachal and Uttarakhand Himalayas: This region is roughly located between the Ravi (a tributary of Ghaghara) in the west and the Kali (a tributary of Ghaghara) in the east.

• It is drained by two of India's largest river systems, the Indus and the Ganga.

• The 'Shiwalik' and 'Dun formations' are two physiographic features that identify this region.

Q80. Answer: (d) Bahadur Shah II

The correct answer is Bahadur Shah II.

Key Points

• Bahadur Shah Zafar II was India's twentieth and final Mughal Emperor.

• In addition, he was a well-known Urdu poet. When his father, Akbar II, died on September 28, 1837, he was the second son and became his father's heir.

• He was merely a nominal Emperor because the Mughal Empire was simply a name and his authority was limited to the walled city of Old Delhi (Shahjahanabad).

• After convicting him on many crimes following his role in the Indian Rebellion of 1857, the British deported him to Rangoon in British-controlled Burma.

• Zafar's father, Akbar II, had been imprisoned by the British and was not his father's first choice for the throne.

Important Points

• The Indian Rebellion of 1857 was a large, although ultimately unsuccessful, rebellion in India in 1857–58 against the control of the British East India Company, which acted as the British Crown's sovereign power.

Q81. Answer: (d) Article 356

The correct answer is Article 356.

Key Points

• In 1959, the Central Government of India undertook the governance in Kerala under Article 356 of the Constitution of India.

• On July 31, 1959, during Vimochana samaram, Article 356 was utilized for the first time to dissolve Kerala's democratically elected Communist state government.

• The States Reorganisation Act of 1956 merged the Malabar district, Travancore-Cochin, and the taluk of Kasargod, South Kanara, to form the state of Kerala on November 1, 1956.

• Elections for the new Kerala Legislative Assembly were held in 1957, and E. M. S. Namboodiripad led a reformist, Communist-led government to power.

• It was the first time in India's history that a Communist administration was democratically elected to power.

• By submitting new measures in the state legislature, it pioneered land reforms and educational reforms. The Catholic Church's opposition in Kerala.

Important Points

• Article 352: Proclamation of Emergency.

• Article 360: Provisions as to financial emergency

• Article 349: Special procedure for enactment of certain laws relating to language

Q82. Answer: (c) HelpAge India

The correct answer is HelpAge India.

Key Points

• According to a UNFPA press release, HelpAge India has been awarded the UN Population Award for 2020 (institutional category) (United Nations Population Fund).

• The United Nations Population Award, established by the United Nations General Assembly in 1981, honours contributions in the domains of population and reproductive health.

• The selection committee for the United Nations Population Award is chaired by Ion Jinga, Romania's Permanent Representative to the United Nations, and is made up of members from nine other UN Member States.

Important Points

• The Committee for the United Nations Population Award recognizes an individual or organization for outstanding contributions to population and reproductive health issues and solutions.

• The General Assembly established the award in 1981 with resolution 36/201, and it was first presented in 1983.

• A gold medal, a diploma, and a monetary prize are included.

Q83. Answer: (c) Gujarat, Narmada

The correct answer is Gujarat, Narmada.

Key Points

• On the Indian Narmada River, the Sardar Sarovar Dam (SSD) is located in the village of Kevadia in Gujarat.

• It is one of the country's largest and most contentious multipurpose river valley infrastructure development projects.

• Auxiliary works including a 1,450MW power complex are also part of the Sardar Sarovar Project (SSP).

• In 2010-2011, SSP was expected to have cost INR400 billion, up from an initial estimate of INR64 billion in 1988.

• It is part of the Narmada Valley Development Project, a large-scale project to generate electricity and provide drinking and irrigation water to the states of Gujarat, Madhya Pradesh, and Maharashtra.

Important Points

• The Narmada River is India's fifth longest river, the largest west-flowing river, and the largest flowing river in Madhya Pradesh.

• The Madhya Pradesh and Gujarat states of India share this river.

• Because of its various contributions to the states of Madhya Pradesh and Gujarat, it is also known as "Madhya Pradesh and Gujarat's Lifeline."

Q84. Answer: (d) Football

The correct answer is Football.

Key Points

• In the 2002 LG Cup in Vietnam, the erstwhile Manitombi represented India.

• It was Stephen Constantine's first tournament as head coach, and it marked the end of a 31-year drought for the senior national team.

• Manitombi was also a member of the Indian team at the Asian Games in Busan in 2002.

• Manitombi scored in his first game for Mohun Bagan in 2003, leading them to triumph in the All Airlines Gold Cup.

• In 2015-16, he also played for Air India and Salgaocar, as well as previous Manipur league champions Anouba Imagi Mangal, before becoming the club's head coach.

Q85. Answer: (d) Jigmet Dolma

The correct answer is Jigmet Dolma.

Key Points

• India's Jigmet Dolma finished fourth in the Dhaka Marathon 2021.

• SPO Jigmet Dolma is a Ladakh police officer. The marathon was held to celebrate Bangabandhu Sheikh Mujibur Rahman's homecoming to Bangladesh from a Pakistani jail in 1972.

• In the full marathon, Bahadur Singh of India took first place in the men's category and Pushpa Bhandari of Nepal took first place in the women's category among SAARC and local runners.

• Hicham Lakohi of Morocco won the elite competition of the marathon in the men's division, while Angela Jim Asunde of Kenya took first place in the women's category.

Important Points

• The marathon was held to celebrate Bangabandhu Sheikh Mujibur Rahman's homecoming to Bangladesh from a Pakistani jail in 1972.

• The full marathon was 42.19 kilometers long, while the half marathon was 21.09 kilometers long.

Q86. Answer: (b) M3 = M1 + Net time deposits of post office savings

The correct answer is M3 = M1 + Net time deposits of post office savings.

Key Points

• On the institutional distinction between banks and other financial intermediaries, or on the functional qualities of monetary

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assets.

• The efficacy of the aggregates is likely to be affected by changes in banking practices and products.

• Money should reflect monetary assets and unique liquid liabilities of a specific set of financial intermediaries as a statistical construct.

• Since April 1977, four money supply measures have been published: M1, M2, M3, M4 which ranked assets in varying (decreasing) degrees of liquidity with extended institutional coverage of post offices and cooperative banks, which had begun a wide network to supplement commercial banks in their deposit and credit coverage, particularly after bank nationalization.

Additional Information

• M1 = CU + DD

• M2 = M1 + Savings deposits with Post Office savings banks

• M3 = M1 + Net time deposits of commercial banks

• M4 = M3 + Total deposits with Post Office savings organizations (excluding National Savings Certificates)

Q87. Answer: (d) 34

The correct answer is 34.

Key Points

• Ellora Caves are a series of 34 monasteries and temples that were dug side by side in the wall of a steep basalt cliff near Aurangabad, Maharashtra.

• Ellora, with its continuous line of monuments ranging from 600 to 1000 A.D., brings ancient India's civilization to life.

• The Ellora complex is not only a one-of-a-kind aesthetic and technological achievement, but it also exemplifies ancient India's tolerant attitude, with sanctuaries dedicated to Buddhism, Hinduism, and Jainism.

• Through extraordinary architectural activities carried out by adherents of three significant religions: Buddhism, Brahmanism, and Jainism, the unique ensemble of 34 caves at Ellora in the Charanandri hills of western India's Maharashtra State display a spirit of coexistence and religious tolerance.

• From the sixth through the twelfth centuries, rock-cutting took place in three stages.

Q88. Answer: (d) .docm

The correct answer is .docm.

Key Points

• A Word Open XML Macro-Enabled Document file with the DOCM extension is used in Microsoft Word.

• It first appeared in Office 2007. DOCM files are similar to DOCX files, but they can also run macros, allowing you to automate repetitive activities in Word.

• DOCM files, like DOCX files, can store formatted text, pictures, shapes, charts, and other data.

• This format, like Microsoft's other XML formats like DOCX and XLSX, employs XML and ZIP to compress data into a smaller size.

• The primary software tool for opening and editing DOCM files is Microsoft Word (version 2007 and higher).

Q89. Answer: (b) Karnataka

The correct answer is Karnataka.

Key Points

• Six states produce the majority of the country's sunflowers, with Karnataka leading the way.

• Karnataka, with a production of 3.04 lakh tonnes from an area of 7.94 lakh hectares, is India's largest sunflower producer, followed by Andhra Pradesh, Maharashtra, Bihar, Orissa, and Tamil Nadu.

• Sunflower agriculture covers around 1.48 million hectares in India, with an average yield of 0.6 metric tonnes per acre.

• Because around 80% of the region is under rain-fed agriculture, sunflower production is subject to systemic weather risk.

• Bihar leads the way in terms of productivity with 1402 kg/ha, followed by Tamil Nadu with 1328.7 kg, despite the fact that both states have fewer than 25000 hectares under the crop, which is primarily irrigated.

• The sunflower crop takes 90-100 days to mature. When the lower half of the head turns yellow and some of the bracts dry up, the crop must be picked.

Q90. Answer: (a) The Royal Swedish Academy of Sciences

The correct answer is The Royal Swedish Academy of Sciences.

Key Points

• The Nobel Memorial Prize in Economic Sciences, officially the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel, is a prize awarded by the Nobel Foundation for Economic Sciences.

• The Prize in Economic Sciences is associated with the Nobel Prize, despite the fact that it was not established by Alfred Nobel's will in 1895.

• Its winners are announced alongside the Nobel Prize honorees, and it is delivered at the Nobel Prize Award Ceremony.

• As a result, it is also known as the Nobel Prize in Economics. The Nobel Prize was founded in 1968 by a gift to the Nobel Foundation by Sweden's central bank, Sveriges Riksbank, to honour the bank's 300th anniversary.

Important Points

• The Nobel Foundation administers and refers to it, along with the Nobel Prizes.

• The Royal Swedish Academy of Sciences chooses the Laureates for the Memorial Prize in Economics.

• The prize was initially given to Dutch economist Jan Tinbergen and Norwegian economist Ragnar Frisch in 1969 for "developing and applying dynamic models for the investigation of economic processes."

Q91. Answer: (c) Acquired immunodeficiency syndrome (AIDS)

The correct answer is Acquired immunodeficiency syndrome (AIDS).

Key Points

• Enzyme-linked immunosorbent assay is a technique used in the detection of Acquired immunodeficiency syndrome (AIDS).

• The enzyme-linked immunosorbent assay (ELISA) test is frequently used to identify HIV infection.

• The test is frequently repeated to confirm the diagnosis if antibodies to HIV are present (positive).

• If the ELISA test is negative, no additional testing is usually required. After a person has been infected for a few weeks, this test has a minimal likelihood of giving a false result.

• The human immunodeficiency virus (HIV) is a virus that targets the immune system of the body.

• AIDS can develop if HIV is not treated (acquired immunodeficiency syndrome).

Q92. Answer: (d) Indian Institute of Technology Madras

The correct answer is Indian Institute of Technology Madras.

Key Points

• The 2020 edition of the Atal Rankings of Institutions on Innovation Achievements (ARIIA) has been published.

• The ranking is announced virtually due to the COVID-19 epidemic. IIT-Madras has been named the top institute in the category of institutes of national importance.

• According to the official release, ARIIA 2020 features a separate prize category for women-only higher educational institutions for the first time.

• Centrally supported institutions, state-funded universities, state-funded autonomous institutions, private/deemed universities, and private institutions are the remaining five groups.

Important Points

• IIT Madras (previously known as Madras Institute of Technology) is a public technical and research university in Chennai, Tamil Nadu, India.

• It is designated as an Institute of National Importance since it is one of the Indian Institutes of Technology (IITs).

• It was the third IIT created by the Government of India, and it was founded in 1959 with technical and financial aid from the former government of West Germany.

Q93. Answer: (c) 6 years or the age of 62 years, whichever is earlier

The correct answer is 6 years or the age of 62 years, whichever is earlier.

Key Points

• State Public Service Commission: The chairman and member occupy the office for 6 years or till they reach 62 years.

• They can resign by writing to Governor and also be removed by the president before their term expires.

• Grounds for removal are proved misbehaviour or incapacity. In this case, the president has to refer the matter to SC and if SC inquiry finds him guilty then SC can advise removal.

• This advice is binding on the president. Other grounds are engaged in paid employment, becomes bankrupt, or in the president's opinion is unfit to continue due to infirm body or mind.

• Governor can suspend the chairman or member pending investigation.

Q94. Answer: (b) Gujarat

The correct answer is Gujarat.

Key Points

• On October 8, 2020, Gujarat's chief minister, Shri Vijay Rupani, announced the commencement of the Gujarat Digital Seva Setu Yojana, which will give digital services to all people of the state.

• In terms of industrialization and digitalization, Gujarat has come a long way.

• The state administration has initiated a number of initiatives to encourage digitalization and transparency.

• In the presence of Honorable Prime Minister Shri Narendra Modi, this scheme was launched.

• By the end of December 2020, the initiative aims to give digital services to approximately 3500 villages.

Q95. Answer: (d) Bhubaneswar

The correct answer is Bhubaneswar.

Key Points

• Naveen Patnaik, the Chief Minister of Odisha, virtually inaugurated a first-of-its-kind ‘Fire Park' to educate and raise awareness about basic fire safety practices among the general public, especially students.

• The ‘Fire Park' is located in Bhubaneswar, inside the Odisha Fire and Disaster Academy.

• "AgnishamaSeva," the Odisha Fire Service's web platform, was officially introduced by the minister.

• At the fire park, there will be demonstrations on how to utilize first aid firefighting equipment, rescue and disaster operations, visits to the exhibition hall, film screenings, and the distribution of fire safety leaflets.

Important Points

• Chief Minister of Odisha: Shri Mohan Charan Majhi.

• Odisha Capital: Bhubaneswar.

• Odisha Governor: Shri Raghubar Das.

Q96. Answer: (b) Hundru waterfall

The correct answer is Hundru waterfall.

Key Points

• Hundru Falls is a waterfall in Jharkhand. It is located in the Ranchi district.

• It is India's 34th highest waterfall. It is one of the most well-known tourist destinations in the area.

• On the Subarnarekha River's course, where it drops from a height of 98 meters (322 feet), forming one of the state's highest waterfalls.

• One of the scarps falls in the region is Hundru Falls, which is located on one of the margins of the Ranchi plateau.

Important Points

• Jog Falls is a waterfall on the Sharavati River in the Western Ghats near Sagar Taluk in Karnataka's Uttara Kannada District.

• The Chulia Falls are west of Rawatbhata and east of Pdjar Nla.

• Dudhsagar Falls is a four-tiered waterfall in the Indian state of Goa, located on the Mandovi River.

Q97. Answer: (d) Plotter

The correct answer is Plotter.

Key Points

• The plotter was the first output to produce huge graphics and engineering drawings.

• It is currently referred to as a large format or wide format printer. Plotter printers are printers that print vector graphics.

• A computer hardware device that, unlike a standard toner printer, draws continuous lines on media materials using stationery writing instruments rather than a succession of dots.

• Plotter printers are more advanced since they print high-quality drawings while printing. This is the best printer for printing plans, maps, and diagrams.

Important Points

• A pen drive is a storage device, not an input or output device.

• A joystick is an input device that consists of a stick that pivots on a base and reports the angle or direction it is controlling to the device it is controlling.

• Scanners are input devices that allow users to directly enter data from a source paper into a computer system.

Q98. Answer: (c) Sikkim

The correct answer is Sikkim.

Key Points

• The Phodong Monastery is a Buddhist monastery in the Indian state of Sikkim.

• It is 28 kilometers away from Gangtok. It was established in the early eighteenth century, but it was preceded by an older monastery.

• The King of Sikkim welcomed the 9th Karmapa to Sikkim, where he constructed three monasteries: Rumtek, one of the most famous Karma Kagyu monasteries, Phodong, and Ralang Monastery.

• It was rebuilt by Sidkeong Tulku Namgyal, who was identified as the reincarnation of his uncle, the monastery's abbot, Sidkeong Namgyal.

• The monastery houses about 260 monks and is home to a large collection of ancient murals.

Q99. Answer: (d) Santhals

The correct answer is Santhals.

Key Points

• A large area of land demarcated as Damin-i-Koh in 1832 was declared as the land of the Santhals.

• The government set aside a big area in Damin-i-Koh for the Santals' habitation in 1832.

• This tract's population grew from 3,000 in 1838 to 82,795 in 1851.

• Damin-i-Koh was the name given to the forested steep portions of the Rajmahal Hills in the present-day districts of Sahebganj, Pakur, and Godda in Jharkhand, India.

• In eastern India, the Santals are the most populous group.

• The 1793 Permanent Settlement compelled landowners to increase land productivity.

Q100. Answer: (a) KN Ananthapadmanabhan

The correct answer is KN Ananthapadmanabhan.

Key Points

• Following the promotion of compatriot Nitin Menon to the elite panel, India's KN Ananthapadmanabhan has been added to the ICC's international panel of umpires.

• In the international panel, the former Kerala spinner joins other Indians C Shamshuddin, Anil Chaudhary, and Virender Sharma, and is now qualified to officiate in ODI and T20 internationals, as well as an umpire in the youth World Cup.

• Ananthapadmanabhan took 344 and 87 wickets in 105 First-Class and 54 List A games for Kerala, respectively.

Important Points

• Sundaram Ravi is an Indian cricket umpire who served on the International Cricket Council's Elite Panel of Umpires from 2015 to 2019.

• Anil Chaudhary is a cricket umpire from India. On October 10, 2013, he played in his maiden Twenty20 International (T20I) between India and Australia.

• Kumar Dharmasena, also known as Deshabandu Handunnettige Deepthi Priyantha Kumar Dharmasena, is a Sri Lankan cricket umpire and former international cricketer who represented Sri Lanka in Tests and ODIs.

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