SSC CHSL Tier-1 2021: Official Paper (Held On : 2 June 2022 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2021 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Parts of the given sentence have been given as options. One of them contains a grammatical error. Select the option that has the error.

When you have worked out this sum, you may went out to play.

(a) When you have worked out
(b) went out to play
(c) this sum
(d) you may

Q2. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Going to the weekly market / in every Tuesday / is a ritual that has been followed / by generations in my family.

(a) is a ritual that has been followed
(b) by generations in my family
(c) in every Tuesday
(d) Going to the weekly market

Q3. Select the most appropriate ANTONYM of the given word.

Despair

(a) Vile
(b) Hope
(c) Annoy
(d) Definite

Q4. Select the INCORRECTLY spelt word.

(a) Audience
(b) Comprehension
(c) Competence
(d) Attendence

Q5. Select the most appropriate ANTONYM of the given word.

Wax

(a) Wane
(b) Mourn
(c) Error
(d) Insolent

Q6. Select the most appropriate option to substitute the underline segment in the given sentence.

It was apparent that the girl was heading into a serious disaster.

(a) heading along
(b) heading for

(c) heading down
(d) heading out

Q7. Select the INCORRECTLY spelt word.
(a) kengaroo
(b) Vivacious
(c) Ambiguous
(d) Itinerary

Q8. Select the option that can be used as a one-word substitute for the underlined group of words.
He requested the bank to give him more time as at present he was unable to pay his debts.
(a) Destitute
(b) Meticulous
(c) Reckless
(d) Bankrupt

Q9. Select the most appropriate meaning of the given idiom.
Dark horse
(a) A person criticised
(b) Loved person
(c) An unexpected winner
(d) A champion

Q10. Select the option that expresses the given sentence in passive voice.
The people will make him the leader.
(a) He had been made the leader by people.
(b) He will be made the leader by the people.
(c) He was made leader by the people.
(d) People made him the leader.

Q11. Select the option that expresses the given sentence in passive voice.
I know him.
(a) I am known to him.
(b) He is known to myself.
(c) He is known to me.
(d) Let him be known to me.

Q12. Select the option that will improve the underlined part of the given sentence.
Mahatma Gandhi is undoubtedly one of the much popular authors of our times.
(a) best
(b) total
(c) most
(d) better

Q13. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
Sheela is trying for a job since last year.
(a) was trying
(b) have been trying
(c) No substitution required
(d) has been trying

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Q14. In the following passage, a word has been deleted. Read the passage carefully and select the most appropriate option to fill in the blank.

Gifting is generally taken to be the easiest act to _____, if only you have the heart to part with something in your _____.

(a) forsake, capacity
(b) perform, possession
(c) forgive, discretion
(d) observe, control

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

He is a _____ in shining armour.

(a) knit
(b) nite
(c) night
(d) knight

Q16. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. However, after studying the myths scientifically, only a simpleton would find them irrational or worthless.

B. Moreover, it is wrong to analyse myths on the yardstick of their factual accuracy as they were designed to serve a greater, deeper purpose.

C. Myths have always been regarded as a complex and intriguing aspect in human life

D. In modern scientific world, they are essentially seen as something unscientific and meaningless.

(a) DCAB
(b) DACB
(c) ACDB
(d) CDAB

Q17. Select the most appropriate meaning of the given idiom.

Be like chalk and cheese

(a) Be absolutely lonely
(b) Be absolutely rich
(c) Be absolutely deceptive
(d) Be absolutely different

Q18. Select the most appropriate ANTONYM of the word ‘Lead’ from the given sentence.

All the class monitors were asked to follow the guide who was there to manage and control their visit to Yamuna Biodiversity Park.

(a) Control
(b) Follow
(c) Guide
(d) Manage

Q19. Select the most appropriate option that can substitute the underlined segment in the given sentence.

I had get back from Hyderabad last month.

(a) got back from
(b) had got back
(c) get back from
(d) had got back from

Q20. Select the most appropriate synonym of the given word.

Salubrious

(a) Beneficial
(b) Vicarious

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(c) Insidious
(d) Septic

Directions

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

While I was sitting there (1)_____ over my failure to keep from having to spend (2) _____ glistering summer months on the freaking Cote of Azur, Grandmere started (3)_____ me from the phone. She kept (4)_____ her fingers on the phone to catch my attention. I just sat there blinking at her until finally she put her hand over the receiver and (5)_____ (so that nobody listens), “Amelia! In my bedroom, there is something for you”.

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

(a) smirking
(b) sulking
(c) grinning
(d) clapping

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

(a) ours
(b) me
(c) my
(d) mine

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

(a) disconcerting
(b) beckoning
(c) upsetting
(d) dismissing

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

(a) piquing
(b) snapping
(c) peering
(d) tapping

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

(a) commended
(b) cheered
(c) lauded
(d) hissed

GENERAL INTELLIGENCE

Q26. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row- 5, 39, 8

Second row- 7, 36, 5

Third row- 11, ?, 9

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(a) 60
(b) 40
(c) 50
(d) 70

Q27. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

6 : 96 :: 8 : 144 :: 5 : ?

(a) 70
(b) 90
(c) 85
(d) 75

Q28. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Catalyst
2. Carrot
3. Calcium
4. Calculate
5. Calendar

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

Q29. Three Statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All moons are suns.

No moon is a star.

Some stars are planets.

Conclusions:

I. Some suns are planets.

II. No sun is a star.

III. No planet is a moon.

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

Q30. The second number in the given number pairs is obtained by performing the certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs except one. Find that odd number pair.

(a) 43 : 84
(b) 21 : 40
(c) 15 : 210
(d) 19 : 36

Q31. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

16 * 6 * 69 * 81 * 3

(a) −, +, x, =
(b) ×, −, =, ÷
(c) ÷, +, =, ×
(d) +, =, ×, −

Q32. Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

TVX, SUW, RTV, QSU, ?

(a) TRP

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(b) RPT
(c) TPR
(d) PRT

Q33. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

19 : 90 :: 25 : ? :: 13 : 60

(a) 120
(b) 100
(c) 115
(d) 110

Q34. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)

Golf : Stick :: Cricket : ?

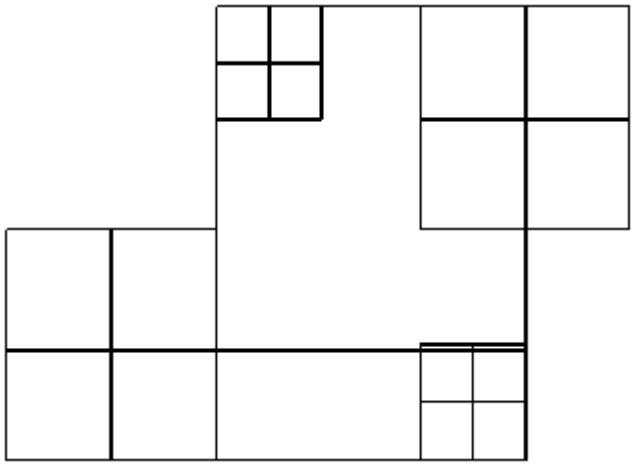
(a) Bat
(b) Stadium
(c) Ball
(d) Wicket

Q35. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

127 * 13 * 3 * 129 * 41

(a) +, =, +, −
(b) −, ×, =, −
(c) ÷, −, =, −
(d) −, −, =, +

Q36. How many squares are there in the given figure?



(a) 37
(b) 21
(c) 36
(d) 20

Q37. If A denotes '+', B denotes '×', C denotes '−' and D denotes '÷', then what will come in place of '?' in the following equation?

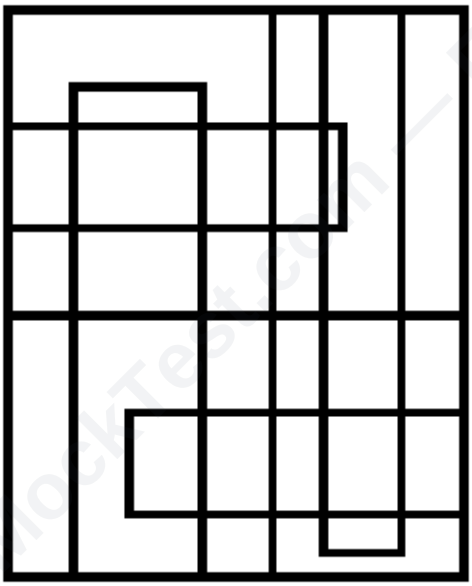
17 A (31 B 3) C (64 D 8) A 41 C (21 B 4) = ?

(a) 69
(b) 59
(c) 61
(d) 55

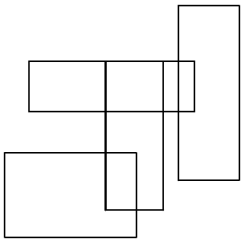
Q38. In a certain code language, 'MOTHER' is written as 'LNSGIV' and 'FATHER' is written as 'ZUSGIV'. How will 'WONDER' be written in that language?

(a) DLWMIV
(b) DLMWIV
(c) LDWMIV
(d) LDMWVI

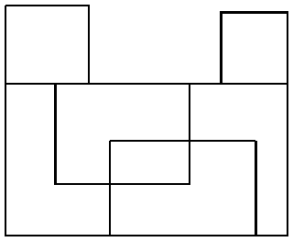
Q39. Select the option that is embedded in the given figure as its part (rotation is NOT allowed).



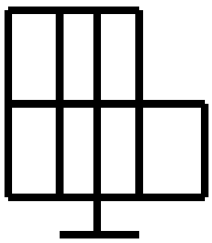
(a)



(b)

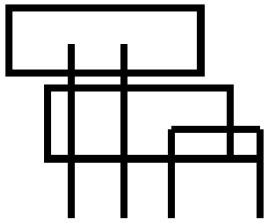


(c)

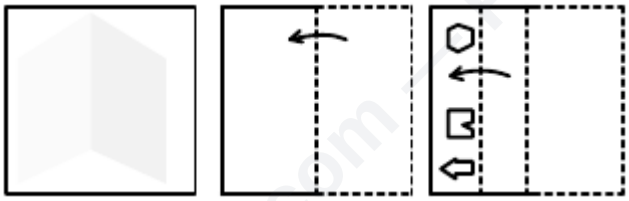


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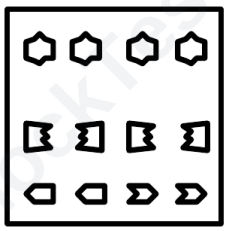
(d)



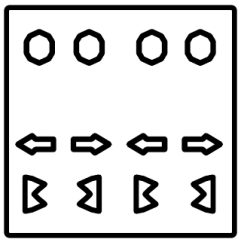
Q40. A paper is folded and cut as shown below. How will it appear when unfolded?



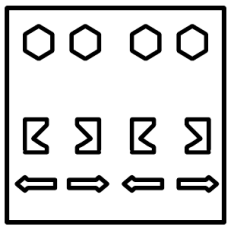
(a)



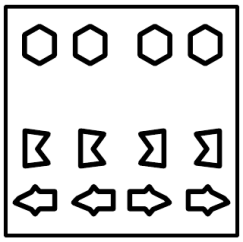
(b)



(c)



(d)



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



(a)



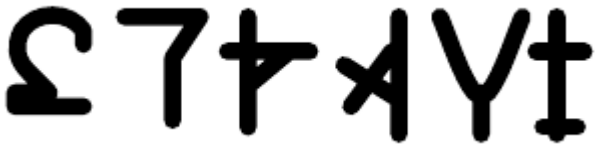
(b)



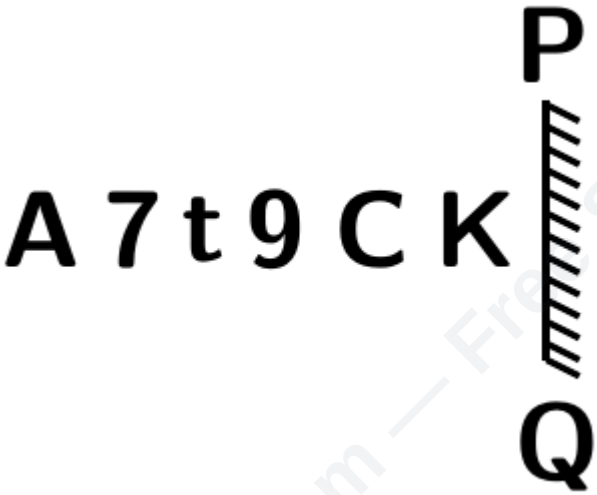
(c)



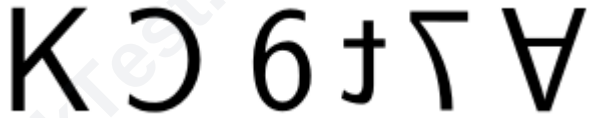
(d)



Q42. Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown



(a)



(b)



(c)



(d)



Q43. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

99 * 25 * 10 * 12 * 7

(a) −, =, +, ×
(b) +, =, +, ×
(c) −, +, =, ×
(d) −, =, +, +

Q44. If 31 December 2009 was Thursday, then what was the day of the week on 25 December 2010?

(a) Monday
(b) Sunday
(c) Saturday
(d) Tuesday

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Q45. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

16 * 4 * 8 * 10 * 2 * 43

(a) ÷, ×, –, +, =
(b) ÷, ×, +, –, =
(c) ×, ÷, –, +, =
(d) +, ×, –, ÷, =

Q46. In a certain code language, 'ACTOR' is written as '136812' and ‘HEROINE’ is written as ‘95128745’. How will 'HERO' be written in that language?

(a) 95128
(b) 95768
(c) 95218
(d) 95378

Q47. Which of the following numbers will replace the question mark (?) in the given series?

314, 285, 308, ?, 306, 293, 304

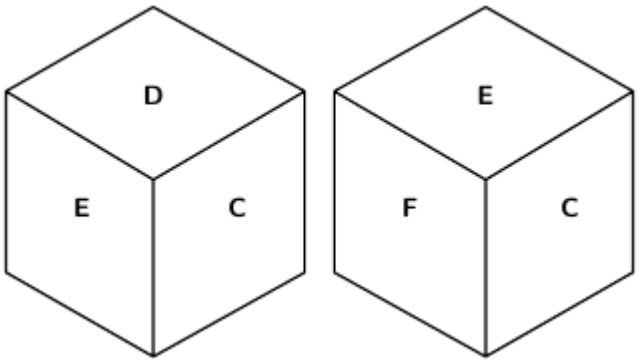
(a) 277
(b) 298
(c) 287
(d) 289

Q48. Which letter-cluster will replace the question mark (?) to complete the given series?

CIEO, JAAU, QSWA, XKSG,?

(a) FCOI
(b) ECOM
(c) ECRI
(d) FCRI

Q49. Two different positions of the same dice are shown, the six faces of which are marked from A to F. Select the letter that will be on the face opposite to the one showing 'D'.



(a) F
(b) C
(c) B
(d) E

Q50. Select the option that is related to the fifth word in the same way as the second word is related to the first word and the fourth word is related to the third word. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)

Elephant : Trunk :: Fish : Gill :: Kangaroo : ?

(a) Antlers
(b) Pouch
(c) Blowhole
(d) Muzzle

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QUANTITATIVE APTITUDE

Q51. Ruksana travelled at 60 km/h while going from point A to point B and returned via the same route at a different speed. If Ruksana's overall average speed during the two-way journey was 48 km/h, what was her speed while travelling from B to A?

(a) 42 km/h
(b) 40 km/h
(c) 45 km/h
(d) 36 km/h

Q52. What distance will be covered by a bus moving at 108 km/h in 40 seconds?

(a) 1 km 600 m
(b) 1 km 400 m
(c) 1 km 800 m
(d) 1 km 200 m

Q53. An arc on a circle that is 15 cm long subtends a 24° angle at the centre. What is the circumference of the circle?

(a) 240 cm
(b) 220 cm
(c) 236 cm
(d) 225 cm

Q54. The ratio of the radii of two right circular cylinders is 2 : 3. If their heights are in the ratio 5 : 3, find the ratio of their volumes.

(a) 16 : 19
(b) 3 : 4
(c) 3 : 1
(d) 20 : 27

Q55. An article is sold at a discount of 10% and an additional discount of 40% is allowed on cash payment. If Anita purchased an article by paying Rs. 2,700 in cash, the marked price of the article was:

(a) Rs. 5,000
(b) Rs. 2,500
(c) Rs. 2,000
(d) Rs. 5,500

Q56. A dealer allows his customers a discount of 15% and still gains 15%. If an article cost Rs. 2,500 to the dealer, then its marked price is (correct to nearest integer):

(a) Rs. 3,382
(b) Rs. 4,382
(c) Rs. 1,312
(d) Rs. 3,182

Q57. The lengths of a pair of parallel sides of a trapezium are 20 cm and 25 cm, respectively, and the perpendicular distance between these two sides is 14 cm. What is the area (in cm^2) of the trapezium?

(a) 512
(b) 250
(c) 300
(d) 315

Q58. The average of six integers is 48. The average of the first five integers is 70% of the sixth integer. The sixth integer is.

(a) 64
(b) 62
(c) 68

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(d) 58

Q59. Two numbers X and Y are such that the sum of 18% of X and 8% of Y is one-third of the sum of 22% of X and 36% of Y. Find the ratio of X and Y.

(a) 2 : 5
(b) 3 : 11
(c) 3 : 8
(d) 8 : 3

Q60. Simplify the following expression.

79 – [6 – {4 – (8 × (6 + 3))}] ÷ 2

(a) 11.5
(b) 2.5
(c) 37
(d) 42

Q61. Find θ, if cos θ = - ~√3/2

(a) (3 π)/2
(b) (5 π)/6
(c) (2 π)/3
(d) (4 π)/3

Q62. What is the compound interest on Rs. 10,625 for 2 years at 8% interest per annum, if interest is compounded annually?

(a) Rs. 1,768
(b) Rs. 1,698
(c) Rs. 1,625
(d) Rs. 1,528

Q63. The smallest four-digit number which is divisible by 4, 8, 12 and 16 is:

(a) 1010
(b) 1008
(c) 1006
(d) 1012

Q64. If (x - 1/x) = 7.5, what is the value of (x^2 + 1/(x^2)) ?

(a) 54.25
(b) 58.25
(c) 60.25
(d) 56.25

Q65. Which among the below option can be a square root of ?

(x^2 - 14x + 49) (x^2 + 6x + 9)

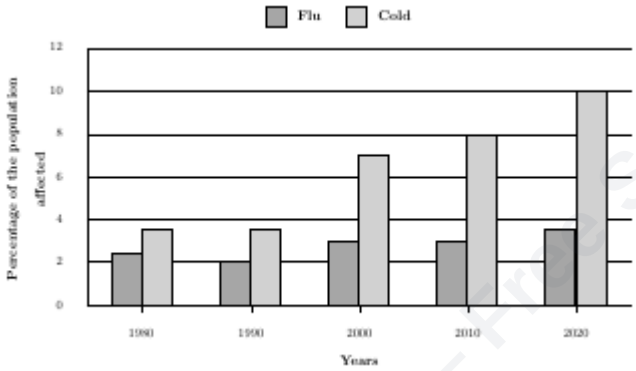
(a) (x - 4)(x + 9)
(b) (x - 1)(x + 17)
(c) (x - 7)(x + 3)
(d) (x - 3)(x + 8)

Q66. If (x^3 + y^3)^(2/3) ~ = (x^2 + y^2), then the value of (x^2 + y^2)/xy x ≠ 0, y ≠ 0, is

(a) 2/3
(b) x^2 + y
(c) 1
(d) x + y^2

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Q67. Study the given graph and answer the following question:



As per the data available above, in which year was the percentage of population affected by cold was minimum?

(a) 2020
(b) 1990
(c) 2010
(d) 2000

Q68. Study the given table and answer the question that follows.

Given that the total number of students is 100.

Subject	Marks out of 100				
80 and above	60 and above	40 and above	20 and above	0 and above	
A	9	31	81	92	100
B	4	20	67	81	100
C	7	26	74	87	100

The number of students who scored less than 80% marks in A is:

(a) 73
(b) 83
(c) 91
(d) 71

Q69. A man sold a radio set and gained one-eighth of its cost price. What is the profit percent?

(a) 20%
(b) 12.5%
(c) 15.5%
(d) 18%

Q70. The table below gives the percentage of female and males in different professions, out of total 10000 people.

Profession	% of People	% of males	% of females
Teaching	20	50	50
Law	15	65	35
Medical	20	60	40
Engineering	24	55	45
Banking	21	52	48

On the basis of the information provided in the table, find the total number of males who are in the teaching profession.

(a) 1000
(b) 2000
(c) 500

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(d) 1500

Q71. The radius of a hemispherical bowl is given as 7 cm. What is the capacity of the bowl ?(π = 22/7)

(a) 718 2/3 cm^3
(b) 812 1/3 cm^3
(c) 618 1/3 cm^3
(d) 518 2/3 cm^3

Q72. A pipe can fill a tank in 15 hours. Due to leakage in the bottom it is filled in 20 hours. If the tank is full, and the pipe is closed, how much time will the leak take to empty the entire tank?

(a) 60 hrs
(b) 50 hrs
(c) 40 hrs
(d) 30 hrs

Q73. Find the 4^(th) proportional to 5, 10 and 12.

(a) 8
(b) 24
(c) 48
(d) 20

Q74. A man borrowed some money and returned it in two equal instalments of Rs. 3,025 each. If the rate of interest is 10% per annum, compound annually, find the sum borrowed.

(a) Rs. 5,575
(b) Rs. 6,250
(c) Rs. 6,525
(d) Rs. 5,250

Q75. In an election between two candidates, one of the candidates secured 35% of the votes cast and was defeated by the other candidate by 1296 votes. If there were no invalid votes, then the total number of votes polled was:

(a) 4546
(b) 4230
(c) 4456
(d) 4320

GENERAL AWARENESS

Q76. Which of the following instruments is played by P Mani Iyer?

(a) Sarangi
(b) Violin
(c) Mridangam
(d) Mandolina

Q77. Who among the following authors won the Kamaladevi Chattopadhyay NIF Book Prize in the year 2019?

(a) Ornit Shani
(b) Jairam Ramesh
(c) Milan Vaishnav
(d) Dinyar Patel

Q78. The election of the next Vice-President is to be held within _____ of the expiry of the term of office of the outgoing Vice-President.

(a) 90 days
(b) 60 days
(c) 120 days
(d) 75 days

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Q79. In the Jayamma vs state of _____ case, in May 2021, the Supreme Court observed that dying declarations are admissible in evidence on the principle of necessity, as there is little hope of the maker surviving.

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

Q80. Which method of calculating the national income is also known as 'Industrial Origin Method'?

(a) Expenditure Method
(b) Income Method
(c) Value Added Method
(d) Monetary Measures Method

Q81. The famous folk musician Bhupen Hazarika belongs to which of the following states?

(a) Assam
(b) Odisha
(c) Madhya Pradesh
(d) Karnataka

Q82. Ustad Amjad Ali Khan, a renowned musician from India is known for playing which of the following instruments?

(a) Sarod
(b) Jaltarang
(c) Sarangi
(d) Veena

Q83. Which of the following dance forms is performed by Guru Vempati Chinna Satyam?

(a) Manipuri
(b) Odissi
(c) Bharatanatyam
(d) Kuchipudi

Q84. Modhera Dance Festival is an annual cultural phenomenon in the _____ district of the state of Gujarat.

(a) Junagadh
(b) Mehsana
(c) Amreli
(d) Anand

Q85. How many passenger trains are there as per 2021 data?

(a) 19169
(b) 11169
(c) 13169
(d) 16169

Q86. Kalamandalam Kshemavathy Pavithran was conferred the Padma Shri award for her contribution to which of the following dance forms?

(a) Kuchipudi
(b) Bharatanatyam
(c) Kathak
(d) Mohiniyattam

Q87. Which of the following novels is written by Kiran Desai?

(a) The Ministry of Utmost Happiness
(b) The Inheritance of Loss
(c) Midnight's Children
(d) The Golden House

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Q88. C V Chandra Shekhar was conferred the Padma Bhushan for his contributions to which of the following forms of Dance?

(a) Bharatanatyam
(b) Kathakali
(c) Manipuri
(d) Kathak

Q89. In 1857, who was the first to experimentally demonstrate that the yeast responsible for making alcohol from sugar, and contaminating microorganisms found in normal air, could sour fermentation?

(a) Alexander Fleming
(b) Louis Pasteur
(c) Fanny Hesse
(d) Martinus Willem Beijerinck

Q90. Which of the following Carnatic instruments is performed by Rajna Swaminathan?

(a) Violin
(b) Flute
(c) Veena
(d) Mridangam

Q91. Who among the following sportspersons is one of the Arjuna Award 2021 winners?

(a) Vikas Kumar
(b) Nishad Kumar
(c) Bajrang Punia
(d) P V Sindhu

Q92. Which phylum of the plant kingdom consists of vascular plants, leaves (known as fronds), roots and sometimes true stems and entire trunks in tree ferns?

(a) Angiosperm
(b) Pteridophyta
(c) Bryophyta
(d) Gymnosperm

Q93. Who observed that in a mixture of non-reactive gases, the total gas pressure is equal to the sum of the partial pressures of the individual gases?

(a) Antoine Lavoisier
(b) John Dalton
(c) Amedeo Avogadro
(d) Robert Boyle

Q94. Which cycle shows the movement of water?

(a) Carbon cycle
(b) Nitrogen cycle
(c) Geological cycle
(d) Hydrological cycle

Q95. Which of the following pairs is NOT correctly matched?

(a) Arun Jaitley cricket stadium - Bengaluru
(b) Bharat Ratna Atal Bihari Vajpayee Cricket Stadium - Lucknow
(c) Narendra Modi cricket stadium - Ahmedabad
(d) Eden Garden - Kolkata

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Q96. The autobiography 'My Experiments with Truth' was originally written in which language?

(a) English
(b) Bengali
(c) Gujarati
(d) Marathi

Q97. Who among the following secured one of the two silver medals for India at the Tokyo Olympics 2020?

(a) Ravi Kumar Dahiya
(b) Sushil Kumar
(c) Bajrang Punia
(d) KD Jadhav

Q98. Which chemical compound is composed of magnesium, sulphur and oxygen and is commonly used in detox bath to relax muscles and relieve pain in the shoulders, neck, back and scalp?

(a) Epsom salt
(b) Potash alum
(c) Rock salt
(d) Glauber's salt

Q99. The term 'dribble' is used in which of the following sports?

(a) Basketball
(b) Baseball
(c) Badminton
(d) Tennis

Q100. Which climate zone has an average temperature of over 64°F (18°C) throughout the year and more than 59 inches of rainfall each year?

(a) Tropical zone
(b) Temperate zone
(c) Dry zone
(d) Continental zone

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) went out to play

The erroneous part of the sentence is: went out to play

Key Points

• Replace 'went out' with 'go out' to make the sentence correct.

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• The given sentence is written in the Present Perfect tense.
• Structure of the Present Perfect Tense: Subject + have/has + past participle + the rest of the sentence.
• The present perfect in the 'if/when' -clause of a sentence in the first conditional emphasises that one action depends on the completion of another.
• Example - When I've finished writing my paper by tonight, I'll go out with my friends.
• The phrase 'go out' is often used this way to state that someone is going out to do something.
• 'Went out' as a verb means Simple past tense.
• The given sentence states that "After completing the sum, he may go out and play."
Therefore, the correct answer is option 2.
Corrected sentence: When you have worked out this sum, you may go out to play.

Q2. Answer: (c) in every Tuesday

The erroneous part of the sentence is: in every Tuesday
Key Points
• The given sentence contains a prepositional error in it.
• Replace 'in' with 'on' to make the sentence correct.
• In English, ‘on’ is used when referring to days.
• While 'in' is used for larger spans of time such as months and seasons, 'on' is used to indicate specific days, dates and specific times.
• Example - Yellow roses will bloom in the month of April.
• Example - We look forward to your gifts on Christmas Eve.
Therefore, the correct answer is option 3.
Corrected sentence: Going to the weekly market on every Tuesday is a ritual that has been followed by generations in my family.

Q3. Answer: (b) Hope

The solution is in Hindi. Read it online.

Q4. Answer: (d) Attendence

The erroneous spelling is: Attendence
Key Points
• The correct spelling should be 'Attendance'.
• 'Attendance' means the action or state of going regularly to or being present at a place or event.
• Example - Her attendance at school was sporadic.
Therefore, the correct answer is option 4 which is incorrectly spelt.
Additional Information
• Audience means the assembled spectators or listeners at a public event such as a play, film, concert, or meeting.
• Comprehension means the ability to understand completely and be familiar with a situation, facts, etc.
• Competence means the ability to do something successfully or efficiently.

Q5. Answer: (a) Wane

The solution is in Hindi. Read it online.

Q6. Answer: (b) heading for

The correct answer is: heading for
Key Points
• Replace 'heading into' with 'heading for' to make the sentence correct.
• We use 'for' to talk about a purpose or a reason for something.
• If someone is 'heading for' something, it is likely to happen to them soon.
• Example - It appears that the rebels are heading for victory.
• We use 'into' in a sentence to move or guide someone or something into some place or thing.
Therefore, the most appropriate option is option 2.
Corrected sentence: It was apparent that the girl was heading for a serious disaster.
Additional Information
• Along refers to moving in a constant direction on a road, path, or any more or less horizontal surface.

• 'Heading down' or 'Going down' refers to proceeding or going to some specific destination or event.
• 'Heading out' is often used in reference to a planned departure or as a way to announce one's exit.

Q7. Answer: (a) kengaroo

The erroneous spelling is: kengaroo

Key Points

• The correct spelling should be 'kangaroo'.
• 'Kangaroo' is a large Australian mammal with a long stiff tail, short front legs and long powerful back legs.
• Example - The kangaroo lives in droves in the open grassy plains.

Therefore, the correct answer is option 1 which is incorrectly spelt.

Additional Information

• Vivacious means attractively lively and animated (typically used for a woman).
• Ambiguous means open to more than one interpretation; not having one obvious meaning.
• Itinerary means a travel document recording a route or journey.

Q8. Answer: (d) Bankrupt

The correct answer is: Bankrupt

Key Points

• Bankrupt means a person or organization declared in law as unable to pay their debts.
• Example - His father went bankrupt and the family had to sell their home.
• **So, it is clear that the 'Bankrupt' can be used as a one-word substitute for 'unable to pay his debts.'

Therefore, the correct answer is option 4.

Additional Information

• Destitute means extremely poor and lacking the means to provide for oneself.
• Meticulous means showing great attention to detail; very careful and precise.
• Reckless means to be marked by a lack of proper caution.

Q9. Answer: (c) An unexpected winner

The correct answer is: An unexpected winner

Key Points

• Dark horse means someone with a secret ability or achievement; an unexpected winner of a race, competition or election.
• Example - The movie is a dark horse for the award.
• So, it is clear that the most appropriate meaning of the given idiom 'Dark horse' is 'An unexpected winner.'

Hence, the correct answer is option 3.

Q10. Answer: (b) He will be made the leader by the people.

The correct answer is option 2.

Key Points

• **The subject of the Active Voice is changed into the object of the Passive voice. Also, the object of the Active Voice is changed into the subject of the Passive Voice.
• The usage of a helping verb is necessary while changing the voice of the sentence from Active to Passive.
• The preposition “by” is used before the object made in Passive Voice. However, it is optional in some cases.
• The Active voice in this question is in Future Indefinite. Thus, the Passive voice will also be in the Future Indefinite.
• The format of Active voice is: Subject + shall/will + V1 + Object.
• Thus, in Passive voice, the format will be: Object of the active voice (Subjective case) + shall/will + be + made + by + Subject of the active voice (Objective case).
• For example:
• He will complete the assignment. (Active Voice)
• The assignment will be completed by him. (Passive Voice)
• The options except option (2) don’t follow the correct grammatical format of the Passive Voice.
• Therefore, the correct answer is: He will be made the leader by the people.

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Q11. Answer: (c) He is known to me.

The correct answer is option 3.

Key Points

• The Active Voice describes sentence where the subject performs the action stated by the verb. While in the Passive Voice subject is acted upon by the verb.

• The structure of active voice = Subject + Verb + Object

• The structure of passive Voice = Object + helping verb + verb (3rd form) + by + Subject

• Rules of Conversion from Active to Passive Voice:

• Identify the subject, the verb, and the object.

• Change the object into subject.

• Change the verb into past participle of the verb.

• Change the subject into object.

Thus the passive voice will be: He is known to me.

Additional Information

• The word 'known' takes a fixed preposition 'to'.

Q12. Answer: (c) most

The correct answer is: most

Key Points

• Replace 'much' with 'most' to make the sentence correct.

• 'Most' denotes the greatest or highest degree, often used with an adjective or adverb to form the superlative.

• Example - Peter is one of the most reliable people on this planet.

• Superlative adjectives are used to describe an object which is at the upper or lower limit of quality.

• The comparative form of 'much' is 'more', and the superlative form of 'much' is the 'most'.

• 'Much' means a large amount, while 'most' means the largest amount in comparison with other things.

• Example - I will lend you as much money as you want.

• 'One of the' is always used with superlatives and it is used when we are referring to someone or something specific among many others.

Therefore, the correct answer is option 3.

Corrected sentence: Mahatma Gandhi is undoubtedly one of the most popular authors of our times.

Additional Information

• Best means the most excellent or desirable type or quality.

• Total means the whole number or amount of something.

• Better describes something as being superior or is an adverb that means something is done to a higher degree or more completely.

Q13. Answer: (d) has been trying

The correct answer is: has been trying

Key Points

• Replace 'is trying' with 'has been trying' to make the sentence correct.

• “Is trying” refers to occurring in the present, at the present moment.

• Structure of the Present Continuous Tense: Subject + am/is/are + present participle (verb+ing) + the rest of the sentence

• Example - The boys are playing in the park.

• “Has been trying” refers to the present perfect continuous. It refers to a time period which began in the past and continues in the present and into the future.

• Structure of the Present Perfect Continuous Tense: Subject + have/has + been + present participle + the rest of the sentence

• Example - I have been watching TV since 7 pm.

• We normally use 'since' with the present perfect to describe an action or situation that began in the past and continues in the present.

• In the given sentence 'since' is used to mean that "Sheela is continuously trying for a job for the last year and in present, the search is going on."

• 'Has' is used with the third person singular.

Therefore, the correct answer is option 4.

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Corrected sentence: Sheela has been trying for a job since last year.

Q14. Answer: (b) perform, possession

The correct words are: perform and possession

Key Points

• Perform means carry out, accomplish, or fulfil an action, task, or function.

• Example - I have my duties to perform.

• Possession means the state of having, owning, or controlling something.

• Example - She came into possession of a rare silver coin.

• According to the given sentence, Perform and Possession is the most appropriate words.

Therefore, the correct answer is option 2.

Complete sentence: Gifting is generally taken to be the easiest act to perform, if only you have the heart to part with something in your possession.

Additional Information

• Forsake means to stop doing or having something.

• Capacity means the amount that something can produce.

• Forgive means to stop feeling angry or resentful towards someone for an offence, flaw, or mistake.

• Discretion means the right or ability to decide something.

• Observe means to watch carefully the way something happens or the way someone does something.

• Control means to exercise authoritative or dominating influence over someone or something.

Q15. Answer: (d) knight

The correct answer is: knight

Key Points

• Knight means a warrior of the Middle Ages who fought on horseback, served a king, held a special military rank, and swore to behave in a noble way

• Example - The knight sharpened his sword in preparation for battle.

• If we refer to someone as "A knight in shining armour", that means they are kind and brave, and likely to rescue you from a difficult situation.

• So, it is clear that the most appropriate word is 'knight.'

Therefore, the correct answer is option 4.

Complete sentence: He is a knight in shining armour.

Additional Information

• Knit means to make a garment, fabric, etc. by interlocking loops of one or more yarns either by hand with knitting needles or by machine.

• Nite means an informal, simplified spelling of night.

• Night means the period from sunset to sunrise in each twenty-four hours.

Q16. Answer: (d) CDAB

The correct answer is "CDAB"

Key Points

• Let's look at the correct sequence of the passage.

• Statement C is the opening sentence of the passage which explains the theme of the passage that is Myths and it's importance.

• Statement D is the second sentence of the passage which explains that In today's world myths are describes as something unscientific and meaningless.

• Statement A is the third sentence of the passage which explains that myths also have great scientific values and only a foolish person would consider them irrational or worthless.

• Statement B is the last sentence of the passage which explains that people should not analyse myths on their factual accuracy and describes for what purposes myths are designed.

Hence, the correct sequence is C, D, A, B

The correct passage is: C. Myths have always been regarded as a complex and intriguing aspect in human life. D. In modern scientific world, they are essentially seen as something unscientific and meaningless. A. However, after studying the myths scientifically, only a simpleton would find them irrational or worthless. B. Moreover, it is wrong to analyse myths on the yardstick of their factual accuracy as they were designed to serve a greater, deeper purpose.

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Q17. Answer: (d) Be absolutely different

The correct answer is: Be absolutely different

Key Points

• The idiom 'Be like chalk and cheese' is used for expressing very different from one another; totally or nearly opposite in nature.

• Example - My brother and I are like chalk and cheese.

So, it is clear that the most appropriate meaning of the given idiom 'Be like chalk and cheese' is 'Be absolutely different.'

Hence, the correct answer is option 4.

Q18. Answer: (b) Follow

The correct answer is: Follow

Key Points

• Lead means to go before or with to show the way; conduct or escort.

• Example - Britain is now taking the lead in environmental policies.

• Marked option Follow means go or come after (a person or thing proceeding ahead.

• Example - I'll follow you back to the house.

• So, it is clear that 'Lead' and 'Follow' are opposite in meaning.

Therefore, the correct answer is option 2.

Additional Information

• Control means the power to influence or direct people's behaviour or the course of events.

• Guide means show or indicate the way to someone.

• Manage means succeed in surviving or in achieving something despite difficult circumstances.

Q19. Answer: (a) got back from

The correct answer is: got back from.

Key Points

• The rule is: Present Perfect + Point of Time= Simple Past.

• It should be noted that the point of time (last month) in the past demonstrates that the action took place at a point in the past.

• So, the verb that must be used should be in the simple past tense.

• The point of time in the past is mentioned by the following as given below:

• ago

• before

• yesterday

• the other day

• last month/year/day

• The use of 'had get back from' is grammatically incorrect as the point of time is present in the sentence.

• Thus, 'got back from' is the correct usage in this context.

Therefore, the corrected sentence is: I got back from Hyderabad last month.

Q20. Answer: (a) Beneficial

The correct answer is: Beneficial

Key Points

• Salubrious means favorable to or promoting health or well-being.

• Example - Vegetables are salubrious foods which provide essential nutrients.

• Marked option Beneficial means to produce good results or helpful effects.

• Example - Regular exercise has many beneficial health effects.

• So, it is clear that 'Salubrious' and 'Beneficial' are similar in meaning.

Therefore, the correct answer is option 1.

Additional Information

• Vicarious means to experience in the imagination through the feelings or actions of another person.

• Insidious means something that is unpleasant or dangerous, gradually and secretly causing harm.

• Septic means an infection caused by bacteria.

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Q21. Answer: (b) sulking

The correct answer is: sulking

Key Points

• Sulking means to be silent, morose, and bad-tempered out of annoyance or disappointment.

• Example - He's sulking in his room because I wouldn't let him have any more chocolate.

• Here in the given paragraph, 'sulking' is used as a verb to describe the sorrowness of the author's failure.

• So, it is clear that the most appropriate word is 'sulking'.

Therefore, the correct answer is option 2.

Correct Paragraph: While I was sitting there (1) sulking over my failure to keep from having to spend (2) _____ glistering summer months on the freaking Cote of Azur, Grandmere started (3)_____ me from the phone. She kept (4)_____ her fingers on the phone to catch my attention. I just sat there blinking at her until finally, she put her hand over the receiver and (5)_____ (so that nobody listens), “Amelia! In my bedroom, there is something for you”.

Additional Information

• Smirking means to smile in a way that expresses satisfaction or pleasure about having done something.

• Grinning means a facial expression characterized by turning up the corners of the mouth; usually showing pleasure or amusement.

• Clapping means to strike the palms of one's hands against one another resoundingly, and repeatedly to express approval.

Q22. Answer: (c) my

The correct answer is: my

Key Points

• 'My' is a possessive adjective and pronoun that we use where we already have a noun and want to indicate ownership.

• Example - Those are my glasses.

• 'my' is always placed before a noun.

• Here in the given paragraph, 'my' is used to explain that the glistering summer months belong to the speaker.

• So, it is clear that the most appropriate word is 'my'.

Therefore, the correct answer is option 3.

Correct Paragraph: While I was sitting there (1) sulking over my failure to keep from having to spend (2) my glistering summer months on the freaking Cote of Azur, Grandmere started (3)_____ me from the phone. She kept (4)_____ her fingers on the phone to catch my attention. I just sat there blinking at her until finally, she put her hand over the receiver and (5)_____ (so that nobody listens), “Amelia! In my bedroom, there is something for you”.

Additional Information

• 'Ours' is used to referring to a thing or things belonging to or associated with the speaker and one or more other people previously mentioned or easily identified.

• 'Me' is used by a speaker to refer to himself or herself as the object of a verb or preposition.

• 'Mine' is used in place of another noun when it's understood what's being discussed and adds information describing whose it is.

Confusion Points

• Both my and mine are possessives, but they are used rather differently.

• 'My' is put before a noun to indicate the speaker's possession.

• Example - You have your talent. I have my talent.

• Mine is similar to my, but it cannot be used with the following noun the same way as my, it can't be put before a noun.

• 'Mine' is always used after a helping verb to refer to something previously mentioned.

• Example - You have your talent. I have mine.

Q23. Answer: (b) beckoning

The correct answer is: beckoning

Key Points

• Beckoning means to make a gesture with the hand, arm, or head to encourage or instruct someone to approach or follow.

• Example - She was beckoning them in to shore.

• Here in the given paragraph, 'beckoning' is used as a verb to describe a call or signal by a motion.

• So, it is clear that the most appropriate word is 'beckoning'.

Therefore, the correct answer is option 2.

Correct Paragraph: While I was sitting there (1) sulking over my failure to keep from having to spend (2) my glistering summer months on the freaking Cote of Azur, Grandmere started (3) beckoning me from the phone. She kept (4)_____ her fingers on

the phone to catch my attention. I just sat there blinking at her until finally, she put her hand over the receiver and (5)_____ (so that nobody listens), “Amelia! In my bedroom, there is something for you”.

Additional Information

• Disconcerting means making someone feel uncertain and uncomfortable or worried

• Upsetting means causing unhappiness, disappointment, or worry.

• Dismissing means to treat as unworthy of serious consideration.

Q24. Answer: (d) tapping

The correct answer is: tapping

Key Points

• Tapping means the act or noise of touching something gently.

• Example - He was busy tapping away at his computer.

• Here in the given paragraph, 'tapping' is used as a verb to describe the noise of touching Grandmere*'s* fingers on the phone to catch the speaker's attention.

• So, it is clear that the most appropriate word is 'tapping'.

Therefore, the correct answer is option 4.

Correct Paragraph: While I was sitting there (1) sulking over my failure to keep from having to spend (2) my glistering summer months on the freaking Cote of Azur, Grandmere started (3) beckoning me from the phone. She kept (4) tapping her fingers on the phone to catch my attention. I just sat there blinking at her until finally, she put her hand over the receiver and (5)_____ (so that nobody listens), “Amelia! In my bedroom, there is something for you”.

Additional Information

• Piquing means causing unhappiness, disappointment, or worry.

• Snapping means the action of breaking suddenly and completely, typically with a sharp cracking sound.

• Peering means to look closely and searchingly

Q25. Answer: (d) hissed

The correct answer is: hissed

Key Points

• Hissed means to make a sharp sibilant sound as of the letter 's'.

• Example - The audience hissed loudly at the mention of his name.

• Here in the given paragraph, 'hissed' is used to describe a silent sound that nobody listens to, for something surprising.

• So, it is clear that the most appropriate word is 'hissed'.

Therefore, the correct answer is option 4.

Correct Paragraph: While I was sitting there (1) sulking over my failure to keep from having to spend (2) my glistering summer months on the freaking Cote of Azur, Grandmere started (3) beckoning me from the phone. She kept (4) tapping her fingers on the phone to catch my attention. I just sat there blinking at her until finally, she put her hand over the receiver and (5) hissed (so that nobody listens), “Amelia! In my bedroom, there is something for you”.

Additional Information

• Commended means to present as suitable for approval or acceptance; recommend.

• Cheered means to shout for joy or in praise or encouragement.

• Lauded means highly praised or admired.

Q26. Answer: (a) 60

The pattern followed by the given sets is:

(First term + third term) × 3 = Second term

Now we apply the pattern on the given rows:

First row- 5, 39, 8

(First term + third term) × 3 = Second term

(5 + 8) × 3 = 39

13 × 3 = 39

39 = 39

Second row- 7, 36, 5

(First term + third term) × 3 = Second term

(7 + 5) × 3 = 36

12 × 3 = 36

36 = 36

Third row- 11, ?, 9

(First term + third term) × 3 = Second term

(11 + 9) × 3 = Answer

20 × 3 = Answer

60 = Answer

Hence the correct answer option 1)

Q27. Answer: (d) 75

The pattern followed in the given series is:

(First term + 10) × First term = Second term

Let's apply the pattern on the given series:

6 : 96 :: 8 : 144 :: 5 : ?

(First term + 10) × First term = Second term

(6 + 10) × 6 = 96

16 × 6 = 96

96 = 96

6 : 96 :: 8 : 144 :: 5 : ?

(First term + 10) × First term = Second term

(8 + 10) × 8 = 144

18 × 8 = 144

144 = 144

6 : 96 :: 8 : 144 :: 5 : ?

(First term + 10) × First term = Second term

(5 + 10) × 5 = Answer

15 × 5 = Answer

75 = Answer

Hence the correct answer is option 4)

Q28. Answer: (c) 3, 4, 5, 2, 1

The correct order of the given words according to the English dictionary is:

3. Calcium

4. Calculate

5. Calendar

2. Carrot

1. Catalyst

So the correct order is 3, 4, 5, 2, 1.

Hence the correct answer is option 3)

Q29. Answer: (b) None of the conclusions follow.

From the given statements, the Venn diagram is:

• All moons are suns.

• No moon is a star.

• Some stars are planets.

I. Some suns are planets: According to the statements, there is no relation between suns and planets so we cannot relate planets with suns also some suns can be moons but no suns are planets. So the conclusion does not follow.

II. No sun is a star: From the given statement, it is safe to say that stars are related to suns and from the diagram, we can see the same. So this conclusion is wrong and it does not follow.

III. No planet is a moon: Since all moons are the sun and some stars are planets therefore we cannot say that planets are not related to moons. There is a possibility that it can be true. Thus the conclusion does not follow.

Since no conclusion follows.

Hence the correct answer is option 2)

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Q30. Answer: (c) 15 : 210

The pattern followed in the given set is:

First term × 2 - 2 = Second term

Let's check with the options given:

Option 1) 43 : 84

First term × 2 - 2 = Second term

43 × 2 - 2 = 84

86 - 2 = 84

84 = 84

Option 2) 21 : 40

First term × 2 - 2 = Second term

21 × 2 - 2 = 40

42 - 2 = 40

40 = 40

Option 3) 15 : 210

First term × 2 - 2 = Second term

15 × 2 - 2 = 210

30 - 2 = 210

28 ≠ 210

Option 4) 19 : 36

First term × 2 - 2 = Second term

19 × 2 - 2 = 36

38 - 2 = 36

36 = 36

Option 3) does not follow the pattern. Thus it is the odd pair.

Hence the correct answer is option 3)

Q31. Answer: (b) ×, −, =, ÷

We use the BODMAS rule to solve the equation:

We apply each option to the given equation:

16 * 6 * 69 * 81 * 3

Option 1) −, +, x, =

16 - 6 + 69 x 81 = 3

16 - 6 + 5589 = 3

5605 - 6 = 3

5599 ≠ 3

Option 2) ×, −, =, ÷

16 × 6 - 69 = 81 ÷ 3

16 × 6 - 69 = 27

96 - 69 = 27

27 = 27

LHS = RHS

Option 3) ÷, +, =, ×

16 ÷ 6 + 69 = 81 × 3

2.6 + 69 = 81 × 3

2.6 + 69 = 243

71.6 ≠ 243

Option 4) +, =, ×, −

16 + 6 = 69 × 81 - 3

16 + 6 = 5589 - 3

22 = 5589 - 3

22 ≠ 5586

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Hence the correct answer is option 2)

Q32. Answer: (d) PRT

According to the English alphabets and their positional values:
The pattern followed in the given series is:
Alphabets are decreased to 1 positional values.
Hence the correct answer is option 4)

Q33. Answer: (a) 120

The pattern followed in the given series is:
(First term × 5) - 5 = Second term
Let's apply the pattern on the given series:
19 : 90 :: 25 : ? :: 13 : 60
(First term × 5) - 5 = Second term
(19 × 5) - 5 = 90
95 - 5 = 90
90 = 90
19 : 90 :: 25 : ? :: 13 : 60
(First term × 5) - 5 = Second term
(13 × 5) - 5 = 60
65 - 5 = 60
60 = 60
19 : 90 :: 25 : ? :: 13 : 60
(First term × 5) - 5 = Second term
(25 × 5) - 5 = Answer
125 - 5 = Answer
120 = Answer
Hence the correct answer is option 1)

Q34. Answer: (a) Bat

The relation followed in the given series is:
Game : Object used to hit a ball in the game
Golf : Stick -- Golf is played with the help of stick.
Cricket : ? -- Cricket is played with the help of bat.
Since all other options does not follow the relation.
Hence the correct answer is option 1)

Q35. Answer: (b) −, ×, =, −

We use the BODMAS rule to solve the equation:
We apply each option on the given equation:
127 * 13 * 3 * 129 * 41
Option 1) +, =, +, −
127 + 13 = 3 + 129 - 41
140 = 132 - 41
140 ≠ 91
Option 2) −, ×, =, −
127 - 13 × 3 = 129 - 41
127 - 39 = 129 - 41
88 = 88
LHS = RHS
Option 3) ÷, −, =, −
127 ÷ 13 - 3 = 129 - 41
9.7 - 3 = 129 - 41

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6.7 ≠ 88

Option 4) −, −, =, +

127 - 13 - 3 = 129 + 41

127 - 13 - 3 = 170

111 ≠ 170

Hence the correct answer is option 2)

Q36. Answer: (d) 20

Explanation :

There are 16 inner squares and 4 outer squares.

Hence, 20 is the correct answer.

Q37. Answer: (b) 59

Explanation :

BODMAS Table

Symbol	Meaning
A	•
B	×
C	•
D	÷

Given equation : 17 A (31 B 3) C (64 D 8) A 41 C (21 B 4)

According to BODMAS table

=> 17 + (31 × 3) - (64 ÷ 8) + 41 - (21× 4)

=> 17 + 93 - 8 + 41 - 84

=> 110 - 8 + 41 - 84

=> 151 - 8 - 84

=> 59

Hence, "59" is the correct answer.

Q38. Answer: (c) LDWMIV

Alphabet and their positional value:

The logic followed here is:

‘MOTHER’ is written as ‘LNSGIV’

for, ‘FATHER’ is written as ‘ZUSGIV’

Similarly, for WONDER:

So, WONDER will be coded as LDWMIV.

Hence, "LDWMIV" is the correct answer.

Q39. Answer: (c) [figure]

The image embedded in given figure is as shown below :

No	Option	Question	Embedded
1			Not Embedded
2			Not Embedded
3			Embedded
4			Not Embedded

Hence, the correct answer is "Option 3"..

Q40. Answer: (c) [figure]

When we unfold the paper step by step we get the following image:

Hence the correct answer is option 3)

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Q41. Answer: (b) [figure]

The correct image of the given figure when the mirror is placed at 'MN' is:

Hence, the correct answer is "Option 2".

Q42. Answer: (c) [figure]

Explanation: The correct image of the given figure when mirror is placed at 'PQ' is :

Hence, option 3 is the correct answer.

Q43. Answer: (c) −, +, =, ×

Explanation :

BODMAS Table

Given equation : 99 * 25 * 10 * 12 * 7

Option 1) −, =, +, × by subsituiting this value in given equation by BODMAS rule we get,

99 − 25 = 10 + 12 × 7

74 = 10 + 84

74 ≠ 94 (LHS ≠ RHS)

Option 2) +, =, +, × by subsituiting this value in given equation by BODMAS rule we get,

99 + 25 = 10 + 12 × 7

124 = 10 + 84

124 ≠ 94 (LHS ≠ RHS)

Option 3) −, +, =, × by subsituiting this value in given equation by BODMAS rule we get,

99 − 25 + 10 = 12 × 7

109 - 25 = 84

84 = 84 (LHS = RHS)

Option 4) −, =, +, + by subsituiting this value in given equation by BODMAS rule we get,

99 − 25 = 10 + 12 + 7

74 ≠ 29 (LHS ≠ RHS)

Hence, Option 3) is the correct answer.

Q44. Answer: (c) Saturday

If 31 December 2009 was Thursday then,

Number of odd days in 2010(not a leap year) = 1

Thus, Thursday + 1 = Friday

31 December 2010 will be Friday.

Now, 25 December 2010 = Friday - 6 = Saturday.

So, 25 December 2010 was Saturday.

Hence, the correct answer is "Option 3".

Q45. Answer: (d) +, ×, –, ÷, =

BODMAS Table:

Given expression : 16 * 4 * 8 * 10 * 2 * 43

After replacing the * by signs, we get:

Option 1) ÷, ×, –, +, =

16 ÷ 4 × 8 – 10 + 2 = 43

= 4 × 8 – 10 + 2 = 43

= 32 - 10 + 2 = 43

= 34 - 10 = 43

= 24 ≠ 43

Given expression : 16 * 4 * 8 * 10 * 2 * 43

After replacing the * by signs, we get:

Option 2) ÷, ×, +, –, =

16 * 4 * 8 * 10 * 2 * 43

= 16 ÷ 4 × 8 + 10 – 2 = 43

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= 4 × 8 + 10 – 2 = 43
= 32 + 10 - 2 = 43
= 42 - 2 = 43
= 40 ≠ 43
Given expression : 16 * 4 * 8 * 10 * 2 * 43
After replacing the * by signs, we get:
Option 3) ×, ÷, –, +, =
16 * 4 * 8 * 10 * 2 * 43
= 16 × 4 ÷ 8 – 10 + 2 = 43
= 16 × 0.5 - 10 + 2 = 43
= 8 - 10 + 2 = 43
= 10 - 10 = 43
= 0 ≠ 43
Given expression : 16 * 4 * 8 * 10 * 2 * 43
After replacing the * by signs, we get:
Option 4) +, ×, –, ÷, =
16 * 4 * 8 * 10 * 2 * 43
= 16 + 4 × 8 – 10 ÷ 2 = 43
= 16 + 4 × 8 – 5 = 43
= 16 + 32 – 5 = 43
= 48 - 5 = 43
= 43 = 43
Hence, the correct answer is "Option 4".

Q46. Answer: (a) 95128

Alphabet and their place value:
The logic followed here is:
'ACTOR' is written as '136812'
‘HEROINE’ is written as ‘95128745’
Similarly, for 'HERO'
Hence the correct answer is option 1)

Q47. Answer: (d) 289

The pattern followed here is : Difference between each number in the series is a prime number i.e 29, 23, 19, 17, 13 and 11.
Hence, 'option 4' is the correct answer.
Important Points
Prime Numbers : A prime number is a natural number greater than 1 that can be divided only by itself and 1.
First ten Prime Numbers : 2, 3, 5, 7, 11, 13, 17, 19, 23, 29.

Q48. Answer: (b) ECOM

The positional values of the English alphabet is as follows:
The pattern followed here is:
Hence, 'option 2' is the correct answer.

Q49. Answer: (a) F

E and C are common in both the dices.
Clearly, F will be on the face opposite to D.
Hence, 'option 1' is the correct answer.

Q50. Answer: (b) Pouch

The logic followed here is:
Elephant : Trunk
Trunk is an internal organs that are the extended nose of Elephant,
Fish : Gill

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Gills are the internal organs that allow Fish to breathe underwater.

Similarly, for Kangaroo : ?

Pouch is the internal organs of Kangaroo that functions exclusively as baby containers.

Antlers	Outer Boday Part
Blowhole	Outer Boday Part
Muzzle	Outer Boday Part

Hence, 'Option 2' is the correct answer.

Q51. Answer: (b) 40 km/h

Given:

The speed of the car is travelling is 60 km/hr and Average Speed is 48 km/hr

Formula used:

Average speed = Total distance/Total time

Time = Distance/Speed

Calculation:

Let the Speed for returning be S.

Let the distance between A and B be x

2x/48 = x/60 + x/S

=> 2x/48 - x/60 = x/S

=> x/24 - x/60 = x/S

=>3x/120 = x/S

=>S = 40 km/h

Required speed = S = 40 km/hr

Therefore The Required speed for returning is 40 km/hr.

Alternate MethodCalculation:

=> (2 × S1 × S2)/(S1 + S2) = Average speed

=> (2 × 60 × S2)/(60 + S2) = 48

=> 5 × S2 = 120 + 2 × S2

=> 3 × S2 = 120

=> S2 = 40

Therefore The correct answer is 40 km/h.

Q52. Answer: (d) 1 km 200 m

Given:

Speed = 108 km/h

Time = 40 seconds

Formula used:

Distance = Speed × Time

Calculations:

Let the distance be D then,

According to question,

Distance = Speed × Time

=> D = 108 × 40/3600

=> D = 1.2 km = 1 km 200 m

Hence, The distance required is 1 Km 200 m.

Q53. Answer: (d) 225 cm

Shortcut Trick

The total circumference of a circle corresponds to a central angle of 360°.

An angle of 24° corresponds to an arc length of 15 cm.

Therefore, the full 360° corresponds to: (360° ÷ 24°) × 15 cm.

Circumference = 15 × 15 = 225 cm.
Therefore The correct answer is 225 cm.
Alternate Method
Given:
Length of arc (l) = 15 cm
Angle subtended at the centre (θ) = 24°
Formula Used:
Length of an arc = (θ ÷ 360°) × Circumference
Calculations:
=> 15 = (24° ÷ 360°) × Circumference
=> 15 = (1 ÷ 15) × Circumference
=> Circumference = 15 × 15
=> Circumference = 225 cm
Therefore The correct answer is 225 cm.
Additional Information
Area of a Sector
The area of a sector of a circle with radius r and central angle θ is given by Area = (θ ÷ 360°) × πr².
Circumference of a Circle
The total boundary length of a circle is calculated as C = 2πr or C = πd, which corresponds to the full 360° arc.
Radian Measure
When measuring angles in radians, the formula for arc length is simplified to l = r × θ. A complete circle is 2π radians.

Q54. Answer: (d) 20 : 27

Given:
Ratio of radius of two right circular cylinders = 2 : 3
Ratio of their heights = 5 : 3
Formula used:
Volume of right circular cylinder = πr2h
Calculation:
Let the volumes of both the cylinder be v1 and v_(2,)respectively.
And the height of both cylinder be h1 and h2
Then, according to the question, we have:
=> v1 : v2= π × (2)2 × (5)/π × (3)2 × (3)
=> v1 : v2 = 20/27
=> v1 : v2 = 20 : 27
Therefore The ratio of their Volumes is 20 : 27.

Q55. Answer: (a) Rs. 5,000

Given:
The successive discount are 10% and 40%(while done cash payment).
SP = Rs. 2,700
Formula:
Successive discount = X + Y - (XY)/100
Where,
X = First discount
Y = Second discount
Calculation:
Successive discount = X + Y - (XY)/100
=> 10 + 40 - (400/100)
=> 46%
Now, according to the question,
=> (100 - 46)% of MP = SP

=> 54% of MP = SP

=> 0.54 × MP = 2700

=> MP = 2700/0.54 = 5000

Therefore The Required Marked Price is Rs.5,000.

Q56. Answer: (a) Rs. 3,382

Given:

A dealer allows his customers a discount of 15% and still gains 15%.

an article costs Rs. 2,500 to the dealer.

Formula used:

(Marked price)/(Cost price) = (100 + profit%)/(100 - discount%)

Calculation:

According to question,

Marked price/2500 = 115/85

=> Marked price = (23 × 2500)/17

=> Marked price = 57,500/17 = Rs.3382.352 ~ Rs.3382

Therefore Marked price (nearest to one rupee) is Rs. 3382.

Q57. Answer: (d) 315

Shortcut Trick

Area of Trapezium = Average of parallel sides × Height

Area = [(20 + 25) ÷ 2] × 14

Area = 45 × 7

Area = 315 cm^2

Therefore The correct answer is 315 cm^2.

Alternate Method

Given:

Lengths of parallel sides (a and b) = 20 cm and 25 cm

Perpendicular distance between parallel sides (h) = 14 cm

20 cm

25 cm

14 cm

Formula Used:

Area of Trapezium = 1/2 × (Sum of parallel sides) × (Perpendicular distance)

Calculation:

=> Area = 1/2 × (a + b) × h

=> Area = 1/2 × (20 + 25) × 14

=> Area = 1/2 × 45 × 14

=> Area = 45 × 7

=> Area = 315

Therefore The correct answer is 315 cm^2.

Additional Information

Area of a Parallelogram

The area of a parallelogram is the product of its base and corresponding height. Formula: Area = base × height.

Area of a Rhombus

The area of a rhombus is half the product of its diagonal lengths. Formula: Area = 1/2 × d1 × d2.

Median of a Trapezium

The line segment joining the midpoints of the non-parallel sides is called the median. Length of median = 1/2 × (Sum of parallel sides).

Area of a Triangle

The area is half the product of its base and perpendicular height. Formula: Area = 1/2 × base × height.

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Q58. Answer: (a) 64

Given:

Average of 6 integers is 48.

The average of the first five integers is 70% of the sixth integer.

Formula used:

Average = (sum of the numbers)/(total numbers)

Calculations:

Let the 6th integer be x.

So, according to the question,

(Sum of the first 5 integers)/ 5 = 70% of x

(Sum of the first 5 integers)/ 5 = 0.70 x

Sum of the first 5 integers = 3.5 x

Now, Average of 6 integers = 48

(Sum of 5 integers + 6th integer)/6 = 48

=> (3.5x + x) = 48 × 6

=> 4.5 x = 288

=> x = 288/4.5 = 64

Therefore The Required value of the 6th integer is 64.

Q59. Answer: (c) 3 : 8

Given:

Two numbers X and Y are such that the sum of 18% of X and 8% of Y is one-third of the sum of 22% of X and 36% of Y.

Calculations:

According to the question,

=> 18% of X + 8% of Y = 1/3 × (22% of X + 36% of Y)

=> 3(0.18X + 0.08Y) = 0.22X + 0.36Y

=> 0.54X + 0.24Y = 0.22X + 0.36Y

=> (0.54 - 0.22)X = (0.36 - 0.24)Y

=> 0.32X = 0.12Y

=> X/Y = 0.12/0.32 = 3/8

=> X : Y = 3 : 8

Therefore The Required ratio is 3 : 8.

Q60. Answer: (d) 42

Given:

79 – [6 – {4 – (8 × (6 + 3))}] ÷ 2

Concept used:

Calculations:

=> 79 – [6 – {4 – (8 × (6 + 3))}] ÷ 2

=> 79 – [6 – {4 – (8 × (9))}] ÷ 2

=> 79 – [6 – {4 – (72)}] ÷ 2

=> 79 – [6 – {- 68))}] ÷ 2

=> 79 - [6 + 68] ÷ 2

=> 79 - 74 ÷ 2

=> 79 - 37

=> 42

Therefore The Required simplified value is 42.

Q61. Answer: (b) (5 π)/6

Given:

cos θ = - ~√3/2

Concept used:

cos (π - π/6) = - ~√3/2,

Every trigonometric ratio is negative except Sin and its reciprocal in the second quadrant.
Calculations:
=> cos θ = - ~√3/2
=> cos θ = cos(5π/6)
=> θ = 5π/6
Therefore The required value is 5π/6.

Q62. Answer: (a) Rs. 1,768

Given:
Principal = Rs. 10,625
Rate = 8%
Time = 2 years
Formula used:
A = P{1 + (r/100)^t}
Where,
A = amount, P = principal, r = rate, t = time
Compound Interest = Amount – Principal
Calculation:
=> A = P × {1 + (r/100)^t}
=> A = 10,625 × { 1 + (8/100)²}
=> A = 10,625 × (108/100)2
=> A = 10,625 × (1.08)²
=> A = Rs.12,393
Compound Interest = 12,393 –10,625 = Rs.1,768
Therefore The compound interest for the given principal is Rs. 1,768.
Alternate MethodConcept used:
The effective rate of R% for 2 years = R + R + R× Rover100
Calculation:
The effective rate of 8% for 2 years = 16.64%
=> 10625 × 16.64% = 1768
Therefore The correct answer is Rs. 1768.

Q63. Answer: (b) 1008

Given:
The given numbers are 4, 8, 12 and 16.
Concept:
The smallest four-digit number is 1000.
Calculation:
LCM of 4, 8, 12 and 16 = 48
When we divide 1000 by 48 we get 40 as the remainder.
The smallest four-digit number which is divisible by 4, 8, 12 and 16 is = 1000 – 40 + 48 = 1008
The smallest four-digit number which when divided by 4, 8, 12 and 16 is = 1008
Therefore The number will be 1008.

Q64. Answer: (b) 58.25

Given:
= 7.5
Calculations:
=> (x - 1/x) = 7.5
On squaring both sides, we get:
=> (x - 1/x) ²= (7.5)²
=> x² + 1/(x²) - 2 = 56.25
=> x² + 1/(x²) = 58.25

Therefore The value of $x^2 + 1/(x^2)$ is 58.25.

Alternate MethodConcept used:

If (x - 1/x) = P then,

x2 + $1/(x^2) = P^2 + 2$

Calculation:

=> (x - 1/x) = 7.5

=> $x^2 + 1/(x^2) = (7.5)^2 + 2$

=> x2 + $1/(x^2)$ = 58.25.

Therefore The correct answer of $x^2 + 1/(x^2)$ is 58.25.

Q65. Answer: (c) (x - 7)(x + 3)

Given:

(x2 - 14x + 49) (x2 + 6x + 9)

Calculations:

According to the question, we need:

=> √{(x2 - 14x + 49) (x2 + 6x + 9)}

=> √{(x2 + 2(- 7)x + 7^2) (x2 + 2(3)x + 3^2)}

=> √{$(x - 7)^2(x + 3)^2$}

=> (x - 7)(x + 3)

Therefore The required value is (x - 7) (x + 3).

Q66. Answer: (a) 2/3

Given:

$(x^3+y^3)^2/3$ = (x2 + y2)

Concept Used:

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

$(a+b)^3 = a^3 + b^3 + 3ab\ (a+b)$

Calculation:

For the given equation,

$(x^3+y^3)^2/3$ = (x2 + y2)

Cubing both sides, we get

=> $(x^3+y^3)^2 = (x^2+y^2)^3$

=> x^6+ y^6+ 2 x^3y^3= x^6+ y^6+ $3x^2y^2(x^2+ y^2)$

=> 2 x^3y^3= 3 $x^2y^2(x^2+ y^2)$

=> $xy = (3(x^2+y^2))/2$

Putting the value in the required equation $(x^2 + y^2)/xy$

=> $(x^2+y^2)/((3(x^2+y^2))/2)=(2(x^2+y^2))/(3(x^2+y^2))=2/3$

Therefore The required value of $(x^2 + y^2)/xy$ is 2over3.

Q67. Answer: (b) 1990

Calculation:

Percentage of population affected by cold in the year 2020 = 10%

Percentage of population affected by cold in the year 1990 = 3.5%

Percentage of population affected by cold in the year 2000 = 7%

Percentage of population affected by cold in the year 2010 = 8%

Therefore The percentage of population affected by cold is minimum in the year 1990.

Q68. Answer: (c) 91

Given:

Total number of students = 100

Subject	Marks out of 100				
80 and above	60 and above	40 and above	20 and above	0 and above	

A	9	31	81	92	100
B	4	20	67	81	100
C	7	26	74	87	100

Calculation:

Number of students scored 80 or above in subject A = 9

Total number of students = 100

So, number of students who scored less than 80% of marks = 100 – 9 = 91

Therefore The number of students who scored less than 80% marks in A is 91

Q69. Answer: (b) 12.5%

Given:

Profit = One-eighth of cost price

Concept Used:

Profit Percentage = Profit/CP× 100

Calculation:

Let the cost price of a radio set be Rs 100

Profit on selling radio set = 1/8 × 100 = 12.5 Rs

Profit Percentage = 12.5/100 × 100 = 12.5

Therefore The profit percentage made on selling the radio set is 12.5%.

Q70. Answer: (a) 1000

Given:

Profession	% of People	% of males	% of females
Teaching	20	50	50
Law	15	65	35
Medical	20	60	40
Engineering	24	55	45
Banking	21	52	48

Total number of people = 10,000

Calculation:

Percentage of people in Teaching profession = 20%

Number of people in Teaching profession = 20% × 10000 = 2000

Percentage of males in Teaching profession = 50%

Number of males in Teaching profession = 50% of 2000

Number of males in Teaching profession = 1000

Therefore The total number of males in the teaching profession is 1000.

Q71. Answer: (a) 718 2/3 cm³

Given:

Radius of a hemispherical bowl = 7 cm

Concept Used:

Volume of hemisphere = 2/3π r³

Calculation:

Capacity of bowl = 2/3π r³

Capacity of bowl = 2/3× 22/7 × 7 × 7 × 7

Capacity of bowl = 2over3 × 22 × 49

Capacity of bowl = 2156/3=7182/3 cm³

Therefore The capacity of the hemispherical bowl is 718 2/3 cm³.

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Q72. Answer: (a) 60 hrs

Given:

Time taken by pipe to fill the tank = 15 hours

Due to leakage, the time taken to fill the tank = 20 hours

Concept Used:

Rate of Leakage = Initial filling rate – Filling rate with leakage

Calculation:

=> Initial rate of filling the tank = 1/Time=1/15

=> Time taken to fill the tank with leakage = 20 hours

=> So, Filling rate with leakage = 1/20

=> Therefore, Rate of leakage = 1/15-1/20=(4-3)/60=1/60

Hence, the time taken to empty the entire tank is 60 hours.

Shortcut TrickCalculation:

Efficiency	Pipe	Time	Total capacity
4	P	15	60
3	P + L	20	

So,

Efficiency of the leakage = (4 - 3) = 1 unit/hr

Time taken to empty the tank = 60/1 = 60 hrs

Therefore The correct answer is 60 hrs.

Q73. Answer: (b) 24

Given:

5, 10 and 12

Concept Used:

Fourth proportion of three numbers a, b and c = (b× c)/a

Calculation:

Let the fourth proportion be x.

So, a = 5, b = 10 and c = 12

Then, x = (10× 12)/5=24

Therefore The fourth proportion to 5, 10 and 12 is 24

Q74. Answer: (d) Rs. 5,250

Given:

Value of one instalment = Rs 3,025

Rate of interest per annum = 10%

Concept Used:

Sum Borrowed = [Principal/(1+r/100)]+[Principal/((1+r/100)^2)]~

Calculation:

The principal amount of each instalment = Rs 3,025

Sum borrowed by a man = [3025/(1+10/100)]+[3025/((1+10/100)^2)]

Sum borrowed by a man = 3025/(110/100)+3025/((110/100)^2)=(3025× 10)/11+(3025× 100)/121

Sum borrowed by a man = 275× 10+25× 100=2750+2500=5250 Rs

Hence, the sum of money borrowed by a man is Rs 5,250

Shortcut TrickCalculation:

Principal	Instalment
10 × 11 = 110	11 × 11 = 121
100	121

Now,

=> 121 units = 3025

=> 1 unit = 3025/121 = 25

=> (110 + 100) = 210 units = 210 × 25 = 5250

Therefore The correct answer is Rs.5250.

Q75. Answer: (d) 4320

Given:

Votes secured by first candidate = 35% of the casted vote

Number of votes by which other candidate gave defeat = 1296

Calculation:

Let the total polled votes be x.

Percentage of votes secured by the winning candidate

=> 100 – 35 = 65%

Votes polled for first candidate = 35/100× x = 7x/20~

Votes polled for second candidate = 65/100× x = 13x/20~

According to the question,

=> 13x/20-7x/20 = 1296

=> 6x/20 = 1296

=> x = (1296× 20)/6

=> x = 216 × 20 = 4320

Therefore The total number of votes polled in the election are 4320

Q76. Answer: (c) Mridangam

The correct answer is Mridangam.

Key Points

• P Mani Iyer

• Palghat T. S. Mani Iyer, born Thiruvilvamalai Ramaswamy was one of the leading mridangists in the field of Carnatic music.

• He, along with his contemporaries Palani Subramaniam Pillai and Ramanathapuram C.S. Murugabhoopathy, are revered as the "Holy Trinity of Mrudangam".

• Mani Iyer was the first mridangist to be awarded the Sangeetha Kalanidhi presented by the Music Academy of Madras, the Padma Bhushan and the Sangeet Natak Akademi Awards presented by the Government of India.

• Mani Iyer accompanied all the leading vocal artists of his era.

• He was also the guru for later mridangam players such as Late Palghat R. Raghu, Late Mavelikkara Velukkutty Nair, Umayalpuram K. Sivaraman, Thanjavur R.Ramadas, Kamalakar Rao, Late G. Harishankar (kanjira),etc.

Additional Information

• mridangam

• The mridangam is a percussion instrument of ancient origin.

• It is the primary rhythmic accompaniment in a Carnatic music ensemble.

• sarangi

• The sarangi is a bowed, short-necked string instrument played in traditional music from India – Punjabi folk music, Rajasthani folk music, and Boro folk music – also in Pakistan and Bangladesh.

• violin

• The violin, sometimes known as a fiddle, is a wooden chordophone in the violin family.

• Most violins have a hollow mandolin.

• It is the smallest and thus highest-pitched instrument in the family in regular use.

• mandolin

• A mandolin is a stringed musical instrument in the lute family and is generally plucked with a plectrum

Q77. Answer: (a) Ornit Shani

The correct answer is Ornit Shani.

Key Points

• The New India Foundation (NIF) Kamaladevi Chattopadhyay Book Prize was awarded to political and modern Indian history scholar Ornit Shani for her book How India Became Democratic: Citizenship and the Making of the Universal Franchise, published by Penguin Random House India.

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• The prize carries a sum of Rs 15 lakhs and this second annual prize was presented during the Bangalore Literature Festival.

• Members of the jury included Nandan Nilekani, Ramachandra Guha, Manish Sabharwal and Srinath Raghavan.

• The Kamaladevi Chattopadhyay NIF Book Prize book prize was set-up in 2018, with the aim of recognising outstanding non-fiction about contemporary India, and is open to all authors irrespective of their nationality.

• The 2018 prize was awarded to Dr Milan Vaishnav for his book When Crime Pays: Money and Muscle in Indian Politics.

Additional Information

• Jairam Ramesh

• Jairam Ramesh is an Indian economist, historian and politician belonging to Indian National Congress.

• He is a Member of Parliament representing Karnataka state in the Rajya Sabha.

• Milan Vaishnav

• Milan Vaishnav is a senior fellow and director of the South Asia Program and the host of the Grand Tamasha podcast at Carnegie, where he focuses on India's political economy, governance, state capacity, distributive politics, and electoral behavior.

• Dinyar Patel

• Dinyar Patel is Assistant Professor of History at the University of South Carolina.

• He has written for BBC News and the New York Times, among other publications

Q78. Answer: (b) 60 days

The correct answer is 60 days.

Key Points

• Vice-President

• The election of the next Vice-President is to be held within 60 days of the expiry of the term of office of the outgoing Vice-President.

• The Election Commission of India, which is a constitutional autonomous body, conducts the election.

• The vice president is elected indirectly, by an electoral college consisting of members (elected as well as nominated) of both Houses of Parliament, by the system of proportional representation using single transferable votes and the voting is by secret ballot.

• The election of the vice president is slightly different from the election of the president as the members of state legislatures are not part of the electoral college but the nominated members of Rajya Sabha are part of it.

• The nomination of a candidate for election to the office of the vice president must be subscribed by at least 20 electors as proposers and 20 electors as seconders.

• Every candidate has to make a security deposit of Rs. 15,000 in the Reserve Bank of India.

Additional Information

• Jagdeep Dhankhar

• Jagdeep Dhankhar is an Indian politician and lawyer, who is serving as the 14th and current vice president of India since 11 August 2022.

• Prior to serving in this position, he served as the Governor of West Bengal.

• The vice president of India is the deputy to the head of state of the Republic of India, i.e. the president of India.

• The office of vice president is the second-highest constitutional office after the president and ranks second in the order of precedence and first in the line of succession to the presidency.

• The vice president is also a member of the Parliament of India as the ex officio chairman of the Rajya Sabha.

Q79. Answer: (b) Karnataka

The correct answer is Karnataka.

Key Points

• On May 7, 2021, the Hon’ble Supreme Court of India delivered a judgment that revolved around the issue of dying declaration.

• The decision was passed in the case of Jayamma & Anr. v. The State of Karnataka, 2021 with Lachma s/o Chandyanaika & Anr. vs. State of Karnataka, 2021.

• It was delivered by a double bench comprising Hon’ble Justice Surya Kant and Hon’ble Justice Aniruddha Bose.

• The present case has undergone through all the Courts, i.e., the Trial Court, the High Court, and the Supreme Court, where the final verdict was given.

• This case is a perfect example where the issue of dying declaration has been explained in detail by the Hon’ble Supreme Court.

• The Court, in this case, highlighted the significance of a dying declaration and termed it a solitary piece of evidence in a murder trial.

• Through this article, we shall analyze the law around dying declarations, in the light of Jayamma & Anr. v. The State of Karnataka.

Additional Information

• Karnataka

• Basavaraj Somappa Bommai is an Indian politician and engineer who is the current and 23rd Chief Minister of Karnataka.

• Thawar Chand Gehlot is an Indian politician who is the current and 19th Governor of Karnataka.

• Bangalore, officially known as Bengaluru, is the Capital of the Indian State of Karnataka.

• Karnataka state has 5 Tiger Reserves, 30 wildlife sanctuaries and 15 conservation reserves.

Q80. Answer: (c) Value Added Method

The correct answer is Value Added Method.

Key Points

• Value Added Method

• There are three methods for calculating national income namely Income Method, Expenditure method, and Value Added Method.

• In this article, we will understand the value-added method for calculating national income.

• The value-added method is used to calculate the national income in different stages of production in the circular flow.

• It represents the contribution for each producing unit in the production process.

• Value-added refers to the additional value to the raw material by an organization, using its production activities.

• It is calculated as the difference between the value of output and the value of intermediate goods.

• The value-added method is a widely used method for calculating national income as it avoids double counting, which is quite a serious error while estimating national income.

Additional Information

• Expenditure

• The expenditure method is a system for calculating gross domestic product (GDP) that combines consumption, investment, government spending, and net exports.

• It is the most common way to estimate GDP.

• Income

• The income approach is an evaluation methodology used for real estate estimation, which is computed by dividing the capitalisation tariff or price by the net operating income of the rental payments.

• Monetary

• The monetary method is a widely used approach to measure the size of the shadow economy.

• It is based on the hypothesis that cash is used to make transactions that agents want to keep hidden from official records.

Q81. Answer: (a) Assam

The correct answer is Assam.

Key Points

• Bhupen Hazarika

• Bhupen Hazarika was an Indian playback singer, lyricist, musician, poet, actor, and filmmaker from Assam, widely known as Sudha Kontho means 'nectar-throated.

• The songs, based on the themes of communal amity, universal justice, and empathy, are especially popular among the people of Assam, West Bengal, and Bangladesh.

• He is acknowledged to introduce the culture and folk music of Assam and Northeast India to Hindi cinema at the national level.

• He received the National Film Award for Best Music Direction in 1975, Padma Shri, and Padma Bhushan, Dada Saheb Phalke Award, the highest award for cinema in India, the Sangeet Natak Akademi Award, and Sangeet Natak Akademi Fellowship, the highest award of the Sangeet Natak Akademi.

• In 2012, he was awarded the Padma Vibhushan, India's second-highest civilian award, and in 2019 the Bharat Ratna, India's highest civilian award, posthumously.

• Bhupen Hazarika also held the position of Chairman of the Sangeet Natak Akademi from December 1998 to December 2003.

Additional Information

• The 15th Chief Minister of Assam is Sri Himanta Biswa Sarma.

• The 31st Governor of Assam is Gulab Chand Kataria.

• Dispur is the capital of Assam.

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Q82. Answer: (a) Sarod

The correct answer is Sarod.

Key Points

• Ustad Amjad Ali Khan

• Ustad Amjad Ali Khan born on 9th October 1945 is an Indian classical sarod player, best known for his clear and fast ekhara taans.

• Ustad Amjad Khan was honored with Padma Shri in 1975, Padma Bhushan in 1991, and Padma Vibhushan in 2001.

• Ustad Amjad Khan was also awarded 21st Rajiv Gandhi National Sadbhavna Award, the Sangeet Natak Akademi Award in 1989, and the Sangeet Natak Akademi Fellowship in 2011.

• Sarod: It is a stringed instrument.

• Sarod known for its deep, weighty, introspective sound, widely used in folk music.

• The U.S. state of Massachusetts proclaimed 20 April as Amjad Ali Khan Day in 1984.

Additional Information

• sarod

• The sarod is a stringed instrument, used in Hindustani music on the Indian subcontinent. Along with the sitar, it is among the most popular and prominent instruments.

• The Jal Tarang is a melodic percussion instrument that originates from the Indian subcontinent. It consists of a set of ceramic or metal bowls filled with water. The bowls are played by striking the edge with beaters, one in each hand.

• Sarangi

• The sarangi is a bowed, short-necked string instrument played in traditional music from India – Punjabi folk music, Rajasthani folk music, and Boro folk music – also in Pakistan and Bangladesh.

• Veena

• The Veena also spelled vina, comprises various chordophone instruments from the Indian subcontinent. Ancient musical instruments evolved into many variations, such as lutes, zithers, and arched harps.

Q83. Answer: (d) Kuchipudi

The correct answer is Kuchipudi.

Key Points

• Vempati Chinna Satyam

• Vempati Chinna Satyam(1929-2012) was an Indian dancer and a guru of the Kuchipudi dance form.

• Born in a brahmin family, in Kuchipudi Andhra Pradesh.

• He refined the art form, bringing it closer to the standards of Natya Shastra and giving it a whole new perspective, and introducing new elements, i.e chari(leg movements) of Natya Shastra.

• He has started the Kuchipudi Art Academy at Madras in 1963.

• He was awarded by many state governments of India such as Kalaimamani by the Government of Tamil Nadu and Kalidas Puraskar by the Government of Madhya Pradesh.

• He was honored with a Doctorate degree from Andhra University.

• He was also awarded the Padma Bhushan by the Government of India, the third highest civilian award.

Additional Information

• Manipuri

• The Manipuri Dance also referred to as the Manipuri Raas Leela, is one of the eight major Indian classical dance forms, originating from the state of Manipur.

• Odissi

• Odissi also referred to as Orissa in old literature, is a major ancient Indian classical dance that originated in the Hindu temples of Odisha – an eastern coastal state of India.

• Bharatanatyam

• Bharatanatyam is a major form of Indian classical dance that originated in Tamil Nadu. The dance form is also briefly mentioned in the Kannada text Manasollasa written by Someshwara III.

Q84. Answer: (b) Mehsana

The correct answer is Mehsana.

Key Points

• Modhera

• Modhera is a village in the South-west of Mehsana District, Gujrat.

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• The three-day Modhera Dance festival is held every year during the third week of January after the conclusion of the Uttarayan festival.
• Modhera, the temple of the Sun narrates the history of its patrons, the Solankis in an architectural marvel.
• This festival of dance, Uttarardh Mahotsav, derives its name from the planetary and astronomical configuration of the Sun.
• This festival takes place every year after Uttarayan, at the Modhera temple dedicated to the Sun God.
• Uttarayan is the day when the sun starts its voyage towards Uttar or North indicating the end of winter and the beginning of longer days with a pleasant breeze.
• During Uttarayan, the Sun migrates from one planet to the other, it travels from Dhanu or Sagittarius to Makara i.e Capricorn.
• Halfway through this voyage, when the 'ardh' or half of 'uttar' or Northward journey is over, the period is known as Uttararadh.

Additional Information

• Gandhinagar is the capital of Gujarat.
• Bhupendrabhai Rajnikantbhai Patel is an Indian politician and the current Chief Minister of Gujarat since September 2021.
• Acharya Devvrat is an Indian politician and former educationalist who is serving as the 20th Governor of Gujarat.
• Garba, is a type of Indian dance commonly performed at festivals and on other special occasions in the state of Gujarat, India.

Q85. Answer: (c) 13169

The correct answer is 13169.

Key Points

• Indian railway runs 13,169 passenger trains daily, on both long-distance and suburban routes, covering 7,325 stations across India.
• Mail or Express trains, the most common types of trains, run at an average speed of 50.6 km/h.
• India has the fourth largest railway network with over 22,593 operating trains with a daily passenger count of 24 million passengers and 203.88 million tonnes of freight.
• India's railway network is recognised as one of the largest railway systems in the world under single management.
• The passenger traffic in the railway sector dropped to around 1.3 billion across India in fiscal year 2021. The significant decrease was mainly due to the impact of the coronavirus pandemic.
• Passenger rail traffic from India's suburbs was much higher than the non-suburban rail traffic at the end of fiscal year 2018.

Additional Information

• Indian Railways
• Indian Railways is a statutory body under the ownership of Ministry of Railways, Government of India that operates India's national railway system.
• Ashwini Vaishnaw is the current railway minister.
• It manages the fourth largest national railway system in the world by size, with a total route length of 67,956 km as of 31 March 2022.

Q86. Answer: (d) Mohiniyattam

Correct answer is Mohiniyattam.

Key Points

• Kalamandalam Kshemavathy Pavithran
• Kalamandalam Kshemavathy Pavithran was awarded the Padma Shri in 2011 for her contributions to Mohinyattam.
• She has also achieve the Sangeet Natak Akademi Award, and Nrithya Natya Puraskara.
• Kshemavathy is famous for her abhinaya and traditionalist approach to the art form.
• She has done a lot of innovative choreographies.

Additional Information

• Yamini Krishnamurthy is one of the notable Bharatanatyam and Kuchipudi.
• Kuchipudi is one of the eight major Indian classical dances.
• Bharatanatyam is a major form of Indian classical dance that originated in Tamil Nadu.
• Kathak is one of the eight major forms of Indian classical dance.

Q87. Answer: (b) The Inheritance of Loss

Correct answer is The Inheritance of Loss.

Key Points

• The title of the novel The Inheritance or Loss is meant to encapsulate the generational continuation of loss that these immigrants

have experienced.

• The story is about the lives of Biju and Sai.

• Biju is an Indian living in the United States illegally, son of a cook who works for Sai's grandfather.

• Sai is an orphan living in mountainous Kalimpong with her maternal grandfather, Jemubhai Patel; the cook; and a dog named Mutt.

Additional Information

• The Ministry of Utmost Happiness is the second novel by Indian writer Arundhati Roy, published in 2017.

• Midnight's Children is a 1981 novel by British-Indian writer Salman Rushdie.

• The Golden House is a 2017 novel by Salman Rushdie.

Q88. Answer: (a) Bharatanatyam

Correct answer is Bharatanatyam.

Key Points

• Bharatanatyam

• In 2011, C V Chandra Shekhar was honoured with the Padma Bhushan by the Government of India for Bharatanatyam.

• Bharatnatyam was associated with Devadasi Culture.

• Bharatanatyam is a major form of Indian classical dance that originated in Tamil Nadu.

• The dance form is also compactly mentioned in Kannada text Manasollasa written by Someshwara III.

Additional Information

• Kathakali

• The purpose of Kathakali Theatre is to tell and honor stories through the medium of dance.

• Kathakali or 'story play' took shape in Kerala in southern India in the seventeenth century under the patronage of the prince of Karnataka.

• Manipuri

• The Manipuri Dance, also known as the Manipuri Raas Leela, is one of the eight major Indian classical dance forms, originating from the state of Manipur.

• Kathak

• Kathak is one of the eight major forms of Indian classical dance.

• It is the classical dance form of Uttar Pradesh.

Q89. Answer: (b) Louis Pasteur

Correct answer is Louis Pasteur.

Key Points

• Louis Pasteur

• In the 1850s and 1860s, the French chemist and microbiologist Louis Pasteur became the first scientist to study fermentation, when he demonstrated that this process was performed by living cells.

• Pasteur is also known as one of the fathers of germ theory of diseases, which was a minor medical concept at the time.

• His works are ascribe to saving millions of lives through the developments of vaccines for rabies and anthrax.

• Pasteur was in charge for disproving the doctrine of spontaneous generation.

Additional Information

• Alexander Fleming

• Alexander Fleming was a Scottish physician-scientist who was recognised for discovering penicillin.

• Angelina Fanny

• Angelina Fanny Hesse was the first to propose the use of agar as a culture media for growing and isolating bacteria.

• Martinus Willem Beijerinck

• Martinus Willem Beijerinck was the first to recognize that viruses are reproducing entities that are different from other organisms.

Q90. Answer: (d) Mridangam

Correct answer is Mridangam.

Key Points

• Rajna Swaminathan

• Rajna Swaminathan, who is based in Maryland, U.S., also took up Carnatic vocal and Bharatanatyam classes, but chose to specialise in the mridangam.

• Rajna is born into a musical family — her late mother was a singer and her father plays the mridangam.
• The mridangam is a percussion instrument of ancient origin.
• One of the most ancient drums of India, the mridangam, which literally means 'body of clay,' originated in South India.

Additional Information

• The violin, also known as a fiddle, is a wooden chordophone in the violin family.
• Most violins have a hollow wooden body.
• The flute is a family of classical music instrument in the woodwind group.
• The veena comprises various chordophone instruments from the Indian subcontinent.

Q91. Answer: (b) Nishad Kumar

The correct answer is Nishad Kumar.

Key Points

• Nishad Kumar
• Nishad Kumar is an Indian Paralympian high jumper.
• He made his maiden Paralympic Games appearance in 2020 Tokyo representing India.
• He went on to claim the silver medal in the men's high jump T47 category with a new Asian record of 2.06m.
• He took up the sport of para-athletics in 2009.
• In November 2019, he won the bronze medal in the men's T47 category at the 2019 World Para Athletics Championships.
• He also became the second Indian to win a medal at the 2020 Summer Paralympics after Bhavina Patel.
• He was honored with the Arjuna Award in 2021.

Additional Information

• Arjuna Award
• The Arjuna Award is officially known as Arjuna Awards for Outstanding Performance in Sports and Games.
• It is the second-highest sporting honor of India.
• The award is named after Arjuna, one of the characters of the Sanskrit epic Mahabharata of ancient India.
• It is awarded annually by the Ministry of Youth Affairs and Sports.
• The nominations for the award are received from all government-recognized
• National Sports Federations
• Indian Olympic Association
• Sports Authority of India (SAI)
• Sports Promotion and Control Boards

Q92. Answer: (b) Pteridophyta

The correct answer is Pteridophyta.

Key Points

• Pteridophytes
• Pteridophytes are vascular plants that reproduce using spores.
• They do not produce flowers and seeds and hence are also known as cryptogams.
• They have a well-differentiated plant body into root, stem and leaves.
• Pteridophytes are found in moist, shady and damp places.
• They are found in crevices of rocks, bogs and swamps, and tropical trees.
• They are one of the very first “true” plants to adapt to life on land.

Additional Information

• Angiosperm
• Angiosperms are vascular plants with stems, roots, and leaves.
• The seeds of the angiosperm are found in a flower.
• These make up the majority of all plants on earth.
• The seeds develop inside the plant organs and form fruit. Hence, they are also known as flowering plants.
• They can grow in various habitats as trees, herbs, shrubs, and bushes.
• Bryophyta
• Bryophyta are land plants, especially the non-vascular ones.
• This division includes-

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• Mosses
• Liverworts
• Hornworts
• Plants in this category do not have roots but have crude stems and leaves.
• Gymnosperm
• Gymnosperms are a group of plants that produce seeds not enclosed within the ovary or fruit.
• It belongs to kingdom ‘Plantae‘ and sub-kingdom ‘Embryophyta’.
• The family of gymnosperms consist of conifers, the cycads, the gnetophytes.

Q93. Answer: (b) John Dalton

The correct answer is John Dalton.

Key Points

• Dalton's law
• Dalton's law states that in a mixture of non-reacting gases, the total pressure exerted is equal to the sum of the partial pressures of the individual gases.
• This empirical law was observed by John Dalton in 1801.
• It was published in 1802.
• It is also called Dalton's law of partial pressures.
• Dalton's law is related to the ideal gas laws.
• Dalton's law is not strictly followed by real gases, with the deviation increasing with pressure.

Additional Information

• John Dalton
• John Dalton FRS was an English chemist, physicist, and meteorologist.
• He is best known for introducing the atomic theory into chemistry, and for his research into color blindness.
• Colour blindness is known as Daltonism in several languages.
• Discovered a way to find the atomic weight of elements namely Hydrogen, Oxygen, Nitrogen, Phosphorus, Carbon, and Sulfur.
• He also developed Dalton's Law which is the law of partial pressures.

Q94. Answer: (d) Hydrological cycle

The correct answer is Hydrological cycle.

Key Points

• Hydrological cycle
• The hydrologic cycle involves the continuous circulation of water in the Earth-Atmosphere system.
• It is also called as the water cycle.
• During this process, water changes its state from one phase to another, but the total number of water particles remains the same.
• Water changes its state through a variety of processes from
• evaporation
• melting
• freezing
• sublimation
• condensation
• deposition
• The major 4 steps are evaporation of water, then condensation, precipitation and collection.

Additional Information

• Carbon cycle
• The carbon cycle is nature's way of recycling carbon atoms.
• In this cycle carbon atoms continually travel from the atmosphere to the Earth and then back into the atmosphere.
• The four steps are Photosynthesis, Decomposition, Respiration and Combustion.
• Nitrogen cycle
• Nitrogen Cycle is a biogeochemical process through which nitrogen is converted into many forms.
• It is consecutively passing from the atmosphere to the soil to the organism and back into the atmosphere.
• It involves several processes such as nitrogen fixation, nitrification, denitrification, decay and putrefaction.

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• Geological cycle
• The continuous process in which hot, molten material coming to the surface of the Earth from the interior forms igneous rocks.
• There are four types of a geological cycle:
• tectonic sub-cycle
• hydrologic sub-cycle
• rock sub-cycle
• biogeochemical sub-cycle

Q95. Answer: (a) Arun Jaitley cricket stadium - Bengaluru

The correct answer is Arun Jaitley cricket stadium - Bengaluru.

Key Points

• Arun Jaitley Stadium
• Arun Jaitley Stadium is a cricket stadium located at Bahadur Shah Zafar Marg, New Delhi.
• It was established in 1883 as the Feroz Shah Kotla Stadium.
• It is the second oldest international cricket stadium still functional in India.
• Since 2008 the stadium has been the home venue of the Delhi Capitals of the Indian Premier League.
• This stadium hosted ODI matches when India hosted the Cricket World Cup in 1987, 1996, and 2011.

Additional Information

• Eden Garden
• Eden Gardens is a cricket ground in Kolkata, India.
• It was established in 1864.
• It is the oldest and second-largest cricket stadium in India and the third-largest in the world.
• The stadium currently has a capacity of 66,000.
• Narendra Modi cricket stadium
• The Narendra Modi Stadium is a cricket stadium situated in Ahmedabad, India.
• As of 2022, it is the largest stadium in the world.
• It has a seating capacity of 132,000 spectators.

Q96. Answer: (c) Gujarati

The correct answer is Gujarati.

Key Points

• 'The Story of my Experiments with Truth' is the autobiography of Gandhi.
• In which he tells about his life; right from his early life in Porbandar all the way to his youth in England and how he stuck to the power of truth.
• The book was originally written in Gujarati.
• It was translated by a close associate of Mahatma Gandhi, Mr. Mahadev Desai.
• This book is more like a window that lets the reader see through the life of a legend.

Additional Information

• The Story of My Experiments with Truth is the autobiography of Mahatma Gandhi, covering his life from early childhood through to 1921.
• It was written in weekly installments and published in his journal Navjivan from 1925 to 1929.
• Its English translation also appeared in installments in his other journal Young India.
• It was initiated at the insistence of Swami Anand and other close co-workers of Gandhi.
• In 1998, the book was designated as one of the "100 Best Spiritual Books of the 20th Century".

Q97. Answer: (a) Ravi Kumar Dahiya

The correct answer is Ravi Kumar Dahiya.

Key Points

• Ravi Kumar Dahiya
• Ravi Kumar Dahiya is an Indian freestyle wrestler.
• He won a silver medal at the 2020 Tokyo Olympics in the 57 kg category.
• Dahiya is also a bronze medallist from the 2019 World Wrestling Championships and a three-time Asian champion.
• In the 2022 Birmingham Commonwealth Games, he won the gold medal in the men's 57 kg freestyle wrestling category.

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• He was ranked fifth at the 2019 Asian Wrestling Championships in Xi'an.

Additional Information

• Sushil Kumar

• Sushil Kumar Solanki is a former Indian wrestler.

• He carried the Indian flag at the opening ceremony of the 2012 London Olympics.

• In July 2009, he received the Major Dhyan Chand Khel Ratna.

• Sushil won the gold medal in the 74 kg division at the 2014 Commonwealth games.

• Bajrang Punia

• Bajrang Punia is an Indian freestyle wrestler.

• He competes in the 65-kg weight category.

• At the 2020 Tokyo Olympics, Punia won a bronze medal.

• Punia is the only Indian wrestler to win 3 medals at the World Wrestling Championships.

• KD Jadhav

• Khashaba Dadasaheb Jadhav was an Indian athlete.

• He is best known as a wrestler who won a bronze medal at the 1952 Summer Olympics in Helsinki.

• He was the first athlete from independent India to win an individual medal in the Olympics.

Q98. Answer: (a) Epsom salt

The correct answer is Epsom salt.

Key Points

• Epsom salt (magnesium sulfate) is a chemical compound comprised of magnesium, oxygen, and sulfur.

• It is commonly dissolved in baths and used as a home remedy.

• It is rumored that absorbing magnesium through the skin can provide numerous health benefits.

• Epsom salts have been used for many years for conditions ranging from insomnia to constipation.

• It is used to relax muscles and relieve pain in the shoulders, neck, back, and scalp.

• Epsom salt baths aren’t recommended for people with:

• Severe skin inflammation

• Skin infections

• Open wounds

• Severe burns

Additional Information

• Epsom salt is one of many naturally occurring mineral salts.

• It is a compound of magnesium and sulfate in rock-like formations.

• It gets its name from the town of Epsom in Surrey, England, where it was originally discovered.

• The salt was supposedly discovered about 400 years ago.

• It has an appearance similar to table salt and is often dissolved in baths.

Q99. Answer: (a) Basketball

The correct answer is Basketball.

Key Points

• The term 'dribble' is used in Basketball.

• In basketball, dribbling is bouncing the ball on the floor continuously with one hand at a time.

• It is the only legal way that a player may maintain possession of the ball while walking or running.

• The dribble allows for much faster advancement and thus more opportunities for scoring.

• It also provides an opportunity for a crafty player on the opposing team to "steal" the ball in mid-bounce.

• Dribbling should be done with finger pads and the fingers should be relaxed and spread.

• The wrist should be pushing the basketball, and the forearm should be moving up and down.

Additional Information

• Basketball is a team sport in which there are two teams of five players each.

• Players advance the ball by bouncing it while walking or running (dribbling) or by passing it to a teammate.

• On offense, players may use a variety of shots – the layup, the jump shot, or a dunk; on defense.

• They may steal the ball from a dribbler, intercept passes, or block shots; either offense or defense may collect a rebound.

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• It is a violation to lift or drag one's pivot foot without dribbling the ball, to carry it, or to hold the ball with both hands and then resume dribbling.

Q100. Answer: (a) Tropical zone

The correct answer is Tropical zone.

Key Points

• Tropical Zone

• The tropics are regions of the Earth that lie roughly in the middle of the globe.

• The tropics between the latitude lines of the Tropic of Cancer and the Tropic of Capricorn.

• It includes the Equator and parts of North America, South America, Africa, Asia, and Australia.

• It accounts for 36% of the Earth's landmass and is home to about a third of the world's people.

• It is warm all year, averaging 25 to 28 degrees Celsius (77 to 82 degrees Fahrenheit).

• It gets more than 59 inches of rainfall each year.

Additional Information

• Temperate zone

• The temperate zone lies between 23.5 degrees and 66.5 degrees in the north and south hemispheres.

• It is characterized by the temperate climate i.e. mild, moderate temperature; neither hot nor cold.

• The North Temperate Zone is situated between the Arctic Circle and the Tropic of Cancer.

• The South Temperate Zone is situated between the Antarctic Circle and the Tropic of Capricorn.

• It is characterized by having a climate that is warm in the summer, cold in the winter, and moderate in the spring and fall.

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