SSC CHSL Previous Paper 22 (Held On: 16 Oct 2020 Shift 1) (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. Direction: Given below are four jumbled sentences. Out of the given options, pick the one that gives their correct order.

A: While the most common belief is that these traits remain fixed, research studies show otherwise.

B: One such research study suggests that we can change our traits provided we want to change them.

C: We all possess certain personality traits that set us apart from the rest.

D: These traits, a mix of good and bad, define how we respond to situations and people.

(a) CBDA
(b) ACDB
(c) BCAD
(d) CDAB

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

One who cannot be defeated

(a) Cowardly
(b) Dissatisfied
(c) Invincible
(d) Inimitable

Q3. Direction: Select the INCORRECTLY spelt word.

(a) Immediate
(b) Massage
(c) Amass
(d) Messanger

Q4. Direction: Select the correct indirect form of the given sentence

The manager said, “I want you to attend the conference.”

(a) The manager said that she wanted me to attend the conference.
(b) The manager said that she want me to attend the conference.
(c) The manager told to me I am to go to attend the conference.
(d) The manager said I am wanting you to attend the conference.

Directions

Direction: 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.

Red Okra from Karnataka, Black Rice from Gujarat, Red Corn from Tamil Nadu. What you would _____ (1) _____ as exotic varieties of food today are _____ (2) _____ indigenous crops that belong to a specific region. Many such _____ (3) _____ crops have gone extinct. Many more are on the brink. But with Indian households _____ (4) _____ more conscious about healthy eating and the natural benefits of consuming local food, _____ (5) _____ is increasing among both consumers and farmers.

Q5. Select the most appropriate option for blank number 1

(a) Described
(b) Describe
(c) Describing
(d) Describes

Q6. Select the most appropriate option for blank number 2

(a) Openly
(b) Incredibly
(c) Mostly
(d) Surprisingly

Q7. Select the most appropriate option for blank number 3

(a) Global
(b) Foreign
(c) New
(d) Native

Q8. Select the most appropriate option for blank number 4

(a) have become
(b) becoming
(c) becomes
(d) became

Q9. Select the most appropriate option for blank number 5

(a) Experience
(b) Intelligence
(c) Apprehension
(d) Awareness

Q10. Select the most appropriate word to fill in the blank

You've cleared the _____ examination, haven't you?

(a) ability
(b) entrance
(c) conclusion
(d) frequent

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 improvement’.

My doctor knew that I would eventually recover and do the kind of work I would be doing before.

(a) No improvement
(b) would have been doing
(c) would have done
(d) had been doing

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

Parthian shot

(a) Parting hit
(b) Victory
(c) Praise
(d) Say goodbye

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

Soon passing out or of a short duration

(a) Fluke
(b) Frostbite
(c) Extempore
(d) Evanescent

Q14. Given below are four jumbled sentences. Out of the given options, pick the one that gives their correct order.

A. Vijay, the bus conductor, was always there in one of these trucks.

B. He had now quit his old job and joined politics.

C. In the week before the elections, trucks bumped up and down the dirty streets of Laxmangarh, full of young men holding microphones and shouting: "Stand up to the rich!"

D. That was the thing about Vijay; each time you saw him, he had done better to himself.

(a) CBAD
(b) ABCD
(c) CABD
(d) DABC

Q15. Select the correct passive form of the given sentence

My friend narrated a very interesting story at the International Storytelling Festival.

(a) A very interesting story has been narrated by my friend at the International Storytelling Festival.
(b) A very interesting story is being narrated by my friend at the International Storytelling Festival.
(c) A very interesting story was narrated by my friend at the International Storytelling Festival.
(d) A very interesting story was being narrated by my friend at the International Storytelling Festival.

Q16. Directions: Select the most appropriate ANTONYM of the given word.

Incoherent

(a) Delightful
(b) Puzzling
(c) Inconsistent
(d) Intelligible

Q17. In the given sentence, identify the segment which contains the grammatical error

According to environment activists, the demolition of unauthorized apartment complexes are became a lesson for land encroachers.

(a) are became
(b) the demolition of unauthorized apartment complexes
(c) According to
(d) for land encroachers

Q18. Select the most appropriate synonym of the given word.

Deplete

(a) Raise
(b) Reduce
(c) Increase
(d) Complete

Q19. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select ‘No improvement’.

The teacher said that all that students who did not complete the task in the given time should attempt it again.

(a) No improvement
(b) them
(c) those
(d) this

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

The student has made lodged a _____ with the police about a false video of her that is being circulated by some miscreants.

(a) complaining
(b) complain
(c) complaint
(d) complainant

Q21. Directions: Select the most appropriate ANTONYM of the given word.

OPTIONAL

(a) Original
(b) Elective
(c) Compulsory
(d) Fanciful

Q22. Directions: Select the most appropriate synonym of the given word.

DEROGATORY

(a) Lethargic
(b) Disparaging
(c) Appreciative
(d) Favourable

Q23. Select the INCORRECTLY spelt word.

(a) Jostle
(b) Illiterate
(c) Dimention
(d) Ideology

Q24. In the given sentence, identify the segment which contains the grammatical error

A Delhi bound aircraft has to make an emergency landing at Mumbai airport as a woman passenger suddenly developed a serious breathing problem.

(a) has to make
(b) a serious breathing problem
(c) suddenly developed
(d) as a woman passenger

Q25. Select the most appropriate meaning of the given idiom.

Let off the hook

(a) Not made to wait for a long time
(b) Made to pay for one's actions
(c) Not allowed to take part in an activity
(d) Allowed to escape from blame

GENERAL INTELLIGENCE

Q26. Select the number that can replace the question mark (?) in the following figure series.



(a) 11
(b) 16
(c) 14

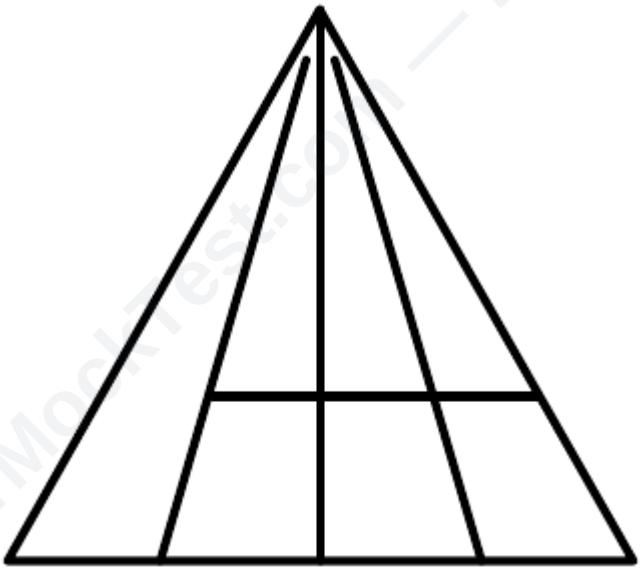
(d) 5

Q27. Select the combination of letters that when sequentially placed from left to right in the blanks of the given series, will complete the series.

a_cd_cba_bcddc_a

(a) adcb
(b) aaba
(c) babd
(d) bdab

Q28. Find the number of triangles in the given figure.



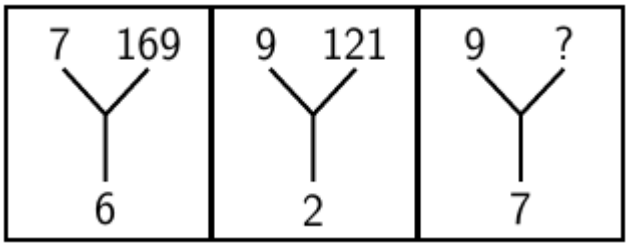
(a) 13
(b) 16
(c) 21
(d) 18

Q29. Select the letter that can replace the question mark (?) in the following series.

A, D, B, F, D, I, G, ?, k

(a) N
(b) J
(c) M
(d) E

Q30. Study the given pattern carefully and select the number than can replace the question mark (?) in it.



(a) 81
(b) 256
(c) 196
(d) 289

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Q31. In a certain code language, 458693 is coded as 367784. How will 742351 be coded as in that language?

(a) 655442
(b) 651442
(c) 651462
(d) 863442

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

215 : 125 :: 415 : ?

(a) 250
(b) 625
(c) 145
(d) 154

Q33. Select the number that can replace the question mark (?) in the following series.

5, 5, 15, 75, 525, ?

(a) 2625
(b) 1050
(c) 4725
(d) 1575

Q34. Arrange the following words in a logical and meaningful sequence.

1. Quintal
2. Kilo gram
3. Gram
4. Mili Gram
5. Ton

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

Q35. In a family, Mr. and Mrs. Gajanan have five daughters and each daughter has one brother. How many persons are there in the family?

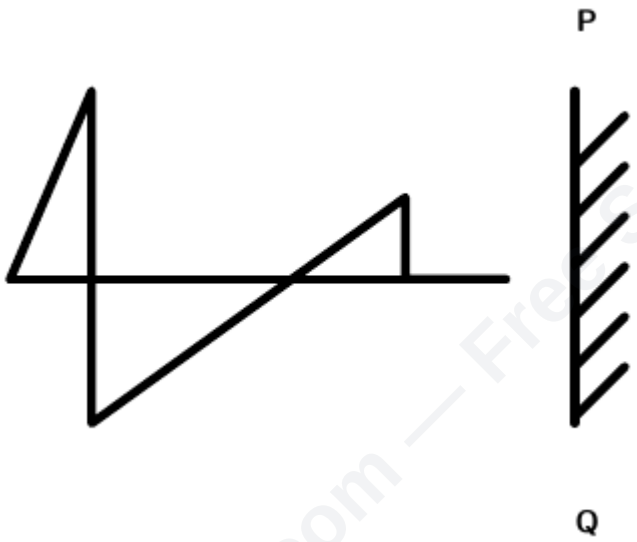
(a) 6
(b) 5
(c) 9
(d) 8

Q36. Four pairs of letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

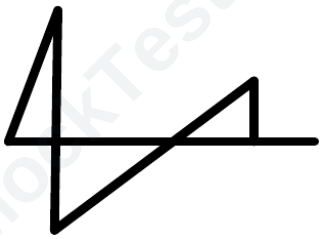
(a) LICK : ILCK
(b) FIRU : RIUF
(c) KITE : TIEK
(d) MANY : NAYM

Q37. If a mirror is placed on line PQ in the question figure, then which of the answer figures is the correct mirror image of the question figure?

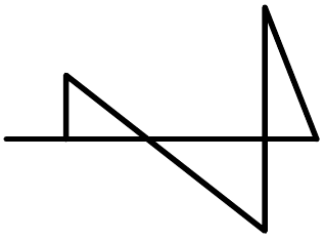
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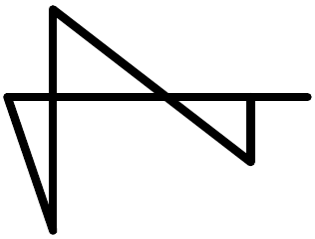
(a)



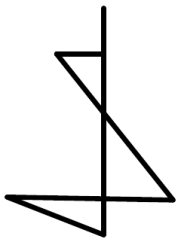
(b)



(c)



(d)



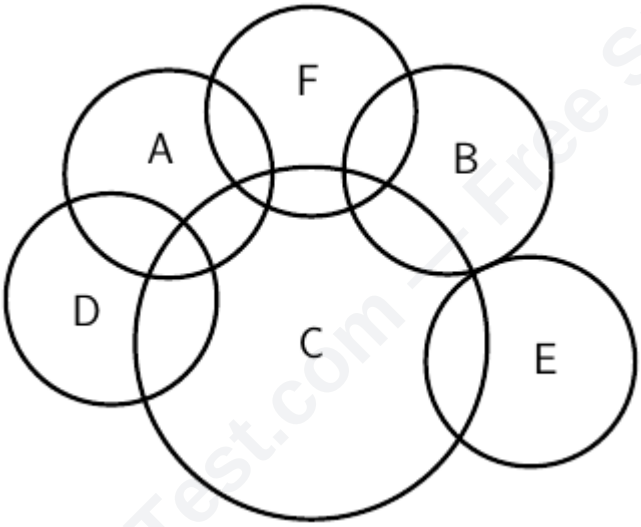
Q38. Four numbers have been given, out of which three are alike in some manner and one is different. Select the number that is different from the rest.

(a) 1728
(b) 2307
(c) 2197

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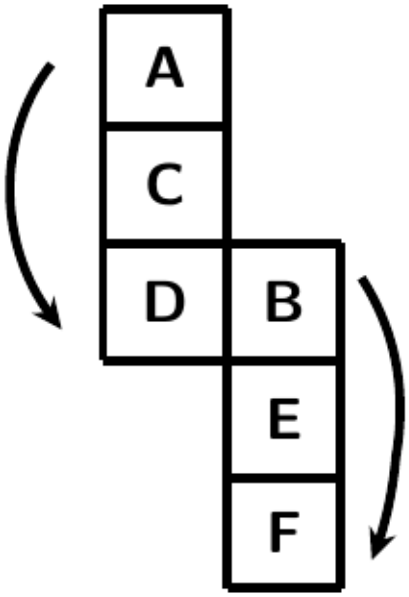
(d) 1331

Q39. In the given Venn diagram, different animals are represented by different areas. 'A' denotes 'dogs', 'B' denotes 'cats', 'C' denotes 'fish', 'D' denotes 'mongooses, 'E' denotes 'rats', and 'F' denotes 'rabbits'. Which area represents the group of only dogs, fishes, and mongooses?



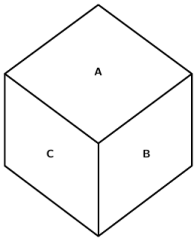
(a) Intersection of A, F and C
(b) Intersection of D, A and C
(c) Intersection of C, F and B
(d) Intersection of B, C and E

Q40. Select the answer figure that can be formed by folding the given sheet along the lines.

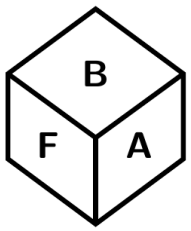


A will be opposite of D
B will be opposite of F
C will be opposite of E

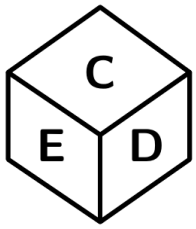
(a)



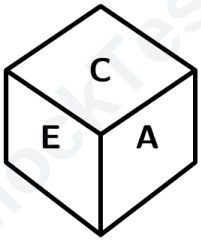
(b)



(c)



(d)



Q41. Select the option that is related to the third term in the same way as the second term is related to the first term.

KLEN : EKNL :: GHIS : ?

(a) IHGS
(b) IGHS
(c) IGSH
(d) IHSG

Q42. In a certain code language, NEPOLIAN is written as MCQQKGBP. How will MOHANDEV will be written as in than language?

(a) LMICMBXF
(b) NQGCLBFX
(c) NQICMBFX
(d) LMICMBFX

Q43. When Laxmi saw Mahesh, she said, "He is the son of the father-in-law of the father of my daughter". How is Mahesh related to Laxmi?

(a) Maternal uncle
(b) Son
(c) Nephew
(d) Brother

Q44. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

1. All squares are rectangles.

2. All rectangles are polygons.

Conclusions:

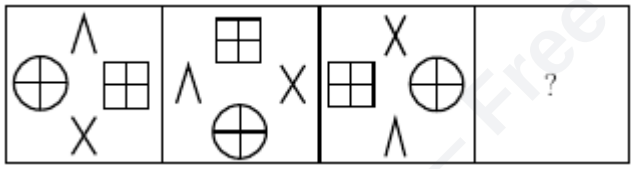
I. Square is not a polygon.

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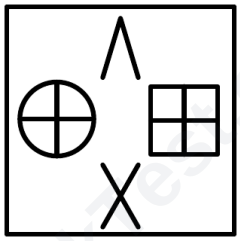
II. Square is both rectangle and polygon.

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

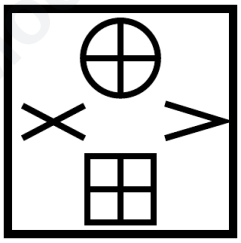
Q45. Select the answer figure than can replace the question mark (?) in the following question figure.



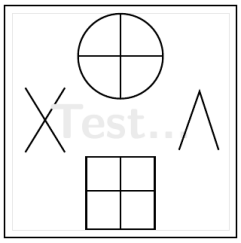
(a)



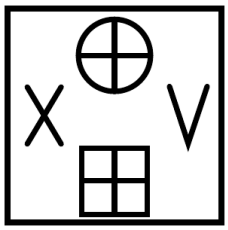
(b)



(c)



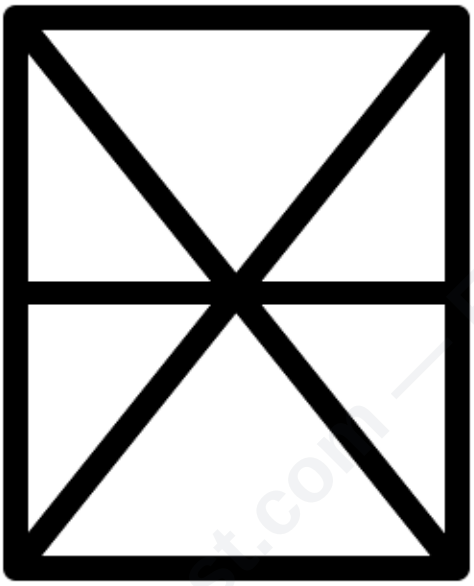
(d)



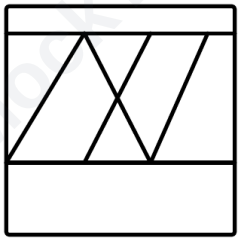
Q46. Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.

(a) Dining Table
(b) Study Table
(c) Water Filter
(d) Wardrobe

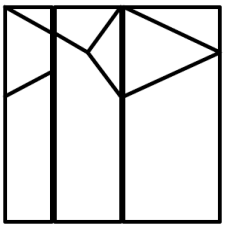
Q47. Select the answer figure in which the question figure is embedded. (Rotation is not allowed)



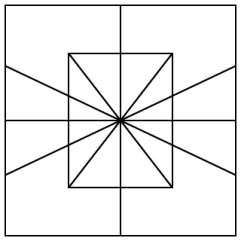
(a)



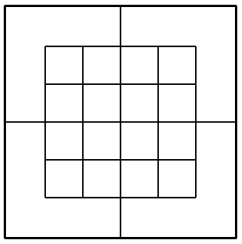
(b)



(c)



(d)



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Q48. Which two signs should be interchanged to make the given equation correct?

(580 ÷ 80) + 90 × 8 - 30 = 524

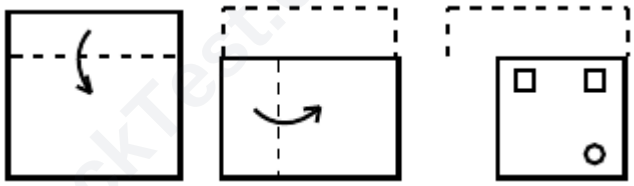
(a) ÷ and –
(b) • and ÷
(c) • and –
(d) × and +

Q49. Select the option that is related to the third word in the same way as the second word is related to the first word.

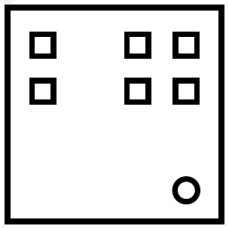
Car : Garage :: Aeroplane : ?

(a) Pilot
(b) Runway
(c) Sky
(d) Hangar

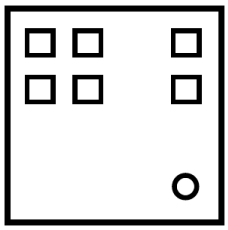
Q50. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the question figure. Select the figure from the answer figures that would most closely resemble the unfolded paper.



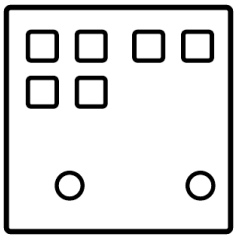
(a)



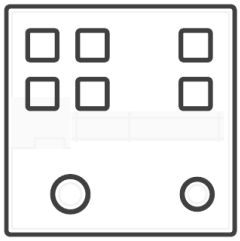
(b)



(c)



(d)



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QUANTITATIVE APTITUDE

Q51. If a + b = 8 and ab = 12, then the value of $a^3 + b^3$ is:

(a) 288
(b) 96
(c) 512
(d) 224

Q52. The proportion among three numbers is 3 : 4 : 5 and their LCM is 1800. The second number is:

(a) 150
(b) 120
(c) 30
(d) 90

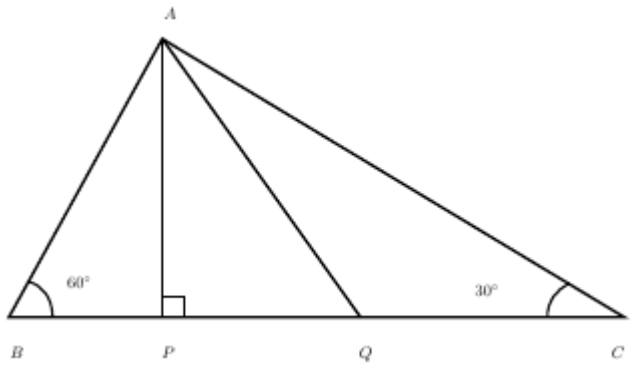
Q53. A person invested a total of Rs. 9,000 in three parts at 3%, 4% and 6% per annum on simple interest. At the end of a year, he received equal interest in all the three cases. The amount invested at 6% is:

(a) Rs. 2,000
(b) Rs. 4,000
(c) Rs. 5,000
(d) Rs. 3,000

Q54. A shopkeeper allows a discount of 20% on an article and still makes a profit of 25%. What does he pay for an article whose marked price is Rs. 800?

(a) Rs. 800
(b) Rs. 492
(c) Rs. 640
(d) Rs. 512

Q55.



In the given figure, AP is perpendicular to BC, and AQ is the bisector of angle PAC. What will be the measure of angle PAQ?

(a) 60°
(b) 50°
(c) 30°
(d) 45°

Q56. If $\text{cosec}\ \theta = (x^2+y^2)/(x^2-y^2)$, then what will be the value of $\tan\theta$?

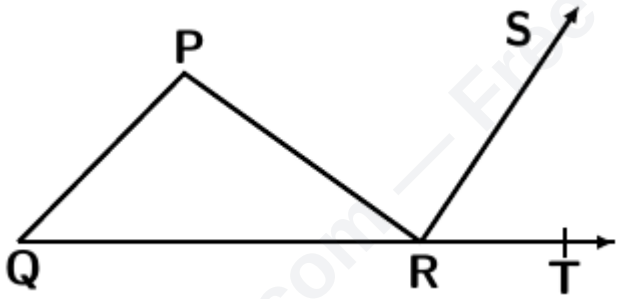
(a) $(x^2-y^2)/(x^2+y^2)$
(b) $(x^2-y^2)/2xy$
(c) $2xy/(x^2-y^2)$
(d) $(x^2+y^2)/2xy$

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Q57. If cos² θ + cos^4 θ = 1, then the value of sin θ + sin² θ is:

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

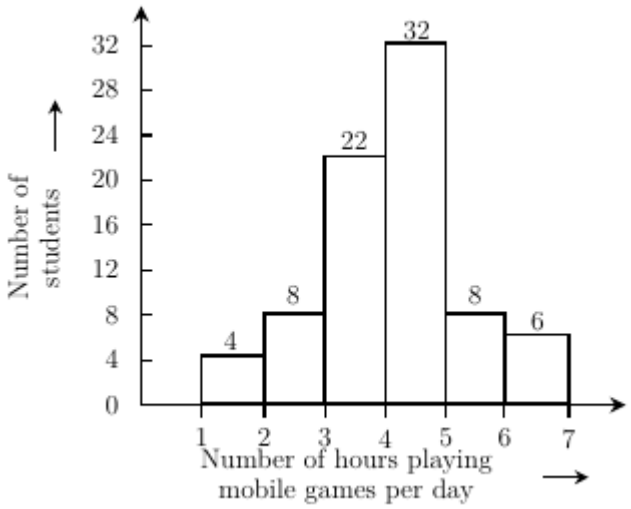
Q58.



In the given figure, PQR is a triangle in which angle P : angle Q : angle R = 3 : 2 : 1, and PR is perpendicular to RS. What will be the measure of angle TRS?

(a) 45°
(b) 60°
(c) 50°
(d) 30°

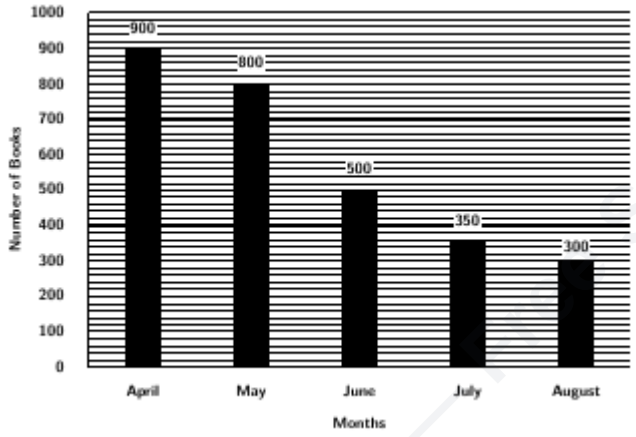
Q59. Study the graph and answer the following question.



How many students spend 5 hours or more than 5 hours in playing mobile games per day?

(a) 14
(b) 46
(c) 8
(d) 6

Q60. The following graph shows the number of books sold by a book seller during the five months of 2019, April, May, June, July, and August. Study the graph and answer the question.



The total number of books sold during these five months is:

(a) 2900
(b) 2850
(c) 2950
(d) 2800

Q61. The value of a motorcycle depreciates every year by 4%. What will be its value after 2 years, if its present value is Rs. 75,000?

(a) Rs. 69,120
(b) Rs. 70,120
(c) Rs. 69,000
(d) Rs. 72,000

Q62. In a company with 600 employees, the average age of the male employees is 42 years and that of the female employees is 41 years. If the average age of all the employees in the company is 41 years 9 months, then the number of female employees is:

(a) 150
(b) 450
(c) 350
(d) 250

Q63. If cos (A + B) = 0 and sin (A - B) = 1/2, then the value of B is: (Given 0° < A, B < 90°)

(a) 45°
(b) 90°
(c) 30°
(d) 60°

Q64. If 'a' is a natural number, then $(7a^2 + 7a)$ is always divisible by:

(a) 14 only
(b) 7 only
(c) 7 and 14 both
(d) 21 only

Q65. If x+ 1/x=4, then the value of x^4+(1/x)^4 is

(a) 14
(b) 16
(c) 194
(d) 196

Q66. If the gain is one-fifth of the selling price, then the gain percentage is:

(a) 80%
(b) 20%
(c) 16%
(d) 25%

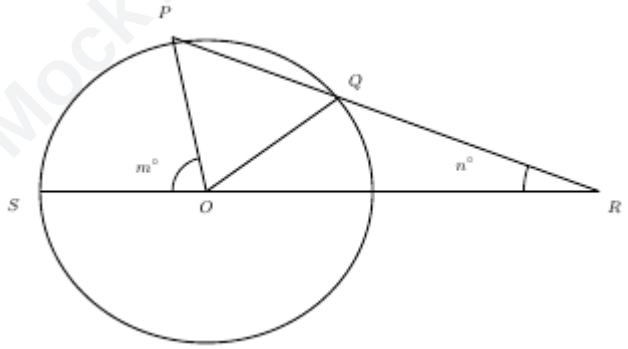
Q67. Raju can finish a piece of work in 20 days. He worked at it for 5 days and then Jakob alone finished the remaining work in 15 days. In how many days can both finish it together?

(a) 12 days
(b) 10 days
(c) 20 days
(d) 16 days

Q68. If the diameter of a circle bisects each of the two chords of the circle, then both of the chords:

(a) intersect at 60°
(b) intersect at 90°
(c) intersect at 30°
(d) are parallel to each other

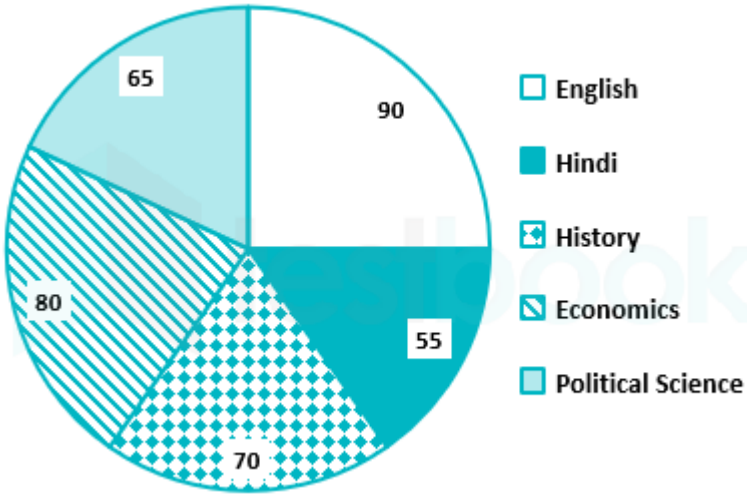
Q69.



In the given figure, if OQ = QR and O is the centre of the circle, then the value of m is:

(a) 4n°
(b) 2n°
(c) 3n°
(d) n°

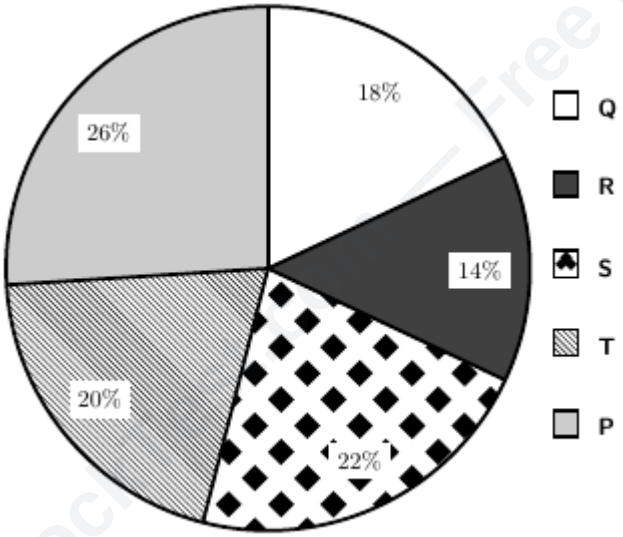
Q70. The following chart shows the marks (in degrees) scored by a student in different subjects - English, Hindi, History, Economics, and Political Science - in an examination. The total marks obtained in the examination are 600. Observe the chart and answer the question.



What is the difference between marks scored in History and marks scored in Hindi?

(a) 25
(b) 15
(c) 30
(d) 40

Q71. The following pie-chart shows the percentage-wise distribution of the number of students in five different schools P, Q, R, S and T. Total number of students in all five schools together is 8400.



The number of students in school T is what percentage of the total number of students in schools Q and S together?
(a) 55%
(b) 50%
(c) 45%
(d) 40%

Q72. The area of a square field is 7200 m^2. What is the length of its diagonal?
(a) 120 m
(b) 180 m
(c) 1800 m
(d) 60 m

Q73. A train, 150 m long, is running at 90 km/h. How long (in seconds) will it take to cross a platform that is 300 m long?
(a) 12
(b) 50
(c) 18
(d) 6

Q74. If a and b are two positive real numbers such that $4a^2 + b^2 = 20$ and $ab = 4$, then the value of $2a + b$ is:
(a) 80
(b) 8
(c) 6
(d) 5

Q75. The value of ? in $72 – 3(2 + 24 \div 4 \times 3 – 2 \times 2) + 8 = ?$ is:
(a) 32
(b) 72
(c) 36
(d) 24

GENERAL AWARENESS

Q76. With which of the following sports is Manika Batra associated?

(a) Cricket
(b) Table Tennis
(c) Badminton
(d) Gymnastics

Q77. Which of the following is not an e-commerce website?

(a) Uber
(b) Flipkart
(c) Google Maps
(d) Swiggy

Q78. In which year was the Bharat Ratna award instituted?

(a) 1950
(b) 1953
(c) 1956
(d) 1954

Q79. A force due to which moving objects (wind and water current) tend to deflect to the right in Northern hemisphere and left in Southern hemisphere is known as:

(a) Magnetic force
(b) Coriolis force
(c) Endogenic force
(d) Applied force

Q80. In which year was a separate Andhra state formed after the linguistic reorganisation of the then Madras province?

(a) 1950
(b) 1947
(c) 1956
(d) 1953

Q81. The last Mauryan ruler to be killed by Pushyamitra Shunga was:

(a) Devavarman
(b) Bindusara
(c) Brihadratha
(d) Dasharatha

Q82. How many gold medals did India win at the '1986 Asian Games' held in Seoul, South Korea?

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

Q83. _____ is a diagrammatic representation of a program logic.

(a) Process
(b) Data
(c) Flowchart
(d) Legend

Q84. The Constitution under Article _____ mandates the Election Commission, to conduct elections to the Parliament and the State Legislatures.

(a) 324
(b) 312

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(c) 330
(d) 298

Q85. Who is the author of the book 'The Blue Umbrella'?
(a) Suketu Mehta
(b) Vikram Chandra
(c) Ruskin Bond
(d) Vikram Seth

Q86. When was the Indian national song ‘Vande Mataram’ sung for the first time on a political occasion?
(a) 1896 INC session
(b) 1903 INC session
(c) 1911 INC session
(d) 1900 INC session

Q87. Who is the 47^(th)Chief Justice of India?
(a) Sharad Arvind Bobde
(b) Ranjan Gogoi
(c) NV Ramana
(d) Dipak Misra

Q88. The _____ is responsible for Earth's magnetic field.
(a) Mantle
(b) Crust
(c) Outer core
(d) Inner core

Q89. A higher _____ index represents inequality in income distribution.
(a) NDP
(b) Gini
(c) GDP
(d) CPI

Q90. 'Dhimsa' is a tribal dance form of which Indian state?
(a) Andhra Pradesh
(b) Himachal Pradesh
(c) Madhya Pradesh
(d) Arunachal Pradesh

Q91. Which river is also called 'Dihang' in India?
(a) Indus
(b) Ganges
(c) Brahmaputra
(d) Tapti

Q92. Birthplace of Guru Nanak known as Nankana Sahib today, was earlier called.
(a) Umarkot
(b) Rai Bhoi di Talvandi
(c) Roda
(d) Luni

Q93. Batholith is a type of:
(a) ocean current
(b) secondary pollutant
(c) valley

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(d) igneous rock

Q94. In which part of a plant are mesophyll cells found?

(a) Stem
(b) Seed
(c) Leaf
(d) Root

Q95. 'Disha Act' was passed by which of the following state in December 2019?

(a) Karnataka
(b) Telangana
(c) Andhra Pradesh
(d) Tamil Nadu

Q96. The GST council is headed by the:

(a) SEBI chairman
(b) Prime minister
(c) RBI governor
(d) Union finance minister

Q97. In which medium does sound travel faster?

(a) Solid
(b) Liquid
(c) Gas
(d) Vacuum

Q98. International Astronomical Union (IAU) named minor planet 2006 VP32 (number-300128) in September 2019 after a famous Indian. Who is this Indian?

(a) Pandit Jasraj
(b) Viswanathan Anand
(c) APJ Abdul Kalam
(d) Hamsa Padmanabhan

Q99. Rambir Singh Khokar received the ‘Dronacharya award’ for:

(a) Football
(b) Wrestling
(c) Kabaddi
(d) Athletics

Q100. Which is the second most abundant gas in Earth's atmosphere?

(a) Hydrogen
(b) Oxygen
(c) Nitrogen
(d) Carbon di oxide

ANSWER KEY

1	d	2	c	3	d	4	a	5	b	6	c	7	d	8	b	9	d	10	b
11	d	12	a	13	d	14	c	15	c	16	d	17	a	18	b	19	c	20	c
21	c	22	b	23	c	24	a	25	d	26	c	27	d	28	b	29	c	30	b
31	b	32	c	33	c	34	d	35	d	36	a	37	b	38	b	39	b	40	a
41	c	42	d	43	d	44	c	45	c	46	c	47	c	48	a	49	d	50	b
51	d	52	b	53	a	54	d	55	c	56	b	57	d	58	b	59	a	60	b

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61	a	62	a	63	c	64	c	65	c	66	d	67	b	68	d	69	c	70	a
71	b	72	a	73	c	74	c	75	a	76	b	77	c	78	d	79	b	80	d
81	c	82	a	83	c	84	a	85	c	86	a	87	a	88	c	89	b	90	a
91	c	92	b	93	d	94	c	95	c	96	d	97	a	98	a	99	c	100	b

SOLUTIONS

Q1. Answer: (d) CDAB

The correct answer is "CDAB".

Key Points

• While arranging the parts of the sentence given in options, we have to find some grammatical or contextual connections between them, so let’s find out.

• Part ‘A’ starts with the conjunction 'while'.

• Let us see some information about "While":

• "While" is not used only used to introduce adverbial clauses of time.

• In more formal usage, it is used to link or balance ideas that contrast each other:

• Part ‘B’ is providing the conclusion, and Part 'C' is directly connected to Part 'D'.

• Therefore the starting part is Part ‘C’.

• Part ‘D’ is the successor of Part 'C' with as Part 'D' is explaining about traits which are discussed in Part 'C'.

• Therefore, Part ‘D’ follows Part ‘C’.

• Part ‘A’ is giving further information about the subject.

• Therefore, Part ‘A’ follows Part ‘D’.

• Part ‘B’ is providing a conclusion to the context.

• Therefore, Part ‘B’ follows Part 'A'.

• Thus, the correct order is "CDAB".

Additional Information

• Let us see the meaning of the word "Possess"::

• Possess: have as belonging to one; own.

• Let us look at the sentence with the word "Possess"::

• I do not possess a television set.

Q2. Answer: (c) Invincible

The correct answer is "Invincible".

Key Points

• Let us see the meaning of the word "Invincible":

• Invincible: too powerful to be defeated or overcome.

• Lets us see the use of the word "Invincible" in a sentence:

• Last year the company seemed invincible but in recent weeks has begun to have problems.

Additional Information

• Now let's see the meanings of other words:

Word	Meaning
Cowardly	lacking courage.
Dissatisfied	not content or happy with something.
Inimitable	so good or unusual as to be impossible to copy; unique.

Q3. Answer: (d) Messanger

The correct answer is “Messanger”.

Key Points

• Out of all the options, the incorrectly spelt word is "Messanger".

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• Its correct spelling is "Messenger".
• Now, let us see the meaning of "Messenger".
• Messenger: a person who carries a message or is employed to carry messages.
• Hence, the correct answer is “Messenger”.

Additional Information

Let’s see the meaning of other given words:

Word	Meaning
Immediate	occurring or done at once; instant.
Massage	the rubbing and kneading of muscles and joints of the body with the hands, especially to relieve tension or pain.
Amass	gather together or accumulate over a period of time.

Confusion Points

• There can be some confusion among the words "Massage", "Amass" and "Messanger" to identify their correct spelling.
• "Massage" and "Message", both are correct words but different in meaning.
• "A mass" and "Amass" are also correct but different in meaning.
• "Messanger" is the incorrect word while "Messenger" is the correct word.

Q4. Answer: (a) The manager said that she wanted me to attend the conference.

The correct answer is "The manager said that she wanted me to attend the conference".

Key Points

• Necessary steps to form the indirect form of the given sentence are as follows:
• Omit all inverted commas or quotation marks.
• 'That' is inserted after the helping verb of the subject.
• Here, the helping verb after the subject "The manager" is "said".
• End the sentence with a full stop.
• Use pronouns appropriately.
• If the verb inside the inverted commas/quotation marks is in the present tense, change it into the corresponding past tense.
• In this question, the given Direct Speech is in 'Present Simple' Tense, so it will be changed to 'Past Simple' Tense for Indirect Speech.
• Therefore, the correct answer is "The manager said that she wanted me to attend the conference".

Additional Information

• Let us understand the meaning of "Conference":
• Conference: a formal meeting of people with a shared interest, typically one that takes place over several days.
• Example:
• An international conference on the environment was conducted.

Q5. Answer: (b) Describe

The correct answer is "Describe".

Key Points

• The passage is all about "Why India’s native crops need to be saved from extinction".
• Let's find out the usage of the words given in options:
• "Described" is in Simple Past Tense Tense of "Describe" that is used to talk about a completed action in a time before now..
• "Describe" means give a detailed account in words of and it is used after "would".
• "Describing" is the Present Continuous Tense of "Describe" that can be used to describe when an action happened or may happen.
• "Describes" is in Simple Present Tense of the verb which is used with a singular noun.

→ "What you would _____ (1) _____ as exotic varieties of food". If we try to put all the words in the blank one by one, we find that "described", "describing" and "describes" will not fit here grammatically as their meanings are not satisfying the context. So the correct answer is "describe".

Additional Information

• Let us see the meaning of the word "Extinction":

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• Extinction: the fact or process of a species, family, or another group of animals or plants becoming extinct.

• Example:

• Preventing the extinction of this unique frog will require the restoration of ponds and surrounding habitats.

Q6. Answer: (c) Mostly

The correct answer is "Mostly"

Key Points

• The passage is all about "Why India's native crops need to be saved from extinction".

• Let's find out the usage of the words given in options:

• "Openly" means without concealment, deception, or prevarication, especially where these might be expected; frankly or honestly.

• "Incredibly" means to a great degree; extremely.

• "Mostly" means as regards the greater part or number.

• "Surprisingly" means in a way that causes surprise; unexpectedly.

→ "today are _____ (2) _____ indigenous crops that belong to a specific region". If we try to put all the words in the blank one by one, we find that "openly", "incredibly" and "surprisingly" will not fit here contextually as their meanings are not satisfying the context. So the correct answer is "mostly".

Additional Information

• Let us see the meaning of the word "Indigenous":

• Indigenous: originating or occurring naturally in a particular place; native.

• Example:

• He is more indigenous even than the natives.

Q7. Answer: (d) Native

The correct answer is "Native".

Key Points

• The passage is all about "Why India's native crops need to be saved from extinction".

• Let's find out the usage of the words given in options:

• "Global" means relating to the whole world; worldwide.

• "Foreign" means of, from, in, or characteristic of a country or language other than one's own.

• "New" means produced, introduced, or discovered recently or now for the first time; not existing before.

• "Native" means a person born in a specified place or associated with a place by birth, whether subsequently resident there or not.

→ "Many such _____*(3)*_____ crops have gone extinct". If we try to put all the words in the blank one by one, we find that "global", "foreign" and "new" will not fit here contextually as their meanings are not satisfying the context. So the correct answer is "native".

Additional Information

• Let us see the meaning of the word "Extinct":

• Extinct: (of a species, family, or other groups of animals or plants) having no living members; no longer in existence.

• Example:

• Trilobites and dinosaurs are extinct.

Q8. Answer: (b) becoming

The correct answer is "Becoming".

Key Points

• The passage is all about "Why India's native crops need to be saved from extinction".

• Let's find out the usage of the words given in options:

• "Have become" is in Present Perfect Tense that is used to represent an action or situation that started in the past and continues in the present.

• "Becoming" is in Present Continuous Tense that can be used to describe when an action happened or may happen.

• "Becomes" is in Simple Present Tense to express habits, general truths, repeated actions or unchanging situations, emotions and wishes.

• "Became" is in Simple Past Tense that is used to talk about a completed action in a time before now.

→ "But with Indian households _____ (4) _____ more conscious about healthy eating and the natural benefits of consuming local food,". If we try to put all the words in the blank one by one, we find that "have become", "becomes" and "became" will not fit

here grammatically as their meanings are not satisfying the context. So the correct answer is "Becoming".

Additional Information

• Let us see the meaning of the word "Conscious":

• Conscious: aware of and responding to one's surroundings.

• Example:

• Although I was in pain, I was conscious.

Q9. Answer: (d) Awareness

The correct answer is "Awareness".

Key Points

• The passage is all about "Why India's native crops need to be saved from extinction".

• Let's find out the usage of the words given in options:

• "Experience" means practical contact with and observation of facts or events.

• "Intelligence" means the ability to acquire and apply knowledge and skills.

• "Apprehension" means anxiety or fear that something bad or unpleasant will happen.

• "Awareness" means knowledge or perception of a situation or fact.

→ *"*_____ (5) _____ is increasing among both consumers and farmers". If we try to put all the words in the blank one by one, we find that "experience", "intelligence" and "apprehension" will not fit here grammatically as their meanings are not satisfying the context. So the correct answer is "awareness".

Additional Information

• Let us see the use of the word "Experience" in a sentence:

• He had learned his lesson by painful experience.

• Let us see the use of the word "Intelligence" in a sentence:

• An eminent man of great intelligence is present with us today.

• Let us see the use of the word "Apprehension": in a sentence:

• He felt sick with apprehension.

• Let us see the use of the word "Awareness" in a sentence:

• We need to raise public awareness of the issue.

Q10. Answer: (b) entrance

The correct answer is 'entrance'.

Key Points

• The most appropriate word of the given fill in the blank is 'entrance'.

• We know that the most appropriate phrase is 'Entrance examination'. We know that the entrance examination is cleared.

• Entrance exams are the ones that we take to be accepted into a school, etc.

• Therefore, the correct answer is Option 2.

Correct Answer: You've cleared the entrance examination, haven't you?

Additional Information

• The given sentence is an example of a question tag. Some rules of the question tag as follows:

• If the verb is in the past simple we use did.

• Example: They went to the cinema, didn't they?

• When the statement contains a word with a negative meaning, the question tag needs to be positive.

• Example: They rarely eat in restaurants, do they?

• In the above example 'rarely' is a negative word. Therefore, a positive question tag will be used.

Q11. Answer: (d) had been doing

The correct answer is 'had been doing'.

Key Points

• The given sentence is grammatically incorrect.

• The correct answer is Option 4 because the doctor is assuring that the person would recover and would be able to do the work that he had been doing before/for a long time.

• The past perfect continuous tense (also known as the past perfect progressive tense) shows that an action that started in the past continued up until another time in the past. The past perfect continuous tense is constructed using had been + the verb's present participle (root + -ing).

• And we also know that 'before' used to connect earlier events to the moment of speaking or to a point of time in the past.
• Example: I introduced Tom to Olivia last night. They hadn't met before. (up to that point in the past)
• Here, in the given question 'before' is used 'to a point of time in the past.'
• Therefore, the correct answer is Option 4.

Correct Answer: My doctor knew that I would eventually recover and do the kind of word I had been doing before.

Additional Information

• The structure of Present Perfect Continuous:
• Subject+has/have+been+v1+ing+object+since/for+time.
• Example: Monika has been waiting here for two hours.

Q12. Answer: (a) Parting hit

The correct answer is 'Parting hit'.

Key Points

• The most appropriate meaning of the given idiom is 'Parting hit'.
• Parthian shot: Parting hit is another term for 'Parting hit'. The meaning of it is: a remark that you make when you are leaving so that it has a stronger effect
• Example: In a Parthian shot, the departing president is wrapping himself in a spurious mantle of civil liberty.
• By reading the above explanation we find that the correct answer is Option 1.

Correct Answer: Parting hit.

Additional Information

• The story behind the idiom 'Parthian Shot' as follows:
• The Parthian shot is a light horse military tactic made famous by the Parthians, an ancient Iranian people.
• While being in real or feigned retreat, their horse archers would turn their bodies back in full gallop to shoot at the pursuing enemy.
• The maneuver required superb equestrian skills since the rider's hands were occupied by his composite bow.
• As the stirrup had not been invented at the time of the Parthians, the rider relied solely on pressure from his legs to guide his horse.

Q13. Answer: (d) Evanescent

The correct answer is 'Evanescent'.

Key Points

• The most appropriate one-word of the given statement is 'Evanescent'.
• Let's look at the meaning and examples of the given options:

Fluke	**something good that has happened that is the result of chance instead of skill or planning**	**The first goal was just a fluke.**
Frostbite	injury to someone caused by severe cold, usually to their toes, fingers, ears, or nose, that causes permanent loss of tissue	Two of the mountain climbers were suffering from frost-bite.
Extempore	done or said without any preparation or thought	At the audition, the actors were asked to perform extempore.
Evanescent	lasting for only a short time, then disappearing quickly and being forgotten	The nervous impulse is, so to say, the sudden evanescent glow of an ember continuously black-hot.

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

Correct Answer: Evanescent.

Q14. Answer: (c) CABD

The correct answer is 'CABD.'

Key Points

• The given question is an example of Sentence Jumble.

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

• Here, in the given question Part C will be the first sentence because it is the starting of an incident. 'In the week before the elections, trucks bumped up...' the given sentence is clearly talking about an election rally. Therefore, it will be the first sentence.

• Part C is talking about the 'trucks bumped up and down...'. It is talking about 'Vijay who was a bus conductor, and he was always there'.

• Part C will be the next sentence because Part A tells us about the old job of 'VIjay' and he joined politics. Therefore, it will be the next sentence.

• Part D will come last because it concludes who 'Vijay' is.

• Therefore, the correct answer is Option 3.

Correct Answer: In the week before the elections, trucks bumped up and down the dirty streets of Laxmangarh, full of young men holding microphones and shouting: "Stand up to the rich!". Vijay, the bus conductor, was always there in one of these trucks. He had now quit his old job and joined politics. That was the thing about Vijay; each time you saw him, he had done better to himself.

Q15. Answer: (c) A very interesting story was narrated by my friend at the International Storytelling Festival.

The correct answer is 'A very interesting story was narrated by my friend at the International Storytelling Festival.'

Key Points

• The given sentence is in Active Voice. As per the given question we have to change it into Passive Voice.

• The process of transformation as follows:

• 'My friend' is the subject of the given sentence.

• The object of the given sentence is 'A very interesting story'.

• The subject will be put in place of the object and the object will be put in place of the subject.

• 'Narrated' will be changed into 'was narrated'. We know that in Active to Passive transformation second form of verb is changed into 'Was+V3'.

• Therefore, the correct answer is Option 3.

Correct Answer: A very interesting story was narrated by my friend at the International Storytelling Festival.

Additional Information

• Transformation of Infinitives:

• Subject+is/am/are/was/were/has/have/had+to+V1+Object. (Active Voice)

• Subject (objective case)+is/am/are/was/were/has/have/had+to+be+V3+by+object (Subjective case). (Passive Voice)

• Example:

• The teacher is to solve the doubt of every student.

• The doubt of every student is to be solved by the teacher.

Q16. Answer: (d) Intelligible

The correct answer is 'Intelligible'.

Key Points

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

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

Incoherent	**expressing yourself in a way that is not clear**	**He was confused and incoherent and I didn't get much sense out of him.**
Intelligible	(of speech and writing) clear enough to be understood	She was so upset when she spoke that she was hardly intelligible.
Delightful	very pleasant, attractive, or enjoyable	Our new neighbors are delightful.
Puzzling	difficult to explain or understand	It's a rather puzzling film.
Inconsistent	If a reason, idea, opinion, etc. is inconsistent, different parts of it do not agree, or it does not agree with something else	These findings are inconsistent with those of previous studies.

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

Correct Answer: Intelligible.

Q17. Answer: (a) are became

The correct answer is 'are became'.

Key Points

• The erroneous Part 'are became' should be 'has become'.

• The given sentence has two errors. Here, the present perfect tense should be used because this tense is used with work started in the part and at present just finished.

• First, 'has' should be used because the main subject of the given sentence is 'the demolition'.

• And the second error 'became' should be 'become' because with 'has' auxiliary verb 'past participle form' should be used.

• Therefore, the correct answer is Option 1.

Correct Answer: According to environment activists, the demolition of unauthorized apartment complexes has become a lesson for land encroachers.

Additional Information

• The other usage of Present Perfect Tense:

• Time Expression: If time expression is mentioned at the last of a sentence or a word like since, for, how long, whole, all, throughout, all along is mentioned then the sentence should be in present perfect.

• Example: I have worked here since I graduated from school.

Q18. Answer: (b) Reduce

The correct answer is 'Reduce'.

Key Points

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

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

Deplete	**to reduce something in size or amount, especially supplies of energy, money, etc.**	**The illness depletes the body of important vitamins.**
Reduce	to become or to make something become smaller in size, amount, degree, importance, etc.	The plane reduced speed as it approached the airport.
Raise	to lift something to a higher position	Mary Quant was the first fashion designer to raise hemlines.
Increase	to (make something) become larger in amount or size	Incidents of armed robbery have increased over the last few years.
Complete	to make whole or perfect	He only needs two more cards to complete the set.

• By reading the above explanation we find that the correct answer is Option 2.

Correct Answer: Reduce.

Q19. Answer: (c) those

The correct answer is 'those'.

Key Points

• The given sentence is grammatically incorrect. We know that here 'those' should be used.

• We use 'this' and 'that' with a singular noun.

• And we use 'these' and 'those' with a plural noun. 'These' is the plural version of 'this' and 'those' is the plural version of 'that'.

• We use ''this/these'' to refer to people and things, situations, and experiences that are close to the speaker or very close in time.

• We use that/those to refer to people and things, situations, and experiences that are more distant, either in time or physically.

• In the given sentence 'students' is plural. And the given sentence is talking about a situation that is distant in time.

• Therefore, the correct answer is Option 3.

Correct Answer: The teacher said that all those students who did not complete the tasks in the given time should attempt it again.

Q20. Answer: (c) complaint

The correct answer is 'complaint'.

Key Points

• The most appropriate word to the given fill in the blank is 'complaint'.

• We know that Complaint is the noun. Usually referred to in official terms. Basically means a grievance or issue against a person.

• Example: He filed a formal complaint about his rude behaviour in class.

• Whereas, "complain" is a verb and denotes an action done by the complaint. It means to express grievance against an issue or happening.

• And we know that after the article 'a' we should use a noun.

• Therefore, the correct answer is Option 3.

Correct Answer: complaint.

Additional Information

• We should use no article before abstract nous when it is used in a general sense.

• Example:

• The punctuality is the soul of business.

• Punctuality is the soul of business.

Q21. Answer: (c) Compulsory

The solution is in Hindi. Read it online.

Q22. Answer: (b) Disparaging

The correct answer is 'Disparaging'.

Key Points

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

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

Derogatory	**showing strong disapproval and not showing respect**	**He made some derogatory comment about her appearance.**
Lethargic	having little energy; feeling unwilling and unable to do anything	I was feeling tired and lethargic.
Disparaging	to criticize someone or something in a way that shows you do not respect or value him, her, or it	The actor's work for charity has recently been disparaged in the press as an attempt to get publicity.
Appreciative	showing that you understand how good something is, or are grateful for something	I'm very appreciative of all the support you've given me.
Favourable	showing that you like or approve of someone or something	We have had a favourable response to the plan so far.

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

Correct Answer: Disparaging.

Q23. Answer: (c) Dimention

The correct answer is 'Dimention'.

Key Points

• In the given question Option 3 is incorrectly spelt. The correct spelling is 'Dimension'.

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

Jostle	**to knock or push roughly against someone in order to move past them or get more space when you are in a crowd of people**	**Photographers jostled and shoved to get a better view of the royal couple.**

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Illiterate	unable to read and write	A surprising percentage of the population is illiterate.
Dimension	a measurement of something in a particular direction, especially its height, length, or width	Please specify the dimensions of the room.
Ideology	a set of beliefs or principles, especially one on which a political system, party, or organization is based	The people are caught between two opposing ideologies

• Therefore, the correct answer is Option 3.

Correct Answer: Dimention.

Q24. Answer: (a) has to make

The correct answer is 'has to make'.

Key Points

• The erroneous Part 'has to make' should be 'had to make'.

• We know that the given sentence is in the past tense.

• And 'Had to' is used to talk about necessity and obligation that existed in the past. 'Had to' is the past tense form of 'have to'.

• Therefore, the correct answer is Option 1.

Correct Answer: A Delhi-bound aircraft had to make an emergency landing at Mumbai airport as a woman passenger suddenly developed a serious breathing problem.

Additional Information

• The following phrases are followed by past indefinite/simple tense:

• It's high time, It's Time, It's about time, etc.

• Example: It's high time I started preparing for the exam in Hindi Literature.

Q25. Answer: (d) Allowed to escape from blame

The solution is in Hindi. Read it online.

Q26. Answer: (c) 14

The pattern followed here is:

In triangle, addition of bottom digits = center digit + topmost digit.

Example: in triangle 1:

2 + 8 = 5 + 5

also,

in triangle 2:

10 + 9 = 16 + 3

Similarly,

7 + 8 = ? + 1;

? = 15 - 1

? = 14

Hence, 14 is the correct answer.

Q27. Answer: (d) bdab

Given series:

a_cd_cba_bcddc_a

Using options:

1)

aacd / dcba / cbcd / dcba

not following any pattern

2)

aacd / acba / bbcd / dcaa

not following any pattern
3)
abcd / acba / bbcd / dcda
not following any pattern
4)
abcd / dcba / abcd / dcba
following pattern
Hence, bdab is the correct answer.

Q28. Answer: (b) 16

Concept Used:
Triangles = n× (n + 1)/2×H
Where,
n= number of small triangles
H = number of 'end to end' horizontal lines
→ In, ΔABC:
n= number of small triangles = 4
H = number of 'end to end' horizontal lines = 1 (i.e. BC)
Triangles = 4× (4 + 1)/2×1 = 10
Hence, Total triangles in ΔABC = 10
→ In, ΔAGH:
n= number of small triangles = 3
H = number of 'end to end' horizontal lines = 1 (i.e. GH)
Triangles = 3× (3 + 1)/2×1 = 6
Hence, Total triangles in ΔAGH = 6
→ Now Adding all the Δs:
Total Δs = 10 + 6 = 16
Hence, there are 16 triangles.

Q29. Answer: (c) M

There are two series simultaneously going.
Addition by 1 is done by skipping one alphabet in both up and down. The pattern is:
Hence, M will replace the question mark.

Q30. Answer: (b) 256

In the given figure top right corner has a square term.
The left corner digit + bottom digit = square root of right corner digit.
Root of 169 = 13, and 7 + 6 = 13
Similarly,
Root of 121 = 11, and 9 + 2 = 11
Also,
9 + 7 = 16, and square of 16 = 256
Hence, 256 will replace question mark

Q31. Answer: (b) 651442

In the given coded form:
The numbers are first decreasing and then increasing by 1
4 - 1 = 3
5 + 1 = 6
8 - 1 = 7
6 + 1 = 7
9 - 1 = 8
3 + 1 = 4

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Similarly,
742351 will be coded as 651442
Hence, 651442 is the coded form.

Q32. Answer: (c) 145

The number is shifted as follows:
Ist IInd IIIrd : IInd Ist IIIrd
2 1 5 = 1 2 5
Similarly,
4 1 5 = 1 4 5
Hence, 145 is the correct answer.

Q33. Answer: (c) 4725

The pattern followed here is:
5 × 1 = 5;
5 × 3 = 15;
15 × 5 = 75;
75 × 7 = 525;
525 × 9 = 4725
Hence 4725 is the correct answer.

Q34. Answer: (d) 4 - 3 - 2 - 1 - 5

The logical and meaningful order can be increasing or decreasing order.
From option it is clear that we have to do in increasing order because each option has 4 at first which is Mili Gram (smallest)
Mili Gram < Gram < Kilo Gram < Quintal < Ton
Hence, correct order is 4 - 3 - 2 - 1 - 5

Q35. Answer: (d) 8

Given:
Mr. and Mrs. Gajanan (+ 2) has five daughters (+ 5) and each daughter has one brother.
Each daughter has one brother this means if there is a boy in the family he will be the brother of all sister. So there is one brother (+ 1)
Adding all of them;
2 + 5 + 1 = 8
There are 8 people in the family.

Q36. Answer: (a) LICK : ILCK

In the given clusters:
The pattern followed here is:
First letter is at fourth place, Second letter is at 2nd place, Third letter is at first place and Fourth letter is at third place.
Option 1 is not following the pattern as its first letter is at second place and other also not at correct place.
Hence, LICK : ILCK is different from rest.

Q37. Answer: (b) [figure]

The mirror image will make right side toward left and left side toward right.
The correct mirror image will be;
Hence, Option 2 gives mirror image.

Q38. Answer: (b) 2307

In the given numbers in options all are the cube of some numbers except one;
1728 = 12^3
2307 ≠ to any cube
2197 = 13^3
1331 = 11^3
Hence, 2306 is alike from given options.

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Q39. Answer: (b) Intersection of D, A and C

Given:

'A' denotes 'dogs'

B' denotes 'cats'

'C' denotes 'fishes'

'D' denotes 'mangooses'

'E' denotes 'rats'

'F' denotes 'rabbits'.

The diagram of the shaded part for area dogs, fishes, and the mangoose are given below

Hence, the intersection of D, A and C is the correct answer.

Q40. Answer: (a) [figure]

Given:

A will be opposite of D

B will be opposite of F

C will be opposite of E

Using options:

1)

Can be formed as no alphabet is opposite to other according to the given information

2)

Can't be formed as B and F are opposite to each other according to the given information

3)

Can't be formed as C and E are opposite to each other according to the given information

4)

Can't be formed as C and E are opposite to each other according to the given information.

Hence, only Option 1 can make dice.

Q41. Answer: (c) IGSH

According to the given coded form, the pattern followed here is:

Similarly,

Hence, IGHS is the coded form.

Q42. Answer: (d) LMICMBFX

According to the English Alphabet series with positional value:

The pattern followed here is:

Similarly,

Hence, LMICMBFX is the coded language.

Q43. Answer: (d) Brother

The symbol and their meanings are as follows:

According to the given information, the family tree is as follows:

Hence, Mahesh is the brother of Laxmi.

Q44. Answer: (c) Only conclusion II follows.

Statements:

1. All squares are rectangles.

2. All rectangles are polygons.

According to the given statement, the Venn diagram is as follows.

Conclusions:

I. Square is not a polygon. (False, as all squares are rectangles and all rectangles are polygon. So all squares are polygon)

II. Square is both rectangle and polygon. (True, as all squares are rectangles and all rectangles are polygon. So all squares are polygon)

Hence, Only conclusion II follows.

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Q45. Answer: (c) [figure]

In the given pattern of figures:

The box is not moving but the images inside is moving together in anticlockwise direction

Then the completion of image will be:

Hence, option 3 is the correct answer.

Q46. Answer: (c) Water Filter

In the above options all the materials are a type of furniture, except Option 3

Water Filter is not a furniture, and hence is different from rest.

Q47. Answer: (c) [figure]

According to the given figure:

There is a square in the center having lines intersecting diagonally and centrally.

has the embedded figure.

Hence, Option 3 is the correct answer

Q48. Answer: (a) ÷ and –

Using option 1

÷ and –

(580 - 80) + 90 × 8 ÷ 30

According to BODMAS rule:

500 + 90 × 0.266

500 + 24

524 = 524

L.H.S = R.H.S

Using option 2

• and ÷

(580 + 80) ÷ 90 × 8 - 30

According to BODMAS rule:

660 ÷ 90 × 8 - 30;

7.33 × 8 - 30 ≠ 524

Using option 3

• and –

(580 ÷ 80) - 90 × 8 + 30

According to BODMAS rule:

7.25 - 90 × 8 + 30 ≠ 524

Using option 4

× and +

(580 ÷ 80) × 90 + 8 - 30

According to BODMAS rule:

7.25 × 90 + 8 - 30 ≠ 524

Hence, interchanging ÷ and – will make equation correct.

Q49. Answer: (d) Hangar

The above arrangement is given about the vehicle and its parking area.

Car parked in Garage

Similarly,

Aeroplane parked in Hangar

Hence, Hangar is the correct answer.

Q50. Answer: (b) [figure]

The unfolding of the paper will be shown below:

Hence, Option 2 is the correct unfolded pattern.

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Q51. Answer: (d) 224

Given -

a + b = 8, ab = 12

Formula used -

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

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

Solution -

a+ b = 8, ab = 12

=> $8^2 = a^2 + b^2 + 2 \times 12$

=> $a^2 + b^2 = 40$

=> $a^3 + b^3 = 8 \times (40 - 12) = 224$

Therefore $a^3 + b^3 = 224$.

Short trick -

put a = 6, b = 2 or a = 2, b = 6

=> Both satisfy the given expression.

=> $a^3 + b^3 = 6^3 + 2^3 = 216 + 8 = 224$

Therefore a3 + b3 = 224.

Shortcut TrickGo by hit and trial method

a + b = 8 and ab = 12

put a = 6 and b = 2

Therefore $a^3 + b^3 = 224$.

Q52. Answer: (b) 120

Given -

LCM = 1800

the ratio between the number = 3: 4 : 5

Solution -

Let the numbers be 3x, 4x, and 5x respectively.

=> LCM (3x, 4x, 5x) = 1800

=> 60x = 1800, x = 30

=> second number = 4x = 120

Therefore second number = 120.

Q53. Answer: (a) Rs. 2,000

Given:

principal = Rs. 9,000

Invested in three parts at 3%, 4% and 6% on simple interest

Formula used:

S.I = (principal × rate × time)/100

Calculation:

Let the amount be x, y, and z respectively.

=> s.i = (x × 3 × 1/100) = (y × 4 × 1/100) = (z × 6 × 1/100)

=> x : y : z = (1/3) : (1/4) : (1/6)

=> x : y : z = 4 : 3 : 2

So, The amount invested at 6% = (2 × 9000/9)

=> Rs. 2000

Therefore Amount invested at 6% is Rs, 2.000.

Q54. Answer: (d) Rs. 512

Given -

Marked price = Rs. 800, Profit = 25%, Discount = 20%

Formula used -

(cost price/marked price) = (100 - Discount)/(100 + profit)

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Solution -

Let the cost price be Rs. x.

=> (x/800) = (80/125)

=> x = (800 × 80)/125

=> x = Rs. 512

Therefore the cost price of the article is Rs. 512

Q55. Answer: (c) 30°

Given data:

In ΔABC,

angle ABC = 60°

angle ACB = 30°

angle BAC = 90°

AP perpendicular to BC

AQ is the angle bisector of angle PAC

=> angle PAQ = angle CAQ

Concept used:

Sum of all angles of a triangle is 180°.

Calculation:

In ΔAPC,

AP perpendicular to BC

=> angle APC = 90°

angle PCA = 30° (Given)

angle APC + angle PCA + angle CAP = 180°

=> 90° + 30° + angle CAP = 180°

=> angle CAP = (180° - 90° - 30°)

=> angle CAP = 60°

Now, angle CAP = angle PAQ + angle CAQ

=> 60° = 2angle PAQ [Because angle PAQ = angle CAQ (Given)]

=> angle PAQ = 30°

Therefore The measure of angle PAQ is 30°.

In ΔAPC,

AP perpendicular to BC

=> angle APC = 90°

angle ACP = 30°

=> angle PAC = 180° - (angle APC + angle ACP)

=> angle PAC = 180° - (90° + 30°) = 60°

AQ is the angle bisector of angle PAC

=> angle PAQ = angle CAQ

=> angle PAQ = 60°/2 = 30°

Confusion Points

In the given figure, AP is perpendicular to BC, and AQ is the bisector of angle A then,

The measure of angle PAQ = angle B - angle C over 2

Note:- But in the question, it is given that AQ is the bisector of angle PAC, not AQ is the bisector of angle A

So read the question carefully

Q56. Answer: (b) $(x^2-y^2)/2xy$

Solution:

Given data:

Cosec θ = $(x^2 + y^2)/ (x^2 - y^2)$

Concept used:

In ΔABC,

$b^2 = a^2 + c^2$

Sin A = a/b

Cos A = c/b

Tan A = a/c

Cosec A = b/a

Sec A = b/c

Cot A = c/a

Calculation:

Cosec θ = $(x^2 + y^2)/(x^2 - y^2)$

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

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

$b^2 = a^2 + c^2$

=> $(x^2 + y^2)^2 = (x^2 - y^2)^2 + c^2$

=> $c^2 = (x^4 + 2x^2y^2 + y^4) – (x^4 – 2x^2y^2 + y^4)$

=> $c^2 = 4x^2y^2$

=> c = 2xy ----(Taking square root of both the sides)

Tan θ = a/c

=> tan θ = $(x^2 - y^2)/2xy$

Therefore The value of tan θ is $(x^2 - y^2)/2xy$.

Q57. Answer: (d) 1

Solution:

Given data:

$Cos^2 θ + cos^4 θ = 1$

Concept used:

$Sin^2 θ + cos^2 θ = 1$

Calculation:

$Cos^2 θ + cos^4 θ = 1$

=> $cos^4 θ = 1 – cos^2 θ$

Because $sin^2 θ = 1 – cos^2 θ$

=> $cos^4 θ = sin^2 θ$

Taking square roots of both sides,

=> $cos^2 θ = sin θ$ ----(1)

$Sin θ + sin^2 θ$

=> $cos^2 θ + sin^2 θ$ ----(from equation 1)

=> 1

Therefore The value of $sin θ + sin^2 θ$ is 1.

Q58. Answer: (b) 60°

Solution:

Given data:

angle P : angle Q : angle R = 3 : 2 : 1

PR perpendicular to RS

=> angle PRS = 90°

Concept used:

The sum of all angles of a triangle is 180°.

Exterior angle = Sum of remaining two interior angles

=> angle PRT = angle QPR + angle PQR

Calculation:

angle P : angle Q : angle R = 3 : 2 : 1

angle P = 3x

angle Q = 2x

angle R = x

angle P + angle Q + angle R = 180°

=> 3x + 2x + x = 180°

=> 6x = 180°

=> x = 30°

=> angle P = 3 × 30°

=> 90°

=> angle Q = 2 × 30°

=> 60°

=> angle R = 1 × 30°

=> 30°

angle PRT = angle QPR + angle PQR

=> 90° + 60° ----(Because angle PRS = 90°)

=> angle PRT = 150°

angle PRT = angle PRS + angle TRS ----(Exterior angle sum)

=> 150° = 90° + angle TRS

=> angle TRS = 150° - 90°

=> angle TRS = 60°

Therefore The measure of angle TRS is 60°.

Q59. Answer: (a) 14

Solution:

Given data:

Number of students playing mobile games 1 to 2 hours = 4

Number of students playing mobile games 2 to 3 hours = 8

Number of students playing mobile games 3 to 4 hours = 22

Number of students playing mobile games 4 to 5 hours = 32

Number of students playing mobile games 5 to 6 hours = 8

Number of students playing mobile games 6 to 7 hours = 6

Calculation:

Number of students playing mobile games for 5 hours are more = 8 + 6

=> 14

Therefore 14 students spend 5 hours or more than 5 hours in playing mobile games per day.

Note :

The mentioned answer is accepted in the previous year's answer key of the test conducting agency.The interpretation of language may be ambiguous but the Answer key has the same answer marked as correct.

Q60. Answer: (b) 2850

Solution:

Given data:

The number of books sold in April 2019 = 900

The number of books sold in May 2019 = 800

The number of books sold in June 2019 = 500

The number of books sold in July 2019 = 350

The number of books sold in August 2019 = 300

Calculation:

Total number of books sold during in 5 months = 900 + 800 + 500 + 350 + 300

=> 2850

Therefore The number of books sold by book-seller during 5 months of 2019 is 2850.

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Q61. Answer: (a) Rs. 69,120

Solution:

Given data:

Present value of motorcycle = Rs. 75,000

Rate of depreciation = 4%

Time for depreciation = 2 years

Concept used:

Final value = Initial value × $[(100 – \text{Rate of depreciation})/100]^n$

Where, n = no. of years

Calculation:

Final value = Initial value × $[(100 – \text{Rate of depreciation})/100]^n$

=> $75,000 \times [(100 – 4)/100]^2$

=> $75,000 \times (96/100)^2$

=> $75,000 \times (24/25)^2$

=> $(75,000 \times 576)/625$

=> 69,120

Therefore The value of the motorcycle after 2 years will be Rs. 69,120.

Alternate MethodThe above solution can also be understood in easy language:

4% = 4/100 = 1/25

So Remaining 96% = 24/25

Let the final value be y

y = 75,000 × 24/25 × 24/25

y = 69,120

Therefore The value of the motorcycle after 2 years will be Rs. 69,120.

Q62. Answer: (a) 150

Solution:

Given data:

No. of employees in company = 600

The average age of the male employees = 42 years

The average age of the female employees = 41 years

The average age of all the employees in the company = 41 years 9 months

=> (41 + 9/12) years

=> 167/4 years

Concept used:

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

Calculation:

Let no. of male employees be x.

=> No. of female employees = 600 – x.

Sum of ages of all male employees = x × 42

=> 42x years ----(1)

Sum of ages of all male employees = (600 – x) × 41

=> (24600 – 41x) years ----(2)

Sum of ages of all employees = 42x + 24600 – 41x ----(Adding equation 1 and 2)

=> (x + 24600) years ----(3)

Sum of ages of all employees = 600 × 167/4

=> 25050 years ----(4)

Equating equations 3 and 4

=> x + 24600 = 25050

=> x = 450

=> No. of male employees = 450

=> No. of female employees = 600 – 450

=> 150

Therefore The number of female employees in the company is 150.

Alternate method:

No. of male employees: No. of female employees = 3 : 1

=> No. of male employees = 3x

=> No. of female employees = x

=> Total no. of employees = 4x

=> 4x = 600 ----(given data)

=> x = 600/4

=> x = 150

=> No. of female employees = x = 150

Therefore The number of female employees in company is 150.

Q63. Answer: (c) 30°

Solution:

Given data:

cos (A + B) = 0

sin (A – B) = 1/2

Concept used:

cos 90° = 0

sin 30° = 1/2

Calculation:

cos (A + B) = 0

=> A + B = 90° ----(1)

sin (A – B) = 1/2

=> A – B = 30° ----(2)

=> 2A = 120° ----(Adding equation 1 and 2)

=> A = 60°

Put the value of A in equation 1,

=> 60° + B = 90°

=> B = 90° - 60°

=> B = 30°

Therefore The value of B is 30°.

Q64. Answer: (c) 7 and 14 both

Solution:

Given data:

a is a natural number.

Natural numbers = 1,2,3,4,5,6,….

Calculation:

$N = (7a^2 + 7a)$

=> 7a × (a + 1)

Assume a to be the least natural number i.e. a = 1

=> N = 7 × 1 × (1 + 1)

=> N = 7 × 2

=> N = 14

=> The least value of N can be 14.

Now check the options,

1) 14 divides 14

2) 7 divides 14

3) 7 and 14 both divides 14

4) 21 does not divide 14

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Hence, option 3^(rd) is the best possible solution.
Therefore $(7a^2 + 7a)$ is always divisible by 7 and 14.

Q65. Answer: (c) 194

Given :
x+ 1/x=4
To find :
x^4+(1/x)^4
Formula used :
$(a + b)^2 = a^2 + b^2 + 2ab$
Solution :
x + (1/x) = 4
squaring both sides
$=> [x + (1/x)]^2 = 4^2$
$=> x^2 + (1/x)^2 + 2 = 16$
=> x2 + (1/x)2 = 14
squaring both sides
$=> [x2 + (1/x)^2]^2 = 14^2$
=> x^4 + (1/x^4) + 2 = 196
=> x4 + (1/x4) = 194
Therefore the value of x4 + (1/x4) is194.

Q66. Answer: (d) 25%

Given :
The gain is one-fifth of the selling price
To find :
The gain percentage
Formula used :
Cost price = selling price - gain
gain% = (gain/cost price) × 100
Solution :
Let the selling price be x
So, the gain = x/5
The cost price = x - (x/5)
=> The cost price = 4x/5 ----(1)
Gain% = [(x/5)/(4x/5)] × 100
=> Gain% = 25%
Therefore The gain percentage is 25%

Q67. Answer: (b) 10 days

Given :
Raju can finish a piece of work in 20 days
Raju worked for 5 days
Jakob finished the remaining work in 15 days
Concept used :
The efficiency of work = 1/(number of days to finish work)
Solution :
Raju worked for 5 days
So, the remaining work will be finished in 15 days by Raju
Jakob can finish the same piece of work in 20 days
The efficiency of Raju = The efficiency of Jakob
One day work of Raju = 1/20
One day work of Jakob = 1/20

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One day work working together = (1/20) + (1/20)
=> One day work working together = (1 + 1)/20
=> One day work working together = 2/20
=> One day work working together = 1/10
Therefore The number of days they both can finish work together is 10 days.

Q68. Answer: (d) are parallel to each other

Given :
A diameter bisects the two chords
To find :
The relation between the two chords
Concept used :
If the radius bisects the chord, then the radius is perpendicular to the chord
Solution :
AB and CD are two chords
PQ is a diameter with a center O
=> angle AEO = 90°
=> angle CFO = 90°
=> angle AEO + angle CFO = 90° + 90°
=> angle AEO + angle CFO = 180°
Therefore If the sum of the co-interior angle is 180° the lines are parallel to each other.

Q69. Answer: (c) 3n°

Given :
OQ = QR
angle QRO = n
angle POS = m
To find :
The value of m
Concept used :
Opposite angles of equal sides of a triangle are equal
The sum of the interior opposite angle of a triangle is equal to the exterior angle
Solution :
In Δ QOR
OQ = QR
So, angle QOR = angle QRO
=> angle QOR = angle QRO = n -----(1)
=> angle OQP = angle QOR + angle ORQ
=> angle OQP = n + n (from 1)
=> angle OQP = 2n -----(2)
In ΔOPQ
OQ = OP (radii of the same circle)
=> angle OQP = angle OPQ -----(3)
From (2) and (3)
=> angle OPQ = 2n -----(4)
In ΔPOR
=> angle POS = angle PRO + angle OPR
=> m = 2n + n
=> m = 3n
Therefore The value of m is 3n.

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Q70. Answer: (a) 25

Given :

A pie chart with central angles

Total marks obtained in the examination is 600

To find :

Difference Between marks scored in History and Hindi.

Concept used :

(the difference between the central angle/360°) × 600

Solution :

=> The central angle of marks scored in History = 70°

=> The central angle of marks scored in Hindi = 55°

=> Difference between the central angle = 70° - 55°

=> Difference between the central angle = 15°

=> Difference Between the marks scored in History and Hindi = (15°/360°) × 600

=> Difference Between the marks scored in History and Hindi = 25

Therefore The difference Between the marks scored in History and Hindi is 25.

Q71. Answer: (b) 50%

Given :

Pie chart showing the percentage-wise distribution

Percentage of the student in school T = 20%

Percentage of the student in school Q = 18%

Percentage of the student in school S = 22%

To find :

Percentage students of school T to school Q and S together

Concept used :

[(Student in school T)/(student in school Q + student in school S)] × 100

Calculation :

=> Students in school T = 20%

=> Students in school Q & S together = (18 + 20)%

=> Students in school Q & S together = 40%

=> Percentage students of school T to the school Q and S together = (20/40) × 100

=> Percentage students of school T to the school Q and S together = 50%

Therefore The percentage of student of school T to school Q and S together is 50%.

Q72. Answer: (a) 120 m

Given :

Area of square field = 7200 m^2

To find :

Diagonal of the field

Formula used :

Area of square = $(side)^2$ unit sq.

Diagonal of square = $\sqrt{2}$ × (side)

Calculation :

Let the side of the square field be x

=> $x^2 = 7200$

=> $x = 60\sqrt{2}$

=> Diagonal of square field = $60\sqrt{2} \times \sqrt{2}$

=> Diagonal of square field = 120 m

Therefore The length of the diagonal of the field is 120 m.

Q73. Answer: (c) 18

Shortcut Trick

Speed in m/s = 90 × 5/18 = 25 m/s.

Total Distance = Train length + Platform length = 150 + 300 = 450 m.

Time required = Total Distance ÷ Speed = 450 ÷ 25 = 18 sec.

Therefore The correct answer is 18 sec.

Alternate Method

Given:

Length of the Train (L1) = 150 m

Length of the Platform (L2) = 300 m

Speed of the train (S) = 90 km/h

Formula Used:

1. Speed (m/s) = Speed (km/h) × (5/18)

2. Time = Total Distance ÷ Speed

3. Total Distance = Length of Train + Length of Platform

Calculations:

=> Converting Speed into m/s:

=> Speed = 90 × (5/18) m/s

=> Speed = 5 × 5 = 25 m/s

=> Total Distance to cross the platform = 150 + 300 = 450 m

=> Time taken = 450 ÷ 25

=> Time taken = 18 seconds

Therefore, the correct answer is Option 3.

Therefore The correct answer is 18 sec.

Additional Information

Unit Conversion

To convert km/h to m/s, multiply the speed by 5/18. To convert m/s to km/h, multiply by 18/5.

Crossing Point Objects

When a train crosses a stationary point object like a pole, tree, or standing man, the distance covered is equal to the length of the train itself.

Relative Speed

If two objects move in the opposite direction, relative speed is the sum of their speeds (S1 + S2). If they move in the same direction, it is the difference (S1 − S2).

Q74. Answer: (c) 6

Shortcut TrickPut a = 2, b = 2. This satisfies the given conditions.

Now, 2a + b = 2 × 2 + 2 = 4 + 2 = 6

Traditional method:

Given :

$4a^2 + b^2 = 20$

$ab = 4$

To find :

$2a + b$

Formula used :

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

Solution :

$4a^2 + b^2 = 20$

$\Rightarrow (2a)^2 + b^2 = 20$

$\Rightarrow (2a + b)^2 - 2 \times 2a \times b = 20$

$\Rightarrow (2a + b)^2 - 4 \times 4 = 20$

$\Rightarrow (2a + b)^2 - 16 = 20$

$\Rightarrow (2a + b)^2 = 20 + 16$

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=> $(2a + b)^2 = 36$

=> $2a + b = \sqrt{36}$

=> $2a + b = 6$

Therefore the value of $2a + b$ is 6.

Q75. Answer: (a) 32

Concept Used:

Calculations:

Considering the given equation,

$72 – 3(2 + 24 \div 4 \times 3 – 2 \times 2) + 8 = ?$

=> $72 – 3(2 + 24/4 \times 3 – 2 \times 2) + 8 = ?$

=> $72 – 3(2 + 6 \times 3 – 2 \times 2) + 8 = ?$

=> $72 – 3(2 + 18 – 4) + 8 = ?$

=> $72 – 3(20 – 4) + 8 = ?$

=> $72 – 3 \times (16) + 8 = ?$

=> $72 – 48 + 8 = ?$

=> $80 – 48 = ?$

=> $32 = ?$

Therefore The value of ? is 32.

Q76. Answer: (b) Table Tennis

The correct answer is Table Tennis.

Key Points

• Manika Batra is associated with Table Tennis.

• She has been honoured with the Rajiv Gandhi Khel Ratna award in 2020.

• She has clinched the gold medal in the Commonwealth Games, 2018 in the Women's singles category.

• She won three gold medals at the 2016 South Asian Game.

Important Points

• Important Table Tennis players in India are:

• Sharath Kamal.

• Naina Jaiswal.

• Soumyajit Ghosh.

• Anthony Amalraj.

• Paulomi Ghata.

• Sathiyan Gnanasekaran.

• Neha Aggarwal.

Additional Information

• Important Cricket players in India are:

• Virat Kohli.

• Rohit Sharma.

• Jasprit Bumrah.

• Mithali Raj.

• Harmanpreet Kaur.

• Poonam Yadav.

• Important Badminton players in India are:

• P V Sindhu.

• Saina Nehwal.

• Ashwini Ponnappa

• Pullela Gopichand.

• Srikanth Kidambi.

• Parupalli Kashyap.

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• Important Gymnastics performers in India are:
• Dipa Karmakar.
• Ashish Kumar.
• Aruna Reddy.
• Bishweshwar Nandi.

Q77. Answer: (c) Google Maps

The correct answer is Google Maps.

Key Points

• Among the options, the only google map is NOT an e-commerce website.
• Google Maps is a web mapping service developed by google for route planning for traveling by foot, car, bicycle, air (in beta), and public transportation.
• The word e-commerce stands for electronic commerce or internet commerce
• The main purpose of an e-commerce website is to buying and selling of goods or services using the internet.
• It also supports the transfer of money to execute these transactions.
• It is one of the most popular ways for consumers to buy goods and services.
• The first business-to-business online shopping system was Thomson Holidays.
• Examples of e-commerce websites are:
• Flipkart.
• Amazon.
• Uber.
• Swiggy.
• eBay.
• Walmart.
• Ola.

Q78. Answer: (d) 1954

The correct answer is 1954.

Key Points

• Bharat Ratna is the highest civilian honor in India.
• Any person without distinction of race, occupation, position, or sex is eligible for these awards.
• Bharat Ratna was instituted in the year 1954.
• It is not mandatory that Bharat Ratna be awarded every year.

Additional Information

• The first three recipients of Bharat Ratna are:
• C. Rajagopalachari.
• Sarvepalli Radhakrishnan.
• C V Raman.
• Lal Bahadur Shastri was the first person to be awarded Bharat Ratna posthumously.
• There is no written provision that Bharat Ratna should be awarded to Indian citizens only.
• Khan Abdul Ghaffar Khan was the first foreigner to get Bharat Ratna.
• Indira Gandhi was the first woman to get Bharat Ratna.
• Sachin Tendulkar is the first sportsperson to get Bharat Ratna.
• Bharat Ratna was last awarded on 25 January 2019.
• The 2019 recipients of the Bharat Ratna award are:
• Nanaji Deshmukh (Posthumous).
• Bhupen Hazarika (Posthumous).
• Pranab Mukherjee.
• There is no Bharat Ratna for years 2020 to 2023.

Bharat Ratna Award in 2024

• Karpoori Thakur
• Lal Krishna Advani

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• PV Narasimha Rao
• Chaudhary Charan Singh
• MS Swaminathan

Q79. Answer: (b) Coriolis force

The correct answer is Coriolis force.

Key Points

• The force exerted by the rotation of the earth is known as the Coriolis force.
• Coriolis force deflects the wind in the right direction in the northern hemisphere and to the left in the southern hemisphere.
• The deflection of wind is more when the wind velocity is high.
• It is directly proportional to the angle of latitude.
• Coriolis force is maximum at the poles and is absent at the equator,
• The Coriolis force is zero at the equator and the wind blows perpendicular to the isobars.

Additional Information

• Magnetic force is the attraction or repulsion that arises between electrically charged particles due to their motion.
• The force which acts in the interior of the earth is called endogenic force.
• A force that is applied to an object by a person or another object is called an applied force.

Q80. Answer: (d) 1953

The correct answer is 1953.

Important Points

• Potti Sreeramulu undertook a fast unto death from 19 October 1952 demanding a separate state of Andhra Pradesh.
• Potti Sreeramulu died on 15 December 1952.
• The death of Potti Sreeramulu leads to the formation of the Andra state.
• The Prime Minister announced the formation of a separate Andhra state in December 1952.

Key Points

• The Telugu-speaking area of Andhra state was formed on 1^(st) October 1953.
• Kurnool was the capital city of the Andra state.
• T Prakasam was the first chief minister of Andra state.
• The combined Andhra Pradesh state was formed based on the gentlemen's agreement.
• Andhra State combined with the Telugu-speaking areas of the already existing Hyderabad State on 1^(st) November 1956.

Q81. Answer: (c) Brihadratha

The correct answer is Brihadratha.

Key Points

• The last Mauryan ruler Brihadratha was assassinated in 185 BC by his commander in chief Pushyamitra Shunga.
• Pushyamitra Shunga set up a kingdom in the north.
• Pushyamitra Shunga established his own Sunga dynasty.

Important Points

• The Mauryan dynasty lasted 137 years.
• Chandragupta dethroned the last Nanda ruler Dhana Nanda and occupied the Patliputra in 322 BC.
• Three important rulers of the Maurya dynasty were
• Chandragupta.
• Bindusara.
• Ashoka.
• Chandragupta Maurya was succeeded by his son Bindusara.
• Bindusara was known as Amitrochates or Amitraghata.
• Dasharatha was a grandson of Ashoka.
• Devvarman was the successor of Shalishuka Maurya and reigned for a short period of seven years.

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Q82. Answer: (a) 5

The correct answer is 5.

Important Points

• In 1986, Asian Games was held in Seoul, South Korea.
• It was the 10^(th) edition of the Asian Games.
• Seoul had previously been scheduled to host the 1970 games, but it lost the opportunity due to security issues.
• The event was officially opened by then President of South Korea Chun Doo-hwan.

Key Points

• India has won 5 gold medals at the 1986 Asian Games.
• India had bagged a total of 37 medals in the event.
• India ranked 5^(th) with 5 gold medals, 9 silver medals, and 23 bronze medals.
• Out of these 5 gold medals, 4 medals were won by P.T.Usha.
• Kartar Singh won a gold medal for India in wrestling.
• China topped the medal table with 94 gold medals.

Q83. Answer: (c) Flowchart

The correct answer is Flowchart.

Key Points

• A flowchart is a diagrammatic representation of program logic.
• A flowchart illustrates a solution model for a given problem.
• A pictorial representation of the algorithm is called a flowchart.
• It is a popular means for describing computer algorithms.
• It is mainly used in analyzing, designing, documenting, or managing a process or program in various fields.
• The first structured method for document process flow was introduced by Frank and Lillian Gilbreth.

Additional Information

• An algorithm expressed using a precise notation that can be executed by a computer is called a program.
• A program during execution is called Process.
• The collection of facts and figures are called data.

Q84. Answer: (a) 324

The correct answer is 324.

Key Points

• The election commission is a permanent and independent body established by the constitution of India.
• Article 324 of the Indian constitution mandates the election Commission, to conduct elections to the Parliament and the State Legislatures.
• It is common to both the central government and the state government.
• The Election Commission of India is not concerned with the elections to panchayats and municipalities in the state.

Important Points

• The Election Commission of India came into force on 25^(th) January 1950.
• The headquarters of the Election Commission is Nirvachan Sadan, located in New Delhi.
• The election commission consists of a chief election commissioner and two election commissioners.
• The election commissioners are appointed by the president.
• The tenure of election commissioners is 6 years or 65 years of age, whichever is earlier.
• Sukumar Sen served as the first chief election commissioner of India.

Additional Information

• Article 312 of the Constitution deals with the creation of one or more All India Services common to the Union and State.
• Article 330 of the Constitution deals with the reservation of seats in the Lok Sabha for Scheduled Castes and Scheduled Tribes.
• Article 298 of the Constitution deals with the power to carry on trade.

Q85. Answer: (c) Ruskin Bond

The correct answer is Ruskin Bond.

Key Points

• "The Blue Umbrella' is a book written by Ruskin Bond.

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• "The Blue Umbrella' was adapted into a comic by Amar Chitra Katha publications by the same name in 2012.
• Ruskin Bond is a famous Indian author of British descent.
• He was honoured with the Sahitya Academy Award in 1992.
• He was awarded the Padma Shri in 1999.
• He was honoured with the Padma Bhushan in 2014.
• Notable works of Ruskin bond are:
• Roads To Mussoorie.
• Our Trees Still Grow in Dehra.
• The Cherry Tree.
• A Flight of Pigeons.
• Too Much Trouble.
• The Blue Umbrella.
• The Panther's Moon.
Additional Information
• Notable works of Suketu Mehta are:
• This Land Is Our Land: An Immigrant's Manifesto.
• In the Violent Favelas of Brazil.
• Maximum City.
• Notable works of Vikram Chandra are:
• Sacred Games.
• Love and Longing in Bombay.
• Red Earth and Pouring Rain.
• Notable works of Vikram Seth are:
• A Suitable Boy.
• The Golden Gate.
• An Equal Music.

Q86. Answer: (a) 1896 INC session

The correct answer is the 1896 INC session.
Key Points:
• The first political occasion when 'Vande Mataram' was sung was the 1896 session of the Indian National Congress.
• The 1896 session of the Indian National Congress was held in Calcutta.
• The Calcutta session of the INC in 1896 was presided by M. Rahmathulla Sayani.
Important Points
• Vande Mataram is a Sanskrit poem written by Bankim Chandra Chatterjee.
• It was taken from Anand Math published in 1882.
• Vande Mataram was first sung by Rabindranath Tagore in 1896.
• It was adopted by the constituent assembly on 24th January 1950.
• Jadhunath Bhattacharya composed the music of Vande Mataram.
Additional Information
• N.G. Chandavarkar presided over the INC session, 1900 in Lahore.
• Shri Lalmohan Ghosh presided over the INC session, 1903 in Bombay.
• Bishan Narayan Dar presided over the INC session, 1911 in Calcutta.

Q87. Answer: (a) Sharad Arvind Bobde

The correct answer is Sharad Arvind Bobde.
Key Points
• The Chief Justice of India is the highest-ranking officer of the Indian federal judiciary.
• Sharad Arvind Bobde is appointed as the 47^(th) Chief Justice of India.
• Chief Justice of India is appointed by the President of India.
• Since 1950, it has been the practice to appoint the senior-most judge of the Supreme Court as the Chief Justice of India.
• However, this convention was broken twice.

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• In 1973 A. N. Ray was appointed as CJI superseding three senior Judges.
• Justice M.H. Beg was appointed superseding Justice H.R. Khanna in 1975.
• At present, the supreme court of India consists of 34 judges including the Chief Justice of India.
• A judge of the supreme court holds office till he attains the age of 65 years.

Additional Information

• Dipak Misra served as the 45^(th) Chief Justice of India.
• Ranjan Gogoi served as the 46^(th) Chief Justice of India.

Q88. Answer: (c) Outer core

The correct answer is outer core.

Important Points

• The interior of the earth is divided into three parts namely Crust, Mantle, and Core.
• The core is the innermost layer of the earth.
• The radius of the innermost layer(core) is about 3500 km.
• The core is made up of material constituted by nickel and iron.
• The temperature and pressure of the central core are very high.

Key Points

• The core is further subdivided into two layers called the outer core and inner core.
• The outer core of the earth is in a liquid state.
• The inner core is in solid-state
• The outer core is responsible for the earth's magnetic field.

Additional Information

• The crust is the outermost of the earth.
• It is brittle in nature.
• it the thinnest layer of Earth.
• The thickness of the crust varies under the oceanic and continental areas.
• The mantle is the second layer in the interior of the earth.
• The mantle extends from Moho’s discontinuity to a depth of 2,900 km.
• The upper portion of the mantle is called the asthenosphere.

Q89. Answer: (b) Gini

The correct answer is Gini.

Key Points

• Gini index measures the extent to which the distribution of income or consumption expenditure among individuals or households within an economy deviates from a perfectly equal distribution
• A Gini index of 0 represents perfect equality, while an index of 100 implies perfect inequality.
• A higher Gini index represents inequality in income distribution.
• As of 2011, the value for the Gini index estimated by the World Bank in India was 35.70.
• India reached a minimum value of 31.70 in 1993.

Important Points

• A Lorenz curve is used to represent income inequality or wealth inequality among countries.
• Lorenz curve was developed by Max Lorenz in 1905.
• Lorenz curve plots the cumulative percentages of total income received against the cumulative number of recipients, starting with the poorest individual or household.
• The Gini index measures the area between the Lorenz curve.

Additional Information

• GDP stands for Gross Domestic Product.
• GDP is the value of all goods and services produced within a country during a given period.
• NDP stands for Net Domestic Product.
• NDP is equal to GDP minus depreciation.
• CPI stands for Consumer Price Index.
• CPI is a measure of the aggregate price level in an economy.

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Q90. Answer: (a) Andhra Pradesh

The correct answer is Andhra Pradesh.

Key Points

• 'Dhimsa' is a tribal dance form of Andhra Pradesh.
• It is mainly performed by the Porja tribe.
• Porjas are found predominantly in the tribal areas of the Vizag district of Andhra Pradesh.
• It was originated in the Koraput district in Odisha.
• 'Dhimsa' dance is considered the official dance of Visakhapatnam.
• It is mainly performed during wedding occasions.
• Mori, Kiridi, Tudumu, Dappu, and Jodukommulu are the instruments accompanying the Dhimsa dance.

Important Points

• Important dance forms in Andhra Pradesh are:
• Lambaadi.
• Andhra Natyam.
• Kolatam.
• Vilasini Natyam.

Additional Information

• Important dance forms in Himachal Pradesh are:
• Demon.
• Cholamba Dance.
• Kayang Mala.
• Important dance forms in Madhya Pradesh are:
• Grida Dance.
• Matki dance.
• Phulpati dance.
• Important dance forms in Arunachal Pradesh are:
• Aji Lamu.
• Hiirii Khaniing.
• Pasi Kongki.

Q91. Answer: (c) Brahmaputra

The correct answer is Brahmaputra.

Key Points

• The Brahmaputra originates from the Chemayundung glacier near Manasarover lake in Tibet.
• In Arunachal Pradesh, Brahmaputra is known by the name Dihang.
• Brahmaputra enters India through the west of Sadiya town in Arunachal Pradesh.
• In Bangladesh, Brahmaputra is known by the name Jamuna.
• The Yarlung Tsangpo is the Tibetan name for the upper course of Brahmaputra.
• Most of its course lies outside India.
• It flows through countries such as India, China, and Bangladesh.
• Brahmaputra is the Indian river that occupies the maximum volume of water.
• The major tributaries of the Brahmaputra river are Tista, Lohit, Subansiri etc.

Additional Information

• The Ganges is the national river of India.
• The river Ganga is known as the Padma in Bangladesh.
• Indus is the only west-flowing Himalayan river.
• Narmada is the largest west-flowing peninsular river in India.
• Tapti is the second-largest west-flowing peninsular river in India.

Q92. Answer: (b) Rai Bhoi di Talvandi

The correct answer is Rai Bhoi di Talvandi.

Key Points

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• Guru Nanak is the founder of the Sikh religion.
• Guru Nanak was born on 15^(th) April 1469 at Rai Bhoi di Talvandi(Present day Nankana Sahib) in Pakistan.
• His birthplace is marked by Gurdwara Janam Asthan.
• He is considered the first of the ten Sikh Gurus.
• His birthday is celebrated worldwide as Guru Nanak Gurpurab worldwide.
• Guru Nanak appointed Bhai Lehna as his successor Before his death.
• Bhai Lehna came to be known as Guru Angad.
• He died on 22^(nd) September 1539.
• Gurdwara Darbar Sahib in Kartarpur is the resting place of Guru Nanak.

Q93. Answer: (d) igneous rock

The correct answer is igneous rock.

Key Points

• The batholith is a type of igneous rock.
• Batholith formed under the Earth's surface by the intrusion and solidification of magma.
• Batholith forms when magma rises into the earth's crust.
• It does not erupt onto the surface.
• It is commonly composed of rocks like granite or granodiorite.

Additional Information

• Igneous rocks are formed due to the cooling, solidification, and crystallisation of hot and molten magma.
• Igneous rocks are generally harder and granular.
• The formation of igneous rocks takes place beneath and above the surface of the earth.
• Fossils are NOT found in igneous rocks
• Examples of igneous rocks are Pumice stone, Granite, Basalt, Gabbro etc.

Q94. Answer: (c) Leaf

The correct answer is Leaf.

Key Points

• Mesophyll cells are found in the plant leaves.
• Within the leaves, the mesophyll cells have a large number of chloroplasts that are responsible for CO2 fixation.
• Mesophyll, which possesses chloroplasts and carries out photosynthesis, is made up of parenchyma.

Additional Information

• Leaf is an important part of plants.
• It helps in the synthesis of food through photosynthesis.
• In cactus leaves are modified into spines.
• Stem is the part of the plant that grows towards the light.
• Root is the descending part of the plant which developed from radicle.
• Seed is the matured ovule that contains embryonic plant, stored material, and a protective coat or coats.

Q95. Answer: (c) Andhra Pradesh

The correct answer is Andhra Pradesh.

• Disha Act is a law aimed at awarding capital punishment to the guilty in specified offences against women and to expedite trial in such cases within 21 days of committing the crime.
• Law aims at awarding capital punishment to the guilty in specified offences against women and to expedite trial in such cases within 21 days of committing the crime.
• Andhra Pradesh became the first state to enact the Disha Act.
• The Act has provisions to amend, sections 376, 376D, and 376DA, dealing with punishments in cases relating to rape and murder of a woman, awarding capital punishment to those convicted in such offences.
• The Disha Act also prescribes life imprisonment for other sexual offences against children and includes Section 354F and 354G of the Indian Penal Code (IPC).
• Andhra Pradesh government came up with the Act after the gang-rape and murder of a Hyderabad veterinarian.
• The act provides for the death sentence in case of rape and gang-rape.

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• The Disha Act was cleared by the Andhra Pradesh state Assembly on 13^(th) December 2019.

Q96. Answer: (d) Union finance minister

The correct answer is Union finance minister.

Key Points

• Goods and Services Tax Council is a constitutional body for making recommendations to the Union and State Government on issues related to Goods and Service Tax.

• GST Council is the governing body of GST with 33 members.

• The GST council is headed by the union finance minister

• The chairman of the GST council will be the union finance minister.

• Arun Jaitley was the first chairman of the GST council.

• Union finance minister Nirmala Sitharaman is the current chairman of the GST council.

Additional Information

• At present, Madhabi Puri Buch is the chairman of SEBI.

• RBI ke 26th governer Sanjay malhotra.

• Narendra Modi is the 15^(th) Prime Minister of India.

Q97. Answer: (a) Solid

The correct answer is Solid.

Key Points

• Sound waves are longitudinal mechanical waves.

• A medium is necessary for sound to travel.

• The speed of sound is different in different mediums.

• Sound travels faster in solid mediums.

• The speed of sound basically depends upon the elasticity and density of the medium.

• As the density of medium increases the speed of sound also increases.

• Speed of sound is minimum in gases.

• Sound waves cant travel through a vacuum.

• Speed of sound is independent of frequency.

• The study of sound is called acoustics.

Q98. Answer: (a) Pandit Jasraj

The correct answer is Pandit Jasraj.

Key Points

• Pandit Jasraj was an Indian classical vocalist.

• International Astronomical Union (IAU) has named minor planet 2006 VP32 (number -300128) in September 2019 after Pandit Jasraj.

• The planet is renamed as 'Panditjasraj'

• The minor planet 2006 VP32 was discovered on 11^(th) November 2006.

• The minor planet is located between Mars and Jupiter.

• Panditjasraj' minor planet has given the number 300128 in IAU's official website as his date of birth in reverse order (28/01/30).

• Pandit Jasraj has become the first Indian musician to get honoured with this unique recognition.

Additional Information

• Viswanathan Anand is an Indian chess player.

• APJ Abdul Kalam was an Indian aerospace scientist who served as the 11th President of India.

Q99. Answer: (c) Kabaddi

The correct answer is Kabaddi.

Key Points

• Rambir Singh Khokar was a former Indian Kabaddi coach.

• He trained the Indian kabaddi team for the first-ever Asian Kabaddi Championships in 1987

• He was honoured with the Dronacharya award in 2019.

• He is the fourth coach in kabaddi to receive the prestigious Dronacharya award.

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• Rambir Singh Khokhar retired from SAI in 2014.
• He trained Patna Pirates in the pro-Kabaddi League 2014 edition.

Additional Information

• Dronacharya award is given by the government of India for excellence in sports coaching.
• Dronacharya award was instituted in 1985.
• The award is named after "Guru Drona"
• Dronacharya award 2020 winners:
• Dharmendra Tiwary (Archery).
• Purushotham Rai (Athletics).
• Shiv Singh (Boxing).
• Romesh Pathania (Hockey).
• Krishan Kumar Hooda (Kabaddi).
• Vijay Bhalchandra Munishwar (Powerlifting).
• Naresh Kumar (Tennis).
• Om Parkash Dahiya (Wrestling).

Q100. Answer: (b) Oxygen

The correct answer is Oxygen.

Key Points

• Oxygen is the second most abundant gas in Earth's atmosphere.
• The air in Earth’s atmosphere is made up of approximately 21% oxygen.
• Oxygen will be almost in negligible quantity at a height of 120 km.
• Oxygen is the most abundant element on Earth's crust.
• The atmosphere is composed of gases, water vapour, and dust particles.

Additional Information

• Nitrogen is the most abundant gas in Earth's atmosphere.
• The composition of gases in Earth's atmosphere:
• Nitrogen(78.08%)
• Oxygen(20.95%)
• Argon(0.93%)
• Carbon dioxide(0.036%).
• Code to remember the composition of gases in Earth's atmosphere is NO AC(Nitrogen, Oxygen, Argon, Carbon dioxide).
• Hydrogen is the most abundant element in the universe.

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