SSC CHSL 2020 Official Paper 8 (Held On: 15 April 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. Directions: Select the correct Indirect form of the given sentence.

"Let's not have non-vegetarian meals in summer", Aruna said to her son.

(a) Aruna will suggest to her son that they should not have non-vegetarian meals in summer.
(b) Aruna has been suggesting to her son that they should not have non-vegetarian meals in summer.
(c) Aruna suggesting to her son that we should not have non-vegetarian meals in summer.
(d) Aruna suggested to her son that they should not have non-vegetarian meals in summer.

Q2. Directions: Examine the four jumbled sentences. Out of the given options, pick the one that gives its correct order.

A. These young cadets undergo a rigorous training program that is aimed to prepare them for the Armed Forces.

B. Finally, after the Senior Secondary examination, these cadets compete to qualify for entry into the National Defence Academy located in Pune.

C. It is also referred to as the Cradle of Excellence which trains cadets from the early age of 12.

D. Nestled in a lush green campus of 18 acres in Dehradun Cantonment is the RIMC, the Rashtriya Indian Military Academy.

(a) DABC
(b) CABD
(c) DCAB
(d) ABDC

Q3. Directions: Select the option which means the same as the group of words given.

An act of breaking or failing to observe a law

(a) breach
(b) brooch
(c) braid
(d) brusque

Q4. Directions: Examine the four jumbled sentences. Out of the given options, pick the one that gives its correct order.

A. Our first impression was that both seemed a bit depressed.

B. It was much later that they became our close friends and confided about their son’s tragic death.

C. The Mehras were newcomers to the neighborhood.

D. My wife and I called on them to enquire if they needed any help.

(a) CDAB
(b) ACDB
(c) DBAC
(d) BDAC

Q5. Directions: Select the correct passive form of the given sentence.

Anant likes experimenting with different cuisines.

(a) Experimenting with different cuisines is liked by Anant.
(b) Different cuisines are being experimented with by Anant.
(c) Different cuisines like experimenting with Anant.
(d) Anant had liked experimenting with different cuisines.

Q6. Directions: Select the option which means the same as the group of words given.

A patient with imaginary symptoms and diseases

(a) hypochondriac
(b) melancholic
(c) alcoholic
(d) cardiac

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

I have made it a point to call my teachers on September 5 as a token of mine gratitude.

(a) on September 5 as a token
(b) I have made
(c) of mine gratitude
(d) it a point to call my teachers

Q8. Directions: Select the most appropriate synonym of the given word.

ADULATION

(a) scorn
(b) adoration
(c) apathy
(d) aversion

Q9. Directions: Select the INCORRECTLY spelt word.

(a) turtle
(b) tattle
(c) embattle
(d) belitle

Q10. Directions: Each of the following sentences in this section has a blank space and is followed by four choices. Select the most appropriate choice to fill in the blank and mark your response accordingly.

Courts are _____ of the Constitution as they are expected to see that it is always respected.

(a) masters
(b) sentinels
(c) dictators
(d) leaders

Q11. Directions: Select the option that will improve the underlined segment in the given sentence. In case no improvement is needed, select 'No improvement'.

Sitab has learnt how to cook really well as he regularly watching YouTube videos.

(a) watch
(b) watches
(c) will watch
(d) No improvement

Q12. Directions: Select the most appropriate ANTONYM of the given word.

MEAGRE

(a) sufficient
(b) deficient

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(c) scares
(d) scanty

Q13. Directions: Select the option that will improve the underlined segment in the given sentence. In case no improvement is needed, select 'No improvement'.

It is the responsibility of all of us to invest time and effort in verifying information and not follow victim to fake news.

(a) not following victim
(b) not follows victim
(c) No improvement
(d) not fall victim

Q14. Directions: Select the most appropriate meaning of the given idiom.

Be glad to see the back of

(a) Be happy to see someone again
(b) Be happy at another's success
(c) Be relieved at another's failure
(d) Be happy when a person leaves

Q15. Directions: Select the most appropriate option to fill in the blank.

According to Soli Sorabjee, listening to cases being argued in court can be _____ but there are lighter moments too.

(a) lively
(b) tedious
(c) fun
(d) entertaining

Q16. Directions: Select the most appropriate meaning of the given idiom.

By the skin of one's teeth

(a) Without anyone's help
(b) By a very narrow margin
(c) With the help of someone
(d) By a very big margin

Q17. Directions: Select the most appropriate ANTONYM of the given word.

HORRENDOUS

(a) frightening
(b) dreary
(c) watchful
(d) pleasant

Q18. Directions: Select the INCORRECTLY spelt word.

(a) seperate
(b) inapplicable
(c) forbidding
(d) smallish

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

RAGGED

(a) original
(b) smooth
(c) golden
(d) torn

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Q20. Directions: In the given sentence, identify the segment which contains the grammatical error.

Economists have declared that 2020 graduates will face the worse job depression since the Great Depression because of the COVID-19 pandemic.

(a) Economists have declared that 2020 graduates
(b) will face the worse job depression
(c) because of the COVID-19 pandemic
(d) since the Great Depression

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.

In order to promote reading, we must become role models for the young by setting _(1)_ our own smartphones to lose ourselves in a book. We too _(2)_ switch off our devices and set aside space and time to _(3)_ old habits that once transported us to the world of _(4)_. Studies report that such deep reading leads one to become sensitive and _(5)_ citizens of the community.

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

(a) aside
(b) out
(c) apart
(d) about

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

(a) might
(b) should
(c) ought
(d) shall

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

(a) reconstruct
(b) reignite
(c) redo
(d) react

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

(a) imagines
(b) imagination
(c) imaginative
(d) imagine

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

(a) thoughtfully
(b) thoughtless
(c) thoughtfulness
(d) thoughtful

GENERAL INTELLIGENCE

Q26. Which two signs should be interchanged to make the following equation correct?

$18 - 12 \div 4 + 8 \times 2 = 5$

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

Q27. 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) RVYC
(b) MQTX
(c) BFIM
(d) JFCY

Q28. Select the number from among the given options that can replace the question mark (?) in the following series.

1, 6, 25, 76, ?, 154

(a) 164
(b) 134
(c) 123
(d) 153

Q29. 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.

PRMV : KMHQ : : SQVM : ?

(a) NLQH
(b) NLPG
(c) OMRJ
(d) VXSB

Q30. 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:

All jasmines are flowers.

No flower is a plant.

Some plants are herbs.

Conclusions:

I. Some jasmines are herbs.

II. No jasmines is a herb.

III. No jasmine is a flower.

(a) Only conclusion II follows
(b) Only conclusions II and III follow
(c) Either conclusion I or II follows
(d) Only conclusions I and II follow.

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

{8, 24, 6}

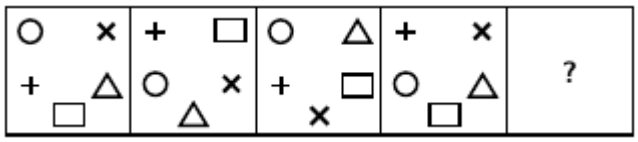
(a) {3, 12, 8}
(b) {8, 16, 3}
(c) {9, 40, 8}
(d) {14, 44, 8}

Q32. B and D are cousin brothers. A is the father of B and the uncle of C, who is the sister of D. C's mother is married to E, who is the brother of A. How is B related to C's father?

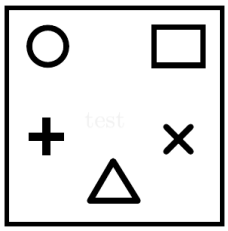
(a) Brother-in-law
(b) Son
(c) Nephew
(d) Uncle

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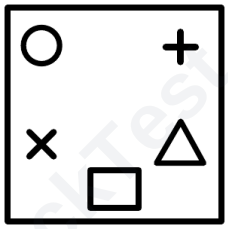
Q33. Select the figure that will come next in the following series.



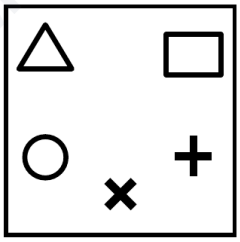
(a)



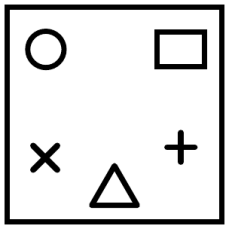
(b)



(c)

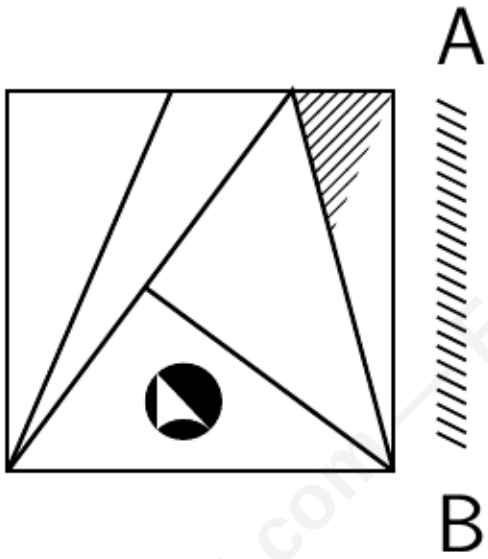


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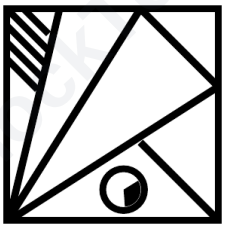


Q34. Select the correct mirror of the given figure when the mirror is placed at the right side of the figure.

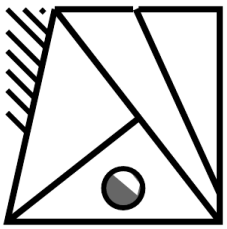
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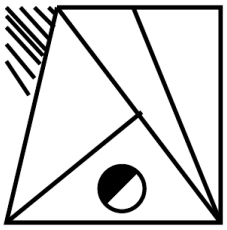
(a)



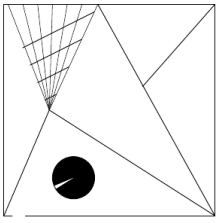
(b)



(c)



(d)



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Q35. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series

g_ ctd_ wpmz_pctdawp_zgpct_a_pmz

(a) pagmdw
(b) pgadmw
(c) pgdamw
(d) pamgwd

Q36. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

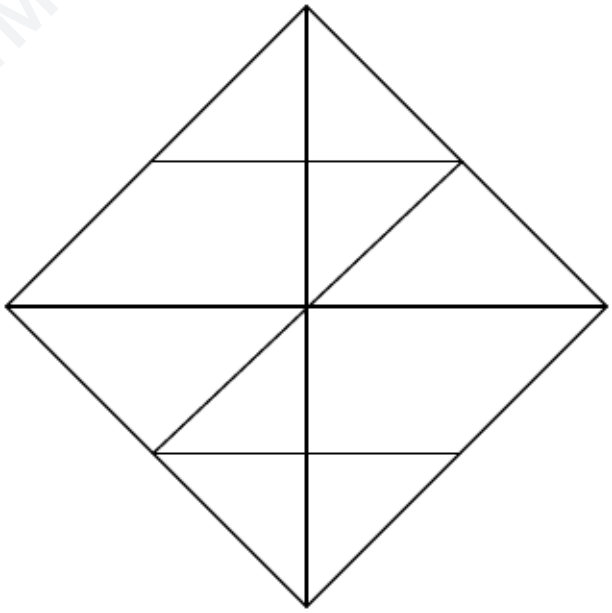
10 : 17

(a) 26 : 37
(b) 20 : 31
(c) 35 : 50
(d) 17 : 28

Q37. 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) 126
(b) 518
(c) 344
(d) 1332

Q38. How many triangles are there in the following figure?



(a) 16
(b) 18
(c) 22
(d) 20

Q39. ‘Accident’ is related to ‘Carelessness’ in the same way as ‘Success’ is related to ‘_____

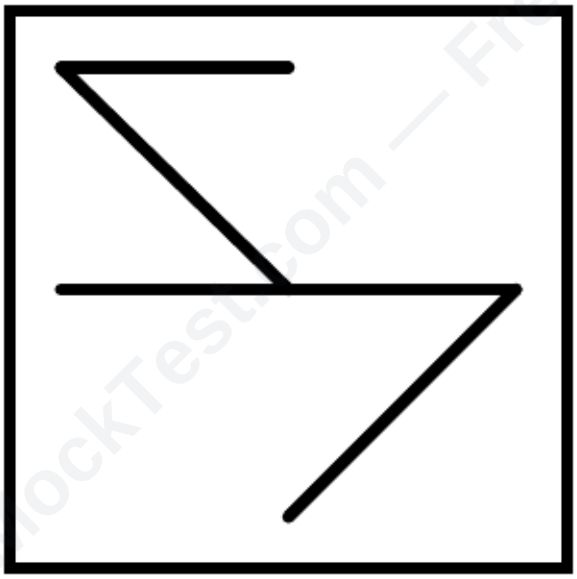
(a) Employment
(b) Progress
(c) Diligence
(d) Promotion

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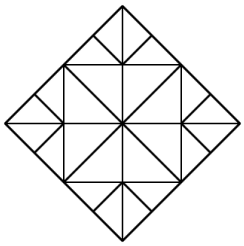
Q40. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

(a) YBVT
(b) GJDB
(c) MPJH
(d) DGBZ

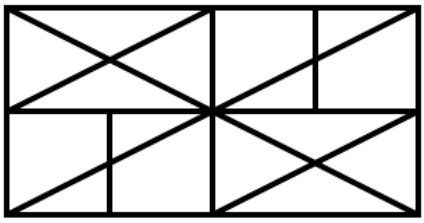
Q41. Select the option in which the given figure is embedded (rotation is NOT allowed).



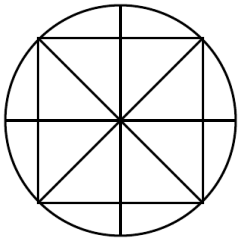
(a)



(b)

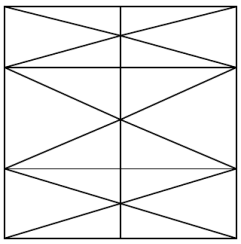


(c)



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(d)



Q42. Select the option in which the words share the same relationship as that shared by the given pair of words.

Anger : Emotion

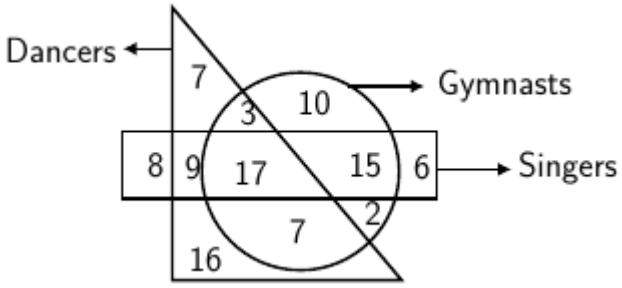
(a) Alertness : Courage
(b) Rabbit : Mammal
(c) Grass : Lawn
(d) Table : Wood

Q43. In a certain code language, PLEASANT is written as BFMQUOBT. How will DISTANCE be written in that language?

(a) UTJEBODF
(b) UTJEFDOB
(c) UTESBFOD
(d) TJEBUFDO

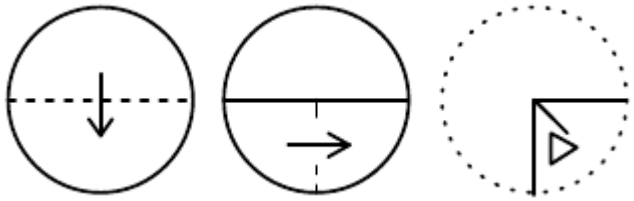
Q44. In the given diagram, the shapes indicate the categories of persons. The numbers given in the different segments represent the number of persons in that category.

How many dancers are either gymnasts or singers but NOT both?

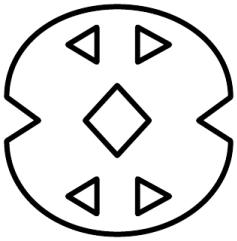


(a) 15
(b) 22
(c) 11
(d) 19

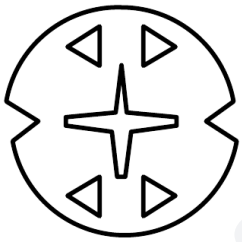
Q45. The sequence of folding a piece of circular paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



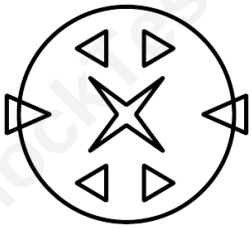
(a)



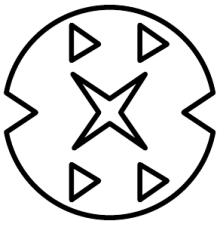
(b)



(c)



(d)



Q46. Select the option in which the numbers are related in the same way as are the numbers of the following set.

{9, 21, 16}

(a) {36, 42, 64}
(b) {16, 32, 27}
(c) {4, 20, 18}
(d) {8, 60, 12}

Q47. Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.

1. Cook
2. Morning
3. Lunch
4. Fish
5. Market
6. Dish

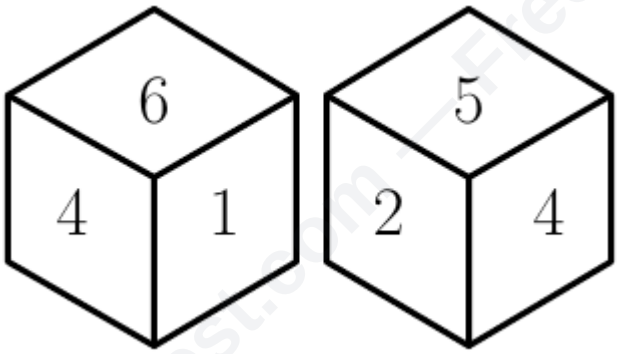
(a) 4, 1, 6, 3, 2, 5
(b) 4, 5, 2, 6, 3, 1
(c) 5, 2, 4, 1, 6, 3
(d) 2, 5, 4, 1, 6, 3

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Q48. In a certain code language, PRICK is coded as 30 and MAKE is coded as 12. How will CRAZY be coded in that language?

(a) 35
(b) 30
(c) 28
(d) 24

Q49. Two different positions of the same dice are shown. Select the number that will be at top if '1' is at the bottom



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

Q50. The price of fuel has now increased by 20%. If a customer wants to keep his expenditure on fuel the same, he should reduce the consumption of the quantity of fuel by:

(a) 15%
(b) 162/3%
(c) 20%
(d) 122/3%

QUANTITATIVE APTITUDE

Q51. If 9685 is divided into three parts in such a way that one-fourth of the first part, one-third of the second part and one-sixth of the third part are equal, then what is the first part?

(a) 2980
(b) 2253
(c) 4470
(d) 2235

Q52. If $(7x + 3)^3 + (x - 2)^3 + 27(2x - 5)^3 = 9(7x + 3) \times (x - 2) \times (2x - 5)$ then the value of $5x + 3$ is:

(a) 2
(b) 10
(c) 6
(d) 8

Q53. Two successive discounts of 40% and 20%, respectively, on the marked price of an article are equal to single discount of Rs 988. The marked price (in Rs) of the article is:

(a) 1,900
(b) 2,200
(c) 2,470
(d) 2,070

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Q54. If x + y = 5 and $x^2 + y^2 = 17$ then the value of ?(x-y)?² is equal to:

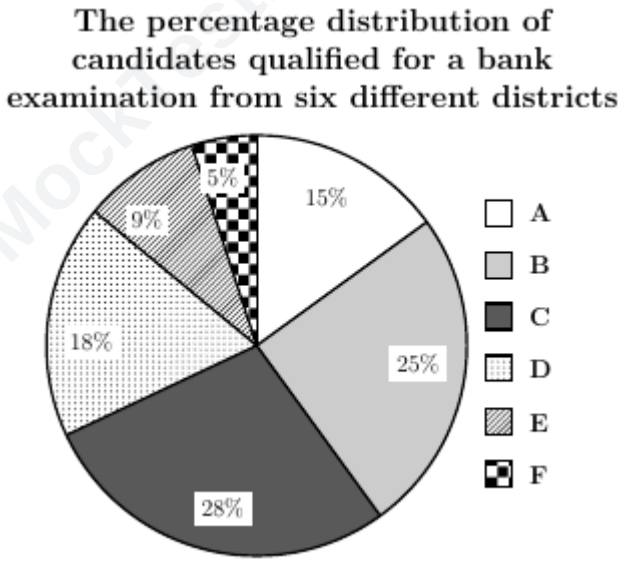
(a) 9
(b) 16
(c) 4
(d) 25

Q55. The sides AB and AC of a ΔABC are produced up to points D and E. The bisectors of the exterior angles to formed. intersect each other at point I if angle ACB is 66^0and angle ABC is 440, then what is the measure (in degrees) of angle BIC?

(a) 52
(b) 50
(c) 55
(d) 48

Q56. Study the given pie-chart and answer the question that follows

The pie-chart represent the percentage distribution of candidates qualified in a bank examination from six different districts of a State in 2016. The total number of qualified candidates from the State is 68000.



If 22% and 20% of the qualified students from Districts B and C, respectively, were 22 years old or below. then the number of qualified students who were above 22 years from District B is what percent (to the nearest integer) of the number of qualified students who were above 22 years from District C?

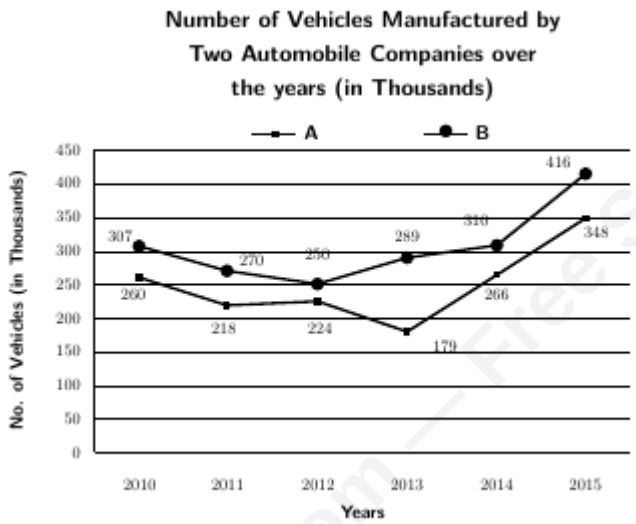
(a) 80
(b) 67
(c) 60
(d) 87

Q57. Study the line graph and answer the question that follows

The line graph represents the number of vehicles (in thousands) manufactured by two automobile companies A and B over the years from 2010 to 2015. The X-axis represents the years and the Y-axis represents the number of vehicles in thousands.

(The data shown here is only for mathematical exercise. They do not represent the actual figures of the country)

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What is the difference between the average number of vehicles (in thousands) of companies A and B for the years 2010, 2012,2014, and 2015?

(a) 50.25
(b) 48.25
(c) 46.25
(d) 45.75

Q58. When an integer n is divided by 6, the remainder is 5. What is the remainder if 9n is divided by 6?

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

Q59. What is the value of ([1/9 ÷ 1/9of1/9] × 1/9)/(1/9 + 1/9of1/9) ?

(a) 81/81
(b) 91/81
(c) 91/10
(d) 81/10

Q60. If (3p - 5m) = 5 and pm = 6, then what is the value of ($9p^2$ - 25 m^2)?

(a) 30 √10
(b) 5 √385
(c) ±30√10
(d) ±5√385

Q61. If the simple interest for 9 years be equal to 45% of the principal, then the rate of interest per annum is equal to:

(a) 6%
(b) 5%
(c) 9%
(d) 8%

Q62. Solve for x?

$\sin^2 x - 4 \sin x + 3 = 0, 0 \le x \le \pi/2$

(a) π/6
(b) π/4
(c) π/2
(d) π/3

Q63. Two person P and Q are 844 m apart. The both start cycling simultaneously in the same direction with speeds of 12 m/s and 8 m/s, respectively, In how much time will P overtake Q?

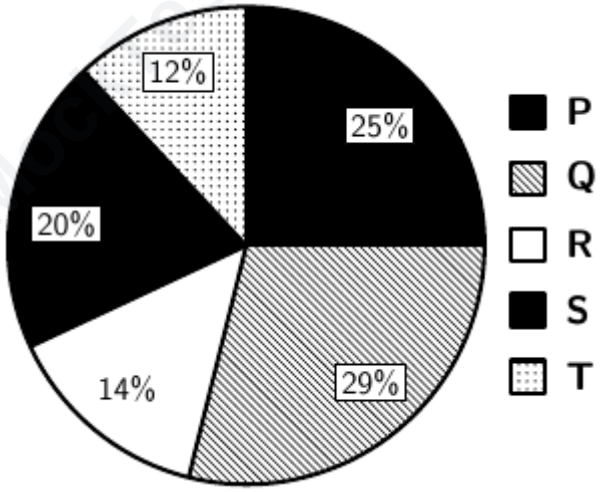
(a) 3 minutes and 18 seconds
(b) 3 minutes and 20 seconds
(c) 3 minutes and 31 seconds
(d) 3 minutes and 24 seconds

Q64. The average monthly expenditure of a man is Rs.2400 during the first three month, Rs 3,500 during the next five months and Rs 4,800 for the remaining four months. If his total saving is Rs.3,500 during the entire year. then what is his average monthly income (in Rs)?

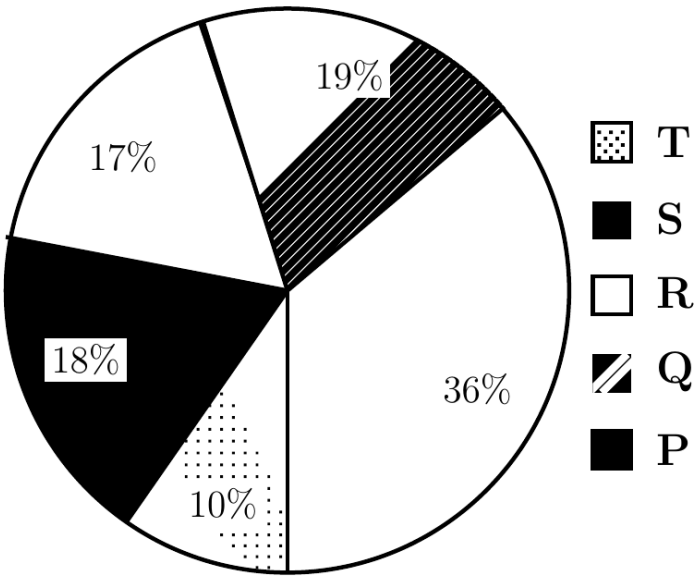
(a) 4,550
(b) 4,100
(c) 3,700
(d) 3,950

Q65. The given pie charts show the distribution of students of graduate and postgraduate levels in five different instututes P, Q, R, S and T in a town. Study the pie charts and answer the question that follows.

(i) Total number of students of graduate level in five different institutes = 12400



(ii) Total number of students of postgraduate level in five different institutes = 8000



The number of students in graduate level in institute S is appriximately what percentage more than the number of students in post graduate level in institute S

(correct to one decimal place)

(a) 62.2%
(b) 70.2%
(c) 72.2%
(d) 74.4%

Q66. By selling an article for Rs 8,670 a man loses 15% At what price (in Rs) should he sell it in order to make a profit of 15%?

(a) 13,370
(b) 11,730
(c) 18,590
(d) 23,560

Q67. Study the line graph and answer the question that follows

The line graph reprensents the number of vehicles (in thousands) manufactured by two automobile companies A and B over the years from 2010. The X -axis represents the years and Y -axis represents of vehicles in thousands.

(The data shown here is only for mathematical exercise. They do not represent the actual figures of the country)



If there was an increase of 24% in the average number of vehicles (in thousands) manufactured by company B during 2011 to 2014) with respect to number of vehicles manufacured by company A in 2009. then how many vehicles (in thousands) did company A manufacture in 2009?

(a) 257.6
(b) 274.6
(c) 247.6
(d) 225.6

Q68. If tan θ = 15, then what is the value of sec θ?

(a) 1/√226
(b) 1/√224
(c) √226
(d) √224

Q69. What is the value of ? = fractan²60^0 - 2sin²45^0cos24^0cos37^0coses53^0cos60^0cosec66^0 + sin²60^0

(a) 2
(b) 14/5
(c) 1
(d) 13/5

Q70. A number is mistakenly multiplied by 7/5 instead of being multipiled by 3/2, what is the percentage change in the result due to this mistake?

(a) 32/3%
(b) 52/3%
(c) 62/3%
(d) 72/3%

Q71. A can complete a piece of work in 7 days and B can complete the same work in 12 days. A and B worked together for 3 days. C alone completed the remaining work in 9 days will C take to complete the same work entirely?

(a) 21
(b) 35
(c) 28
(d) 14

Q72. The sum of the radii of two circles is 286 cm and the area between the concentric circle is 50336 cm^2 what are the radii (in cm) of the two circles? Take $\pi = 22/7$

(a) 171 and 84
(b) 91 and 84
(c) 115and 91
(d) 115 and 171

Q73. The diameter of a semicircle is 5.6 m what is its perimeter (in m, correct to one decimal place)? ($\pi = 22/7$)

(a) 17.6
(b) 1111.2
(c) 8.8
(d) 14.4

Q74. The perimeter of an isosceles triangle is 3.6 m and its base is 30 cm shorter than each of the equal sides. What is the area (in m^2) of the triangle?

(a) 0.72
(b) 0.8
(c) 0.54
(d) 0.6

Q75. What is the length (in cm) of the longest rod that can be fitted in a box dimensions 28 cm × 4 cm × 10 cm ?

(a) 30
(b) 36
(c) 42
(d) 25

GENERAL AWARENESS

Q76. Which of the following does NOT have an opportunity cost?

(a) Soap
(b) Sunlight
(c) Software
(d) Stylus

Q77. In which of the following Indian state is the Barnawapara Wildlife Sanctuary located?

(a) Assam
(b) Chhattisgarh
(c) Karnataka
(d) Sikkim

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Q78. Which movie has been selected as India's official entry to the Oscars 2021?

(a) Fandry
(b) Jallikattu
(c) Ek Hazarachi Note
(d) Yellow

Q79. Which of the following teams won the IPL 2020 trophy?

(a) Rajasthan Royals
(b) Mumbai Indians
(c) Chennai Super Kings
(d) Delhi Capitals

Q80. Which of the following is India's fastest supercomputer as of December 2020?

(a) Pratyush (Cray XC40)
(b) SAGA-220
(c) Mihir (Cray XC40)
(d) PARAM Siddhi-AI

Q81. Which of the following states ranked second in NITI Aayog's Export Preparedness Index 2020?

(a) Gujarat
(b) Kerala
(c) Maharashtra
(d) Tamil Nadu

Q82. Identify the river system in which you will find the river 'Dihang'.

(a) Ganga
(b) Indus
(c) Brahmaputra
(d) Godavari

Q83. Which of the following ministries had the highest percentage increase in budgetary allocation for Budget 2020-21?

(a) Ministry of Communications
(b) Ministry of Agriculture and Farmers' Welfare
(c) Ministry of Home Affairs
(d) Ministry of Housing and Urban Affairs

Q84. Who among the following is the author of the book 'A Fine Balance'?

(a) Rohinton Mistry
(b) Shashi Tharoor
(c) Amitav Ghosh
(d) Arvind Adiga

Q85. _____ was the first Test cricket captain of an independent Indian team.

(a) Hemu Adhikari
(b) Vijay Hazare
(c) Bishan Singh Bedi
(d) Lala Amarnath

Q86. Identify the revolutionary from West Bengal who participated in the freedom movement.

(a) Khudiram Bose
(b) Balakrishnan Nair
(c) Mukunda Kakati
(d) Puli Thevar

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Q87. Which of the following is the highest hill station in India?

(a) Leh
(b) Ponmudi
(c) Manali
(d) Jogimatti

Q88. Which of the following dynasties made Kanauj (Kanyakubja) it's the capital city?

(a) Sena dynasty
(b) Pratihara dynasty
(c) Chola dynasty
(d) Pala dynasty

Q89. _____ is a draft of a legislative proposal before the House.

(a) A revocation
(b) An act
(c) A provision
(d) A bill

Q90. In which part of the human body will you find the 'superior rectus'?

(a) Ear
(b) Eye
(c) Nose
(d) Tongue

Q91. With which of the following states is the traditional instrument called 'Pena' associated?

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

Q92. Who among the following became the youngest Member of Parliament in the 17th Lok Sabha?

(a) Tejasvi Surya
(b) Gaurav Gogoi
(c) Chandrani Murmu
(d) Nusrat Jahan Ruhi

Q93. Which of the following rivers originates from the 'Rakas Lake'?

(a) Beas
(b) Jhelum
(c) Chenab
(d) Sutlej

Q94. Which chemical reaction takes place during the cooking of meat?

(a) The Gattermann reaction
(b) The Maillard reaction
(c) The Swartz reaction
(d) The Finkelstein reaction

Q95. Which of the following is an example of gravitational potential energy?

(a) Water that is behind a dam
(b) Bullet fired from a gun
(c) Foot kicking a ball
(d) Moving car

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Q96. Who among the following is the author of the book 'Cross Connection: The Big Circus Adventure'?

(a) Rajkumar Rao
(b) Aditya Chopra
(c) Jugal Hansraj
(d) Harman Baweja

Q97. In which year was Microsoft's Windows operating system first introduced?

(a) 1991
(b) 1993
(c) 1989
(d) 1985

Q98. In which Olympic Games did Karnam Malleswari became India's first woman to win an Olympic medal?

(a) Sydney 2000 Olympic Games
(b) Atlanta 1996 Olympic Games
(c) London 2012 Olympic Games
(d) Brazil 2016 Olympic Games

Q99. Who among the following was the first para-athlete to receive the Rajiv Gandhi Khel Ratna?

(a) Devendra Jhajharia
(b) Varun Singh Bhati
(c) Naresh Kumar Sharma
(d) Mariyappan Thangavelu

Q100. Teeyan is a festival celebrated in Punjab, which celebrates the onset of _____.

(a) winter
(b) spring
(c) monsoon
(d) summer

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) Aruna suggested to her son that they should not have non-vegetarian meals in summer.

The solution is in Hindi. Read it online.

Q2. Answer: (c) DCAB

The solution is in Hindi. Read it online.

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Q3. Answer: (a) breach

The solution is in Hindi. Read it online.

Q4. Answer: (a) CDAB

The solution is in Hindi. Read it online.

Q5. Answer: (a) Experimenting with different cuisines is liked by Anant.

The solution is in Hindi. Read it online.

Q6. Answer: (a) hypochondriac

The solution is in Hindi. Read it online.

Q7. Answer: (c) of mine gratitude

The solution is in Hindi. Read it online.

Q8. Answer: (b) adoration

The solution is in Hindi. Read it online.

Q9. Answer: (d) belitle

The solution is in Hindi. Read it online.

Q10. Answer: (b) sentinels

The solution is in Hindi. Read it online.

Q11. Answer: (b) watches

The solution is in Hindi. Read it online.

Q12. Answer: (a) sufficient

The solution is in Hindi. Read it online.

Q13. Answer: (d) not fall victim

The solution is in Hindi. Read it online.

Q14. Answer: (d) Be happy when a person leaves

The solution is in Hindi. Read it online.

Q15. Answer: (b) tedious

The solution is in Hindi. Read it online.

Q16. Answer: (b) By a very narrow margin

The solution is in Hindi. Read it online.

Q17. Answer: (d) pleasant

The solution is in Hindi. Read it online.

Q18. Answer: (a) seperate

The solution is in Hindi. Read it online.

Q19. Answer: (d) torn

The solution is in Hindi. Read it online.

Q20. Answer: (b) will face the worse job depression

The solution is in Hindi. Read it online.

Q21. Answer: (a) aside

The solution is in Hindi. Read it online.

Q22. Answer: (b) should

The solution is in Hindi. Read it online.

Q23. Answer: (b) reignite

The solution is in Hindi. Read it online.

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Q24. Answer: (b) imagination

The solution is in Hindi. Read it online.

Q25. Answer: (d) thoughtful

The solution is in Hindi. Read it online.

Q26. Answer: (c) • and –

Given equation -

18 – 12 ÷ 4 + 8 × 2 = 5

Apply BODMAS rule -

From option 1 -

18 – 12 ÷ 4 + 8 × 2 = 5

– and ÷, then -

18 ÷ 12 – 4 + 8 × 2 = 5

1.5 – 4 + 8 × 2 = 5

1.5 – 4 + 16 = 5

17.5 – 4 = 5

13.5 ≈ 5 It does not follow.

From option 2 -

18 – 12 ÷ 4 + 8 × 2 = 5

÷ and ×, then -

18 – 12 × 4 + 8 ÷ 2 = 5

18 – 12 × 4 + 4 = 5

18 – 48 + 4 = 5

22 – 48 = 5

–26 ≈ 5 It does not follow.

From option 3 -

18 – 12 ÷ 4 + 8 × 2 = 5

• and –, then -

18 + 12 ÷ 4 – 8 × 2 = 5

18 + 3 – 8 × 2 = 5

18 + 3 – 16 = 5

21 – 16 = 5

5 = 5, It is follow.

From option 4 -

18 – 12 ÷ 4 + 8 × 2 = 5

• and ÷, then -

18 – 12 + 4 ÷ 8 × 2 = 5

18 – 12 + 0.5 × 2 = 5

18 – 12 + 1 = 5

19 – 12 = 5

7 ≈ 5 It does not follow.

Hence, "option 3" is the correct answer.

Q27. Answer: (d) JFCY

The logic followed here is:

From option 1-

From option 2-

From option 3-

From option 4-

Option 1, 2 and 3 are the same logic but option 4 is different logic.

Hence, "option 4" is the correct answer.

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Q28. Answer: (d) 153

The logic followed here is:

First number is multiplied by 5 and add 1 we get second number, then second number multiplied by 4 and add 1 then we get third number and so on.

Hence, "153" is the correct answer.

Q29. Answer: (a) NLQH

The logic followed here is:

Similarly,

PRMV is related to KMHQ. Similarly, SQVM is related to NLQH.

Hence, "NLQH" is the correct answer.

Q30. Answer: (c) Either conclusion I or II follows

Note: This is previous year paper and given answer as per the official answer key.

The diagram are given below -

I. Some jasmines are herbs. → False (All jasmines are flowers, no flower is a plant and some plants are herbs from this we see that there is nothing common between jasmines and herbs.)

II. No jasmines is a herb. → False (No flower is a plant, some plants are herbs. from this we see that there is not direct no relation between flower and herb, so no relation establish.)

Or,

III. No jasmine is a flower. → False (All jasmines are flowers from this we see that all jasmines are followers then never be no relation between jasmine and flower.)

When we combining the statement I and II we can say that either I or II follows

Either conclusion 1 or 2 follows.

Hence, "option 3" is the correct answer.

Confusion Points

If no flower is a herb is true, then no jasmine will be herb because all jasmine are flowers

If some jasmines are herbs is true, then some flowers will be herbs because all jasmine are flowers. Then no flower is a herb will be false.

Important Points

Conditions of Either-or case:

1. Individually both the conclusions should be false.

2. One conclusion should be positive and one conclusion should be negative (Complementary pair)

The two complementary pairs are:

1) All + Some not

2) No + Some

Q31. Answer: (a) {3, 12, 8}

BODMAS rule -

In this question given logic are -

{8, 24, 6}

$8 \times 6 = 48 \div 2 = 24$

We multiply first and third number and we get number that number divided by 2 and get second number.

From option 1

{3, 12, 8}

$3 \times 8 = 24 \div 2 = 12$, which follow the logic. It is correct.

From option 2

{8, 16, 3}

$8 \times 3 = 24 \div 2 = 12 \approx 16$, which is not follow the logic. It is wrong.

From option 3

{9, 40, 8}

$9 \times 8 = 72 \div 2 = 36 \approx 40$, which is not follow the logic. It is wrong.

From option 4

{14, 44, 8}

14 × 8 = 112 ÷ 2 = 56 ≈ 44, which is not follow the logic. It is wrong.

Hence, "option 1" is the correct answer.

Q32. Answer: (c) Nephew

B and D are cousin brothers. A is the father of B and the uncle of C, who is the sister of D. C's mother is married to E, who is the brother of A.

1) B and D are cousin brothers.

2) A is the father of B and the uncle of C, who is the sister of D.

Here who is used for C not B it means A is the father of B and C is the sister of D.

3) C's mother is married to E, who is the brother of A.

Here C's mother is married to E and E is the brother of A.

Family tree,

B is the nephew of C's father.

Hence, "Nephew" is the correct answer.

Q33. Answer: (a) [figure]

The logic followed here is:

1) Circle and plus sign (+) is moving up and down in each step.

2) From right corner symbols are rotating ancticlock wise in each step.

From figure A the symbol moves clock-wise direction and interchange their one corner symbol which is square and circle and get figure B, then figure B the symbol moves clock-wise direction and interchange their one corner symbol which is plus and triangle and get figure C, then figure C the symbol moves clock-wise direction and interchange their one corner symbol which is cross and circle and get figure D.

Hence, "option 1" is the correct answer.

Q34. Answer: (c) [figure]

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

Hence, "option 3" is the correct answer.

Q35. Answer: (a) pagmdw

Given :- g_ ctd_ wpmz_pctdawp_zgpct_a_pmz

By checking options and substituting accordingly.

1 - pagmdw → gpctdawpmz - gpctdawpmz - gpctdawpmz.

♦ Here gpctdawpmz is repeated.

2 - pgadmw → gpctdgwpmz - apctdawpdz - gpctmawpmz,

3 - pgdamw → gpctdgwpmz - dpctdawpaz - gpctmawpmz,

4 - pamgwd → gpctdawpmz - mpctdawpgz - gpctwadpmz,

♦ Option (1) gives a pattern of gpctdawpmz - gpctdawpmz - gpctdawpmz.

Hence, "option 1" is the correct answer.

Q36. Answer: (a) 26 : 37

The logic followed here is:

10 : 17

$3^2 + 1 = 10 : 4^2 + 1 = 17$

Similarly,

26 : 37

$5^2 + 1 = 26 : 6^2 + 1 = 37$

Hence, the correct answer is "26 : 37"

Q37. Answer: (b) 518

The logic followed here is:

Cube of the number and add one we get the number.

From option 1 -

$5^3 + 1 = 125 + 1 = 126$

From option 2 -

83 + 6 = 512 + 6 = 518, which is different from other three option.

So it is odd one.

From option 3 -

73 + 1 = 343 + 1 = 344

From option 4 -

113 + 1 = 1331 + 1 = 1332

Hence, "option 2" is the correct answer.

Q38. Answer: (d) 20

The number of triangles:

Thus, total triangles in the given figure = 20.

Hence, the correct answer is "20".

Shortcut Trick

The pattern followed here is:

Given Figure:

Now,

Counting the figure separately:

1. Counting the numbers of triangles.

The above figure has 8 triangles. Total triangles = 4 × 2 = 8

2. Counting the numbers of triangles.

The above figure has 6 triangles. Total triangles = 3 + 3 = 6.

Now,

Total triangles = 1 + 1 + 1 + 1 + 1 + 1 = 6

Thus, total triangles in the given figure = 8 + 6 + 6 = 20.

Hence, the correct answer is "20".

Q39. Answer: (c) Diligence

The logic followed here is:

Accident is related to carelessness. So, Accident is caused by carelessness.

Similarly,

Success is related to diligence. So, Success is caused by diligence.

Hence, "Diligence" is the correct answer.

Q40. Answer: (d) DGBZ

The logic followed here is:

In option 1, 2 and 3 we add 3 in first letter we second letter and we subtract 6 in second letter we get third letter and we subtract 2 in third letter we get fourth letter.

But in option 4 we add 3 in first letter we second letter and we subtract 5 in second letter we get third letter and we subtract 2 in third letter we get fourth letter which is different from other.

From option 1 -

From option 2 -

From option 3 -

And option 4 -

Option 4 is different from other.

Hence, "option 4" is the correct answer.

Q41. Answer: (b) [figure]

The option in which the given figure is embedded when rotation is not allowed is shown below -

Hence, "option 2" is the correct answer.

Q42. Answer: (b) Rabbit : Mammal

The logic followed here is:

• Anger is an emotion characterized by antagonism toward someone or something you feel has deliberately done you wrong.

Anger is the synonyms of angriness which is emotion. So, anger is relation to emotion.

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Similarly,

• Rabbits are mammals, which are warm blooded animals with backbones.

Rabbit born baby and feeding milk to their baby which is mammal. So, Rabbit is related to mammal.

Hence, "option 2" is the correct answer.

Q43. Answer: (b) UTJEFDOB

The logic followed here is:

PLEASANT is written as BFMQUOBT -

Similarly,

DISTANCE is written as -

Hence, "UTJEFDOB" is the correct answer.

Q44. Answer: (d) 19

There are 3 + 7 = 10 dancers are gymnasts but not dancers and gymnasts and singers and there are 9 dancers and singers but not dancers and gymnasts and singers.

So, there are 10 + 9 = 19 dancers are either gymnasts or singers but not both.

Hence, "19" is the correct answer.

Q45. Answer: (c) [figure]

The image obtained when paper is unfolded is -

Hence, "option 3" is the correct answer.

Q46. Answer: (a) {36, 42, 64}

The logic followed here is:

Square root of first number and square root of third number we get both value and add it and multiply with 3 we get second number.

{9, 21, 16}

√9 = 3, √16 = 4, (3 + 4) × 3 = 7 × 3 = 21

Similarly,

From option 1 -

{36, 42, 64}

√36 = 6, √64 = 8, (6 + 8) × 3 = 14 × 3 = 42. It is follow.

From option 2 -

{16, 32, 27}

√16 = 4, √27 = 5.9, it is not follow.

From option 3 -

{4, 20, 18}

√4 = 2, √18 = 4.242, (2 + 4.242) × 3 = 6.242 × 3 = 18.727 ≈ 20. It is not follow.

From option 4 -

{8, 60, 12}

√8 = 2.82, √12 = 3.46, (2.82 + 3.46) × 3 = 6.28 × 3 = 18.84 ≈ 60. It is not follow.

Hence, "option 1" is the correct answer.

Q47. Answer: (d) 2, 5, 4, 1, 6, 3

The logic followed is:

In this question the arrangement of the words in logical and meaningful order -

First we wake up in the morning.

Then go to the market and then buy fish.

Then cook the fish and

then fish put on the dish.

Then last we take lunch.

So correct order is Morning, Market, Fish, Cook, Dish and Lunch.

Hence, "option 4" is the correct answer.

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Q48. Answer: (c) 28

Given: PRICK is coded as 30 and MAKE is coded as 12.

The logic follows here is:

And,

Similarly,

Hence, 28 is the correct answer.

Q49. Answer: (d) 5

In this question from figure I and II we take common number is 4 and then take clockwise or anticlockwise direction and get the opposite number which are given below -

If Clockwise direction -

6 → 2

1 → 5

and 4 → 3

If anticlockwise direction -

1 → 5

6 → 2

and 4 → 3

if '1' is at the bottom then 5 is at the top.

Hence, "5" is the correct answer.

Q50. Answer: (b) 162/3%

Let the cost of fuel as 100 rupees/ litre and customer refills only 100 rupees fuel, no matter the increase or decrease in price.

Now if the cost is increased to 20% it will be

= 100 + (20 × 100) ÷ 100

= 100 + 20

= 120 rupees/ litre

So the price difference is 120 – 100 = 20 rupees/ litre

Now if the expenditure should be same so that customer will pay only 100 rupees, then he must be consuming less fuel. (i.e lesser than 1 litre.). So he will consume:-

i.e (100 rupees ÷ 120 rupees) × 1 litre= (5)/6 litre.

Reduction in quantity of fuel consumed by customer = 1 litre – (5)/6 litre= (1)/6 litre.

Therefore percentage reduction of fuel consumption by customer = (100)/6 % = (50)/3 % = 162/3%

Hence, "option 2" is the correct answer.

Q51. Answer: (a) 2980

Given:

Number = 9685

(1/4) first part = (1/3) second part = (1/6) third part

Shortcut TrickThe first number is divisible by 4 according to the question.

The option which is divisible by 4 will be the answer.

From the given options, we can see, only 2980 among

the options are divisible by 4.

Therefore First part of the number is 2980.

Alternate Method

Let first part, second part, and third part be a, b and c respectively.

=> a/4 = b/3 = c/6 = k

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

=> a + b + c = 9685

=> 4k + 3k + 6k = 9685

=> k = 745

First part = a = 745 × 4 = 2980

Therefore The first part of the number is 2980.

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Q52. Answer: (d) 8

Given:

(7x + 3)3 + (x - 2)3 + 27(2x - 5)3 = 9(7x + 3) × (x - 2) × (2x - 5)

Formula:

When,

=> a + b + c = 0

then,

=> $a^3 + b^3 + c^3 = 3abc$ or vice versa

Calculation:

=> $(7x + 3)^3 + (x - 2)^3 + 3^3(2x - 5)^3 = 3 \times (7x + 3) \times (x - 2) \times 3(2x - 5)$

a = 7x + 3, b = x - 2 and c = 3(2x - 5)

Then,

=> (7x + 3) + (x - 2) + 3(2x - 5) = 0

=> 7x + 3 + x - 2 + 6x - 15 = 0

=> 14x - 14 = 0

=> x = 1

Then,

=> 5x + 3 = 5 × 1 + 3 = 8

Therefore 5x + 3 = 8

Q53. Answer: (a) 1,900

Given:

Two discounts = 40% and 20%

Formula:

Two discounts a% and b%

Total discount = (a +b)- ab/100

Discount amount = (marked price) × (discount %)/100

Calculation:

Single discount percentage = (40 +20)- (40× 20)/100 = 52%

=> 52 = 988/marked price × 100

=> Marked price = 1900

Therefore Marked price of an article is Rs.1900.

Alternate MethodLet the MP be x.

x - [x × (100 - 40)/100 × (100 - 20)/100] = 988

=> x - [x × (60/100) × (80/100)] = 988

=> x - x × (3/5) × (4/5) = 988

=> 13x/25 = 988

=> x = (988 × 25)/13

=> x = 1900

Therefore Marked price of an article is Rs.1900.

Q54. Answer: (a) 9

Given:

=> x + y = 5

=> x2 + y2 = 17

Formula:

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

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

Calculation:

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

=> 2xy = 25 - 17 = 8

Then,

$(x - y)^2 = x^2 + y^2 - 2xy$
$= 17 - 8$
$= 9$
Therefore $(x - y)2 = 9$
Shortcut TrickPut x = 4 and y = 1, it satisfies the condition given in the question.
$(x - y)2 = (4 - 1)^2$
=> 9
Therefore (x - y)2 = 9

Q55. Answer: (c) 55

Given:
angle ACB = 66º and angle ABC = 44º
Calculation:
angle ABC + angle CBD = 180 ....(Linear angles)
angle CBD = 180º - 44º = 136º
Using angle bisector,
angle CBI = angle IBD = 136º/2 = 68º
angle ACB + angle BCE = 180º ....(Linear angles)
angle BCE = 180º - 66º = 114º
Using angle bisector,
angle BCI = angle ICE = 114º/2
angle BCI = 57º
In ΔBCI,
angle BCI + angle CBI + angle BIC = 180º
angle BIC = 180º - 68º - 57º = 55º
Therefore angle BIC = 55º
Alternate Methodangle A = 180° - (44° + 66°)
=> angle A = 70°
angle BIC = 90 - angle A/2 (Exterior angle bisector)
angle BIC = 90 - 70/2
=> 90 - 35 = 55°
Therefore angle BIC = 55º

Q56. Answer: (d) 87

Calculation:
Total qualified students from districts B = 68000 × 25/100 = 17000
Total qualified students from districts C = 68000 × 28/100 = 19040
Number of students from districts B above 22 years old = 17000 × 78/100 = 13260
Number of students from districts C above 22 yearls old = 19040 × 80/100 = 15232
Therefore Require percentage = 13260/15232 × 100 = 87.05%
Alternate MethodWe do not need the real number to calculate it.
From District B, the number of students above 22 years old
=> 78% of 25%
From district C, the number of students above 22 years old
=> 80% of 28%
The required percentage =
[(78 × 25)/(80 × 28)] × 100
=> ≈ 87%

Q57. Answer: (c) 46.25

Given:
Total number of vehicles of company A for years 2010, 2012, 2014 and 2015 = 260 + 224 + 266 + 348 = 1098 thousands
Average number of vehicles of company A for years 2010, 2012, 2014 and 2015 = 1098/4 = 274.5 thousands

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Total number of vehicles of company B for years 2010, 2012, 2014 and 2015 = 307 + 250 + 310 + 416 = 1283 thousands
Average number of vehicles of company B for years 2010, 2012, 2014 and 2015 = 1283/4 = 320.75 thousands
Therefore Required difference = 320.75 - 274.5 = 46.25 thousands
Alternate MethodThe sum of the difference of all years
=> (307 - 260) + (250 - 224) + (310 - 266) + (416 - 348)
=> 47 + 26 + 44 + 68
=> 185
The average of the difference = 185/4 = 46.25
Therefore Required difference = 320.75 - 274.5 = 46.25 thousands

Q58. Answer: (d) 3

Given:
When an integer n is divided by 6, the remainder is 5
Formula:
Number = quotient × Divisor + remainder
Calculation:
n = quotient × 6 + 5
9n = 9(6 × quotient + 5)
= 9 × 6 × quotient + 5 × 9
= 9 × 6 × quotient + 7 × 6 + 3
= 6(9quotient + 7) + 3
Therefore 3 is the remainder if 9n is divided by 6.
Alternate MethodLet the integer be (6 + 5) = 11
Now, 9n = 9 × 11 = 99
When we divide 99 by 6 we get 16 as quotient and 3 as remainder.
Therefore 3 is the remainder if 9n is divided by 6.

Q59. Answer: (d) 81/10

Given:
? = ([1/9 ÷ 1/9of1/9] × 1/9)/(1/9 + 1/9of1/9)
Concept:
Calculation:
=> ? = ([1/9 ÷ 1/9of1/9] × 1/9)/(1/9 + 1/9of1/9)
=> ? = [[1/9 ÷ 1/81] × 1/9]/[1/9 + 1/9 × 1/9]
=> ? = [9 × 1/9]/[1/9 + 1/81]
=> ? = [1]/[10/81]
=> ? = 81/10
Therefore ? = 81/10

Q60. Answer: (d) ±5√385

Given:
(3p - 5m) = 5 and pm = 6
Formula:
=> $(a - b)^2 = a^2 + b^2 - 2ab$
=> $(a^2 - b^2) = (a - b)(a + b)$
=> $(a + b)2 = (a - b)^2 + 4ab$
Calculation:
=> $(3p + 5m)^2 = (3p - 5m)^2 + 4 \times 3p \times 5m$
=> 25 + 60 × 6
=> (3p + 5m) = ±√385
Therefore $(9p2 - 25m^2) = (3p - 5m)(3p + 5m) = ±5\sqrt{385}$

Q61. Answer: (b) 5%

Given:

SI for 9 years = 45% of P

Formula:

Let P = Principal, R = rate of interest and N = time period

SI = PNR/100

Calculation:

=> SI = P × R × 9/100

=> 9PR/100 = 45P/100

=> R = 5

Therefore Rate of interest is 5%.

Alternate MethodTopper's approach -

45% amount increases in 9 years.

5% amount increases in 1 year.

Therefore Rate of interest is 5%.

Q62. Answer: (c) π/2

Given:

$\sin^2 x - 4 \sin x + 3 = 0$

Calculation:

Let sinx = k

=> $k^2 - 4k + 3 = 0$

=> $k^2 - 3k - k + 3 = 0$

=> $k(k - 3) - 1(k - 3) = 0$

=> $(k - 1)(k - 3) = 0$

k = 1 or k = 3

Then,

=> sin x = 1

=> x = sin ^(-1)(1)

Therefore x = π/2

Q63. Answer: (c) 3 minutes and 31 seconds

Given:

Distance = 844m

Speed of cyclists = 12m/s and 8m/s

Formula Used:

Relative Speed = Speed of faster cyclist - speed of slower cyclist

Calculation:

Relative speed of two cyclists = 12 - 8 = 4 m/s

=> Time after which they will overtake = 844/4

=> 211 sec

=> 3 min and 31 sec

Therefore The time taken by P to overtake Q is 3 min 31 sec.

Q64. Answer: (d) 3,950

Given:

Average expenditure for first three months = Rs.2400

Average expenditure for five months = Rs.3500

Average expenditure for four months = Rs.4800

Formula:

Average = (Sum of terms)/Number of terms

Calculation:

Total expenditure for first three months = 2400 × 3 = Rs.7200

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Total expenditure for five months = 3500 × 5 = Rs.17500
Total expenditure for four months = 4800 × 4 = Rs.19200
Total expenditure in a year = 7200 + 17500 + 19200 = Rs.43900
Total income in a year = 439000 + 3500 = Rs.47400
Therefore Average monthly income = 47400/12 = Rs.3950
Alternate MethodTo ease the calculation, let the average expenditure per month be Rs. 3500.
Deflection in the expenditure for first 3 months
=> (2400 - 3500) × 3 = -3300
Deflection in the expenditure for the next 5 months be zero.
Deflection in the expenditure for the last four months.
=> (4800 - 3500) × 4 = 5200
The total deflection = 5200 - 3300 = 1900
Correct expenditure for 12 months = 3500 × 12 + 1900
Total income for 12 months = 42000 + 1900 + 3500(savings)
=> 47400
The average salary = 47400/12 = Rs. 3950

Q65. Answer: (c) 72.2%

Calculation:
Total number of students in graduate level in institute S = 12400 × 20/100 = 2480
Total number of students in post graduate level in institute S = 8000 × 18/100 = 1440
Therefore Required % = (2480 - 1440)/1440 × 100 = 72.2%

Q66. Answer: (b) 11,730

Given:
SP = Rs.8670
Loss% = 15%
Formula:
Profit % = (SP - CP)/CP × 100
Loss % = (CP - SP)/CP × 100
Calculation:
=> 15 = (CP - 8670)/CP × 100
=> CP = Rs.10200
Then,
=> 15 = (SP - 10200)/10200 × 100
=> SP = 11730
Therefore Selling price is Rs.11730 when profit % is 15%.
Alternate Method(100 - 15)% = 8670
=> 85% = 8670
=> 1% = 8670/85
SP on 15% profit = 115 × (8670/85)
=> Rs. 11730
Therefore Selling price is Rs.11730 when profit % is 15%.

Q67. Answer: (d) 225.6

Calculation:
Total number of vehicles manufactured by company B during 2011 to 2014 = 270 + 250 + 289 + 310 = 1119 thousand
The average number of vehicles manufactured by company B during 2011 to 2014 = 1119/4 = 279.75 thousand
Number of vehicles manufactured by company A in 2009 = 279.75 × 100/(100 + 24) = 225.60 thousand
Therefore number of vehicles manufactured by company A in 2009 is 225.60 thousand

Q68. Answer: (c) √226

Given:

tan θ = 15

Formula:

tan² θ + 1 = sec² θ

Calculation:

=> sec² θ = 225 + 1

Therefore sec θ = √226

Q69. Answer: (d) 13/5

Given:

? = fractan²60^0 - 2sin²45^0cos24^0cos37^0coses53^0cos60^0cosec66^0 + sin²60^0

Formula:

cosec(90 - a) = sec a

Calculation:

First solve denominator,

cosec 66º = cosec (90º - 24º) = sec 24º

cosec 53º = cosec (90º - 37º) = sec 37º

Then,

= cos24º.cos37º.cosec53º.cos60º.cosec66º + sin²60º

= cos24º.cos37º.sec37º.sec24º.cos60º + sin²60º

= cos60º + sin²60º

= 1/2 + 3/4

= 5/4

Numerator,

= tan²60º - 2sin²45º

= 3 - 1

= 2

Then,

=> ? = 2/(5/4)

=> ? = 8/5

Therefore [(tan260º - 2sin245º)/(cos24º.cos37º.cosec53º.cos60º.cosec66º + sin260º)] = 13/5

Q70. Answer: (c) 62/3%

Calculation:

Let number be N.

=> N × 7/5 = 7N/5

=> N × 3/2 = 3N/2

Therefore % change in result = (3N/2 - 7N/5)/3N/2 × 100 = 6.6667% = 62/3%

Shortcut TrickLet the no. be = 10

Incorrect value = 10 × 7/5 = 14

Correct value = 10 × 3/2 = 15

Ratio of correct to incorrect = 15 : 14

% change = 1/15 = 62/3%

Q71. Answer: (c) 28

Given:

A's 1 day's work = 1/7

B's 1 day's work = 1/12

Calculation:

(A + B)'s 1 day's work = 1/7 + 1/12 = 19/84

(A + B)'s 3 days work = 3 × 19/84 = 19/28

Remaining work = 1 - 19/28 = 9/28

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Number of days in which C alone can complete work = 28/9 × 9 = 28 days
Therefore C alone can complete work in 28 days.
Alternate MethodLet the total work be 84.(LCM of 7 and 12)
Efficiency of A = 84/7 = 12
Efficiency of B = 84/12 = 7
The work of A + B in 3 days = 19 × 3 = 57
Remaining work = 84 - 57 = 27
Efficiency of C = 27/9 = 3
Time required for C = 84/3 = 28 days

Q72. Answer: (d) 115 and 171

Given:
Sum of radii = 286cm
Area of concentric circles = 50336 cm^2
Formula:
Area of circle = πr^2
Calculation:
Let area of bigger circle and smaller circle be R cm and r cm respectively.
=> $\pi R^2 - \pi r^2 = 50336$
=> $R^2 - r^2 = 16016$
=> $(R - r)(R + r) = 16016$
=> $(R - r) = 56$
$(R + r) = 286$
Solving,
R = 171 cm and r = 115cm
Therefore Radius of smaller circle and bigger circle is 115cm and 171cm respectively.

Q73. Answer: (d) 14.4

Given:
Diameter of a circle = 5.6m
Formula:
Circumference of a semicircle = $\pi r + 2r$
Calculation:
Radius of semicircle = 5.6/2 = 2.8 m
Circumference of a semicircle = 22/7 × 2.8 + 2 × 2.8 = 14.4 m
Therefore Perimeter of a semicircle = 14.4 m

Q74. Answer: (d) 0.6

Given:
Perimeter of isosceles triangle = 3.6m
Formula:
a = equal side and b = unequal side
Area of isosceles triangle = $b/2 \times \sqrt{(a^2 - b^2/4)}$
Calculation:
=> b = a - 0.3
=> 3.6 = 2a + b
=> 3.6 = 2a + a - 0.3
=> a = 1.3 m
b = 1.3 - 0.3 = 1m
$h = \sqrt{(a^2 - b^2/4)} = \sqrt{(1.3^2 - 1^2/4)} = 1.2$ m
Area of triangle = bh/2
Area of isosceles triangle = 1/2 × 1 × 1.2 = 0.6 m^2
Therefore Area of an isosceles triangle is 0.6 m^2

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Q75. Answer: (a) 30

Given:

Dimensions of box = 28 × 4 × 10

Formula:

Diagonal of cuboid = $\sqrt{(l^2 + b^2 + h^2)}$

Calculation:

Diagonal of given cuboid box = $\sqrt{(28^2 + 4^2 + 10^2)} = \sqrt{(784 + 16 + 100)} = \sqrt{(800 + 100)} = \sqrt{(900)} = 30$cm

Therefore the length of the longest rod that can be fitted in a box dimensions 28 cm × 4 cm × 10 cm is 30cm.

Q76. Answer: (b) Sunlight

The correct answer is Sunlight.

Key Points

• Sunlight does NOT have an opportunity cost.

• Opportunity cost is the loss of benefit or value that would have been derived from an option that is not chosen.

• In other words, it is the profit lost when one alternative is selected over another.

• For instance, when a farmer chooses to plant wheat; the opportunity cost is planting a different crop.

• In the given case, sunlight is classified as a free good. A free good is a resource that is so abundant that its availability is not a constraint on economic activity.

• Additionally, a free good is a good with zero opportunity cost.

• This means it can be consumed in as much quantity as needed without reducing its availability to others.

• Free goods like air, water and sunshine have zero opportunity cost because their total supply exceeds total demand.

• Therefore, no sacrifice has to be made to obtain them.

Q77. Answer: (b) Chhattisgarh

The correct answer is Chhattisgarh.

Key Points

• The Barnawapara Wildlife Sanctuary is located in the Balodabazar district, Chhattisgarh.

• It is named after Bar and Nawapara forest villages.

• River Balamdehi forms the western boundary and Jonk River forms the north-eastern boundary of the Sanctuary.

• The well-stocked forests of the sanctuary are classified as teas, sal and mixed forests.

• This sanctuary is famous for the frequent sighting of the Indian bison (Gaur) Cheetal, Sambhar, Neelgai, Wild boar are commonly seen.

• Other Wildlife Sanctuaries on Chhatisgarh- Achanakmar Wildlife Sanctuary, Badalkhol Wildlife Sanctuary, Sita Nadi Sanctuary, etc.

Q78. Answer: (b) Jallikattu

The correct answer is Jallikattu.

Key Points

• Jallikattu movie was selected as India's official entry to the Oscars 2021.

• Jallikattu is a Malayalam film directed by Lijo Jose Pellissery.

• It was supposed to compete in the Best International Feature Film category. However, it didn't make it to the final nomination.

• The plot of the movie follows a bull that escapes from a slaughterhouse in a hilly remote village and the entire village men gathering to hunt down the animal.

• Lijo received the Best Director trophy at the 50th International Film Festival of India.

Additional Information

• The Academy Awards, popularly known as the Oscars, are annually given by the Academy of Motion Picture Arts and Sciences (AMPAS).

• These awards are international recognition of excellence in cinematic achievements.

Q79. Answer: (b) Mumbai Indians

The correct answer is Mumbai Indians.

Key Points

• Mumbai Indians won the IPL 2020 trophy.

• Rohit Sharma is the current captain of Mumbai Indians.

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• The Indian Premier League was founded by the Board of Control for Cricket in India (BCCI) in 2007.

• It played in a 20 overs format.

• The current IPL title holders are the Chennai Super Kings, who won the 2021 season.

Additional Information

• IPL 2020 was the thirteenth season of the IPL.

• The tournament was originally scheduled to commence on 29 March 2020 but was suspended due to the COVID-19 pandemic.

• Defending champions Mumbai Indians successfully retained their title with a five-wicket win over Delhi Capitals in the final match.

• Most runs in the series- KL Rahul

• Most wickets in the series-Kagiso Rabada

• Most Valuable Player- Jofra Archer

• PAYTM Fairplay Award- Mumbai Indians

• Emerging Player of the Season- Devdutt Padikkal

Q80. Answer: (d) PARAM Siddhi-AI

The correct answer is PARAM Siddhi-AI.

Key Points

• PARAM Siddhi-AI is India's fastest supercomputer as of December 2020.

• A supercomputer is a computer with a high level of performance as compared to a general-purpose computer.

• They have been used for scientific and engineering applications that require the handling of very large databases and require a great amount of computation.

• Supercomputers perform multiple parallel processing.

• PARAM Siddhi-AI

• It is developed jointly with the support of the Department of Science and Technology (DST), Ministry of Electronics and Information Technology (MeitY) under NSM.

• It is the high-performance computing-artificial intelligence (HPC-AI) supercomputer established under National Supercomputing Mission (NSM) at C-DAC.

• It will help testing of weather forecasting packages by NCMRWF & IITM, geo exploration packages for oil and gas recovery; packages for aero design studies; computational physics and mathematical applications and even online courses for HRD.

Additional Information

• “Pratyush” is a Cray-XC40 LC [Liquid Cooled] System with a peak performance of 4,006 TFLOPS and a total system memory of 414TB. It is used in the fields of weather forecasting and climate monitoring in India.

• SAGA-220 is a supercomputer built by the Indian Space Research Organisation. It is being used by space scientists for solving complex aerospace problems.

• MIHIR" is a Cray-XC40 LC [Liquid Cooled] System with a peak performance of 2,806 TFLOPS and a total system memory of 290TB. It is used in the fields of weather forecasting and climate monitoring in India.

Q81. Answer: (c) Maharashtra

The correct answer is Maharashtra.

Key Points

• Maharashtra is ranked second in Niti Aayog's Export Preparedness Index 2020.

• The first-ever Export Preparedness Index (EPI) was launched in August 2020 and developed by NITI Aayog in partnership with the Institute for Competitiveness.

• It ranks all States and Union Territories based on their export readiness and performance.

• It is based on four pillars:

• export policy

• business environment

• export infrastructure

• export performance

• Best Performers-

1. Gujarat

2. Maharastra

3. Tamil Nadu

• Six of eight coastal states feature in the top ten rankings, indicating the presence of strong enabling and facilitating factors to

promote exports.

• In the landlocked states, Rajasthan has performed the best, followed by Telangana and Haryana.

Q82. Answer: (c) Brahmaputra

The correct answer is Brahmaputra.

Key Points

• 'Dihang' river is found under the Brahmaputra river system.

• Brahmaputra river originates under the name of Siang or Dihang, from the Chemayungdung glacier of the Kailash range near the Mansarovar lake.

• It enters India west of Sadiya town in Arunachal Pradesh.

• Tributaries: Dibang, Lohit, Siang, Burhi Dihing, Tista, and Dhansari.

Additional Information

• The Ganges river originates in the Himalaya Mountains at Gomukh, the terminus of the Gangotri Glacier. When the ice of this glacier melts, it forms the clear waters of the Bhagirathi River.

• As the Bhagirathi River flows down the Himalayas, it joins the Alaknanda River, officially forming the Ganges River.

• Indus river originates in the Tibetan Plateau near Lake Manasarovar.

• The Godavari river rises from Trimbakeshwar in the Nashik district of Maharashtra.

Q83. Answer: (a) Ministry of Communications

The correct answer is Ministry of Communications.

Key Points

• The Union Budget of India for 2020–2021 was presented by the Finance Minister, Nirmala Sitharaman on 1 February 2020.

• It was structured on the overall theme of “Ease of Living”.

• Among the top 13 ministries with the highest allocations, the highest percentage increase was observed in the Ministry of Communications (129%), followed by the Ministry of Agriculture and Farmers' Welfare (30%) and the Ministry of Home Affairs (20%).

• The Union Budget 2020 aimed-

• To achieve seamless delivery of services through Digital governance

• To improve the physical quality of life through National Infrastructure Pipeline

• Risk mitigation through Disaster Resilience

• Social security through Pension and Insurance penetration

• The three components of Aspirational India were-

• Agriculture, Irrigation and Rural Development

• Wellness, Water and Sanitation

• Education and Skills

Q84. Answer: (a) Rohinton Mistry

The correct answer is Rohinton Mistry.

Key Points

• Rohinton Mistry is the author of the book ‘A Fine Balance’.

• The book was published by McClelland and Stewart in 1995.

• The book won the Kiriyama Pacific Rim Book Prize for Fiction and the Canadian Authors Association Fiction Award.

• It was also shortlisted for the Booker Prize in 1996.

• The premise of the book is set in "an unidentified city" in India, initially in 1975 and later in 1984 during the turmoil of The Emergency.

• Other books by Rohinton Mistry- Such a long journey, Family Matters, The scream, etc.

Additional Information

• Books by Shashi Tharoor-The Paradoxical Prime Minister, Why I am a Hindu, Reasons of State, etc.

• Books by Amitav Ghosh- Sea of Poppies, The Hungry Tide, River of Smoke, etc.

• Books by Arvind Adiga- The White Tiger, Last Man in Tower, Selection Day, etc.

Q85. Answer: (d) Lala Amarnath

The correct answer is Lala Amarnath.

Key Points

• Lala Amarnath was the first Test cricket captain of an independent Indian team.
• Lala Amarnath Bharadwaj was also the first batsman to score a century for the India national cricket team in Test cricket.
• He captained India in their first Test series win against Pakistan in 1952.
• The Government of India awarded him the civilian honour of the Padma Bhushan in 1991.

Additional Information

• The International Cricket Council (ICC), the international governing body of Cricket founded in 1909, organizes various world championships and tournaments.
• There are 104 member nations.
• Headquarters of ICC - Dubai, UAE
• Motto - Cricket for good
• Chairman - Greg Barclay

Q86. Answer: (a) Khudiram Bose

The correct answer is Khudiram Bose.

Key Points

• Khudiram Bose was a revolutionary from West Bengal who participated in the freedom movement.
• He was born in 1889 in a small village in the Midnapore district, West Bengal.
• In 1905, when Bengal was partitioned, he actively participated in protests against the British.
• At the age of 15, Bose joined the Anushilan Samiti, an early 20th-century organisation that propounded revolutionary activities in Bengal.
• Within a year, he had learnt how to make bombs and would plant them in front of police stations.

Additional Information

• Balakrishnan Nair was a renowned scholar of Sree Narayana Guru's philosophical works.
• Swahid Mukunda Kakati was a martyr of India's freedom movement of 1942. He was a teenager when he was martyred.
• Puli Thevar was India's early freedom fighter. He is notable for leading a revolt against Company rule at 1757 in India.

Q87. Answer: (a) Leh

The correct answer is Leh.

Key Points

• Leh is the highest hill station in India.
• It has a cold desert climate (Köppen climate classification BWk) with long, cold winters from late November to early March
• It is the largest town of the union territory of Ladakh.
• Leh is at an altitude of 3,524 m (11,562 ft), and is connected via National Highway 1 to Srinagar in the southwest and to Manali in the south via the Leh-Manali Highway.
• Unlike other districts in India, the Ladakh Autonomous Hill Development Council (LAHDC) is in charge of governance in Leh.
• Every year Sindhu Darshan Festival is held at Shey, 15 km away from town to promote religious harmony and glory of the Indus (Sindhu) river.
• Buddhism is the largest religion in Leh, followed by over 43.8% of people.

Q88. Answer: (b) Pratihara dynasty

The correct answer is Pratihara dynasty.

Key Points

• Pratihara dynasty
• This dynasty made Kanauj (Kanyakubja) it's the capital city.
• They ruled during 8th-11th Century A.D.
• The Pratiharas were also renamed as Gurjara Pratiharas.
• The Gurjara Pratihara dynasty was founded by Nagabhata I in the Malwa region in the 8th century.
• Pratihara dynasty gained importance during the reign of Nagabhatta I, who ruled between 730- 756 C.E. He was successful against the Arabs.

Additional Information

• Sena dynasty
• The Sena Dynasty ruled from Bengal through the 11th and 12th centuries.
• During its peak, the Sena empire covered much of the northeastern region of the Indian subcontinent.
• The dynasty was founded by Samanta Sena, who was part of the Pala Empire and usurped the power when the pala empire

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began to weaken.

• He was succeeded by Vijaya Sena who strengthened the foundations of the dynasty, in his long reign of over 60 years.

• His son Ballala Sena conquered the Gaur region from Pala and became the ruler of the Bengal Delta.

• Chola dynasty

• The dynasty emerged in the 9th century AD (850-1279 AD).

• The founder of the Chola Dynasty - Vijayalaya Vijayalaya captured Tanjore in 850 AD.

• The greatest Chola ruler was Rajaraja (985-1014 AD) and Rajendra I (1014-1044 AD).

• Rajaraja built Brihadeshwara temple / Rajarajeshwara temple (attributed to Shiva) at Tanjore.

• Rajendra I defeated the Pala king Mahipala and took the title of Gangaikondachola and built a city called Gangaikondacholapuram. King Rajasimha built the Kailashnath temple at Kancheepuram.

• The last ruler of the Chola dynasty was Rajendra III.

• The Chola empire was divided into Mandalas (Province) and these were divided into Valanadu (Comissionary), Nadu (District), and Kurram (a group of villages).

• Pala dynasty

• Its founder, Gopala, was a local chieftain who rose to power in the mid-8th century during a period of anarchy.

• His successor, Dharmapala, greatly expanded the kingdom and for a while was in control of Kannauj.

Q89. Answer: (d) A bill

The correct answer is A bill.

Key Points

• A bill is a draft of a legislative proposal before the House.

• All legislative proposals have to be brought in the form of Bills before Parliament.

• A Bill is a statute in the draft and cannot become law unless it has received the approval of both the Houses of Parliament and the assent of the President of India.

• The process of lawmaking begins with the introduction of a Bill in either House of Parliament.

• A Bill can be introduced either by a Minister or a member other than a Minister.

• In the former case, it is called a Government Bill and in the latter case, it is known as a Private Member's Bill.

• A Bill undergoes three readings in each House, i.e., the Lok Sabha and the Rajya Sabha before it is submitted to the President for assent.

• After a Bill has been finally passed by the Houses of Parliament, it is submitted to the President for his assent.

• After a Bill has received the assent of the President, it becomes the law of the land.

Q90. Answer: (b) Eye

The correct answer is Eye.

Key Points

• The superior rectus is one of the extrinsic muscles of the eye.

• It is located outside the eyeball but within the orbit.

• It has a primary action of elevating the eye, causing the cornea to move superiorly.

• It belongs to a group called the extraocular muscles. This group of muscles serves to move the eyes within the orbit.

• It includes-

• superior rectus

• inferior rectus

• medial rectus

• lateral rectus

• superior oblique

• inferior oblique muscles

• The four recti muscles all arise from a connective tissue ring called the common tendinous ring (annulus of Zin).

Q91. Answer: (d) Manipur

The correct answer is Manipur.

Key Points

• 'Pena' is associated with Manipur.

• It is also the oldest musical instrument of the Meitei group of people.

• It is played in folk music, solo, in a group, or as the accompanying instrument for the Manipuri dance and at the Lai Haraoba festivals.

• It belongs to the category of chordophones and is a bowed mono-string instrument.

• The main body is called 'Penamasa' and is made out of bamboo and the bow is called 'Pena Cheijing. '

• It is attached to a coconut shell, which is the resonator and is cut in half.

Q92. Answer: (c) Chandrani Murmu

The correct answer is Chandrani Murmu.

Key Points

• Chandrani Murmu became the youngest Member of Parliament in the 17th Lok

Sabha.

• She was elected to the Lok Sabha from Keonjhar, Odisha in the 2019 Indian general election as a member of the Biju Janata Dal..

• She succeeded Sakuntala Laguri.

• Lok Sabha

• It is also known as Lower House.

• It was duly constituted for the first time on 17 April 1952.

• As per the Constitution of India, the maximum strength of the House is 552.

• Article 84 of the Indian Constitution sets qualifications for being a member of the Lok Sabha.

Additional Information

• Tejasvi Surya is an Indian politician and lawyer serving as the Member of Parliament in the 17th Lok Sabha from the Bharatiya Janata Party, representing the Bangalore South constituency.

• Gaurav Gogoi is an Indian politician of the Indian National Congress from the Indian state of Assam.

• Nusrat Jahan is elected as a Member of Parliament, Lok Sabha from Basirhat constituency as a Trinamool Congress candidate.

Q93. Answer: (d) Sutlej

The correct answer is Sutlej.

Key Points

• Sutlej river originates from the 'Rakas Lake'.

• The origin of the Sutlej River is located close to Lake Rakas tal in Tibet in the vicinity of the Kailash Mountain Range.

• The waters of the Satluj River are distributed to India according to the Indus Waters Treaty between Pakistan and India

• There are various hydroelectric power and irrigation projects over the river like the Kol Dam, Bhakra Nangal Dam, Baspa Hydroelectric Power Project, and Nathpa Jhakri Project.

Additional Information

• The Beas river rises at Rohtang Pass in the Western Himalayas.

• The Jhelum river rises from a deep spring at Vernag, in western Jammu and Kashmir.

• The Chenab is born through the confluence of two streams, namely the Chandra and Bhaga. Chandra River originates from Chandra Glacier in Spiti Valley near Chadratal Lake and Bhaga River from Suraj Tal at Baralacha Pass.

Q94. Answer: (b) The Maillard reaction

The correct answer is The Maillard reaction.

Key Points

• The Maillard reaction

• It is a chemical reaction between amino acids and reducing sugars that gives browned food its distinctive flavour.

• Like caramelization, it is a form of non-enzymatic browning.

• It takes place during the cooking of meat.

• The reactive carbonyl group of the sugar interacts with the nucleophilic amino group of the amino acid, and interesting but poorly characterized odour and flavour molecules result.

• The Gattermann reaction

• It is a chemical reaction in which aromatic compounds are formulated by a mixture of hydrogen cyanide and hydrogen chloride in the presence of a Lewis acid catalyst.

• The Swartz reaction

• It is a reaction in which alkyl fluoride are formed when alkyl bromide or chloride reacts with metal fluorides.

• The Finkelstein reaction

• It is a preparation of alkyl iodide from alkyl bromide or chloride with potassium or sodium iodide in acetone.

Q95. Answer: (a) Water that is behind a dam

The correct answer is Water that is behind a dam.

Key Points

• Gravitational Potential-

• It is the work done per unit mass in a gravitational field that is equivalent to the work done by some externally applied force to bring a massive object to that point from some defined position of zero potential.

• It is a scalar quantity.

• Gravitational potential energy is the energy an object possesses because of its position in a gravitational field.

• The water behind a hydroelectric dam stores gravitational potential energy since it is at a higher level than the water on the other side of the dam.

• As the waterfalls, this potential energy is converted into kinetic energy, which turns turbines to generate electricity.

Q96. Answer: (c) Jugal Hansraj

The correct answer is Jugal Hansraj.

Key Points

• Jugal Hansraj is the author of the book 'Cross Connection: The Big Circus Adventure'.

• Publisher: Rupa Publications

• It was published in 2017.

• The book revolves around the lives of animals.

• When the animals of the 'The Great Indian Circus found their lives all topsy-turvy, they realized that turning the world around takes a lot more than just circus acts.

• Jugal Hansraj is a feature film actor, writer and a National Award-winning film director based in Mumbai.

• He is currently the Head of Creative Development for New Projects at Dharma Productions.

Q97. Answer: (d) 1985

The correct answer is 1985.

Key Points

• In 1985, Microsoft’s Windows operating system was first introduced.

• Microsoft introduced Windows as a graphical operating system shell for MS-DOS in response to the growing interest in graphical user interfaces.

• As of October 2021, the most recent version of Windows for PCs and tablets is Windows 11, version 21H2.

• An operating system is a system software or an interface between a computer user and computer hardware. It basically to communicate with the computer.

• An operating system performs tasks like file management, memory management, process management, handling input and output, and controlling peripheral devices.

Q98. Answer: (a) Sydney 2000 Olympic Games

The correct answer is Sydney 2000 Olympic Games.

Key Points

• In Sydney 2000 Olympic Games, Karnam Malleswari became India’s first woman to win an Olympic medal.

• She is a weightlifter.

• She won the bronze medal and became India's first woman to win an Olympic medal.

• Her medal was the only medal that India secured in the 2000 Olympics.

• In 1994, she received the Arjuna Award and in 1999, she received the Rajiv Gandhi Khel Ratna award. She also won Padma Shri in 1999.

• In 1994, she won silver at the World Championships in Istanbul and in 1995 she won the Asian Weightlifting Championships in Korea in the 54 kg category.

Q99. Answer: (a) Devendra Jhajharia

The correct answer is Devendra Jhajharia.

Key Points

• Devendra Jhajharia was the first para-athlete to receive the Rajiv Gandhi Khel Ratna.

• Devendra Jhajharia is a para-athlete and javelin thrower.

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• He is the first in India to win two gold medals at Para Olympics.
• He won gold in 2004 and the 2016 Para Olympics.
• He is also the only Para Athlete to be awarded Padma Shri.

Important Points

• Rajiv Gandhi Khel Ratna Award has been renamed after hockey legend, Major Dhyan Chand.
• The prestigious award carries prize money of Rs 25 lakh.
• It also comprises a medallion, a certificate.
• The Khel Ratna award was instituted in 1991-1992 and the first recipient was Chess legend, Viswanathan Anand.

Additional Information

• Varun Singh Bhati is a para high jumper from India. He has won several medals in international events including bronze at the 2016 Summer Paralympic Games and the 2017 World Para Athletics Championships.
• Naresh Kumar Sharma is a five-time Paralympian shooter.
• Mariyappan Thangavelu is an Indian Paralympic high jumper. He represented India in the 2016 Summer Paralympics games

Q100. Answer: (c) monsoon

The correct answer is monsoon.

Key Points

• Teeyan is a festival celebrated in Punjab, which celebrates the onset of monsoon.
• It is the regional name of the festival of Teej.
• It is a dance festival performed by women in the Punjab region.
• The word meaning of “Teeyan” in Punjabi pronunciation is ‘tee-aan’, reflects the celebration of flourishing and blissful married life.
• The newly married girls come to their parental house to celebrate this festival.
• Married women receive gifts and clothes from their parents and other male relatives during the festival.

Additional Information

• The important folk dances of Punjab are:
• Bhangra
• Giddha
• Jhumar
• Dhamal
• Sammi
• Dankara
• Gatka
• Jalli

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