SSC CHSL Tier-1 2024: Official Paper (Held On: 11 Jul, 2024 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2024 • 100 questions • 60 minutes • Answer key and solutions

Take this paper as a timed mock test

Practise under exam conditions, then review your answers after you submit.

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ENGLISH LANGUAGE

Q1. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The teacher will / certainly help you / if you will / ask her.

(a) ask her
(b) if you will
(c) The teacher will
(d) certainly help you

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

My Vice-Chancellor works / eighteen hours / a day, / seven days week.

(a) seven days week.
(b) My Vice-Chancellor works
(c) eighteen hours
(d) a day,

Q3. Identify the error in the tense of the sentence and select the option that correctly rectifies the error.

Between two evils, I always picks the one I have never tried before.

(a) Between two evils, I always picking the one I have never tried before.
(b) Between two evils, I always is picking the one I have never tried before.
(c) Between two evils, I always pick the one I have never tried before
(d) Between two evils, I always picked the one I have never tried before.

Q4. The following sentence has been divided into three segments. Identify the segment that contains a grammatical error. If you don't find any error, select 'No error' as your answer.

It was possible to achieve anything, / if one has the grit and determination / to keep going.

(a) No error
(b) to keep going.
(c) if one has the grit and determination
(d) It was possible to achieve anything,

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.

Organic agriculture offers a means to substitute costlier agricultural inputs such as HYV seeds, chemical fertilisers and pesticides with locally produced organic inputs that are cheaper and thereby generate good returns on ____1__. Organic agriculture also generates income through exports as the demand for organically grown crops is on a _2_. Studies across countries have shown that organically grown food has more nutritional value than chemical farming, thus providing us with healthy foods. Since organic farming requires more labour input than __3_ farming, India will find organic farming an attractive____4. Finally, the produce is pesticide-free and produced in an environmentally 5__ way.

Q5. Select the most appropriate option to fill in blank number 1.

(a) loss
(b) investment
(c) expenditure
(d) profit

Q6. Select the most appropriate option to fill in blank number 2.

(a) rise
(b) growth
(c) stagnation
(d) decline

Q7. Select the most appropriate option to fill in blank number 3.

(a) insipid
(b) mechanical
(c) conventional
(d) rigorous

Q8. Select the most appropriate option to fill in blank number 4.

(a) obstacle
(b) proposition
(c) challenge
(d) burden

Q9. Select the most appropriate option to fill in blank number 5.

(a) innovative
(b) harmful
(c) sustainable
(d) destructive

Q10. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Peter was the last to know that she had been cheating of him.

(a) cheating in him
(b) cheating on him
(c) cheating up him
(d) cheat of him

Q11. Select the most appropriate option to fill in the blank.

The guard did not want anything bad to happen, so he ordered the group to step back to avoid anything _____.

(a) terrible
(b) habitual
(c) diplomatic
(d) customary

Q12. Select the most appropriate option to fill in the blank and complete the sentence.

You just wait in the lobby. I will be back after _____.

(a) a quick shower
(b) a quick food
(c) a fast shower
(d) a fast meal

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’.

The film was made in Botswana, whose wildlife parks is larger to those in Kenya.

(a) are large than

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(b) No substitution required
(c) as large than
(d) are larger than

Q14. Select the option that will improve the underlined part of the given sentence.
Neither Janki or I am to receive the award.
(a) nor
(b) either
(c) no
(d) not

Q15. Select the correctly spelt word.
(a) Quintessintial
(b) Quintesential
(c) Quientessential
(d) Quintessential

Q16. Select the most appropriate homophones to fill in the blanks.
I _____ that he has been promoted to the post of ___ officer.
(a) heard; ceiling
(b) herd; sealing
(c) heard; sealing
(d) herd; ceiling

Q17. Select the most appropriate synonym of the given word.
Anxiety
(a) Ease
(b) Serenity
(c) Distress
(d) Dilemma

Q18. Select the most appropriate option that can substitute the underlined segment in the given sentence.
He has recovered now and is feeling too strong to walk.
(a) too weak to walk
(b) weak enough to walk
(c) strong enough to walk
(d) strong to walk

Q19. Select the most appropriate meaning of the underlined idiom in the given sentence.
Every piece of furniture in her house is in apple-pie order.
(a) Painted in light colours
(b) Very neatly arranged
(c) Kept in a disorganised wa
(d) Very delicately arranged

Q20. Select the most appropriate ANTONYM of the given word.
Queer
(a) Eccentric
(b) Fantastic
(c) Ordinary
(d) Doubtful

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Q21. Rectify the sentence by selecting the correct spelling from the options.

Psycology developed as a significant discipline of study in the twentieth century.

(a) Pcychology
(b) Pscichology
(c) Psychology
(d) Pscycology

Q22. Select the most appropriate ANTONYM of the underlined word.

I left the job because of a hostile working environment.

(a) Morose
(b) Friendly
(c) Violent
(d) Rustic

Q23. Select the most appropriate meaning of the given idiom.

To throw dust in one's eyes

(a) To talk in an abusive language
(b) To mislead someone by tricks
(c) To hit someone with stone
(d) To make someone blind forever

Q24. Select the most appropriate homophones to fill in the blanks.

It was against her _____ to earn more _____ than that decided by the board of directors.

(a) principle, profit
(b) principle; prophet
(c) principal; prophet
(d) principal; profit

Q25. Select the most appropriate ANTONYM of the word 'Contaminate' from the given sentence.

Crews were requested to purify the system since a brain-eating amoeba was discovered in the drinking water.

(a) purify
(b) requested
(c) discovered
(d) system

GENERAL INTELLIGENCE

Q26. The position of how many letters will remain unchanged if each of the letters in the word NUCLEAR is arranged in the alphabetical order?

(a) None
(b) One
(c) Three
(d) Two

Q27. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(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/subtracting/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.)

(25, 8, 11)

(28, 8, 12)

(a) (15, 5, 8)
(b) (17, 7, 8)
(c) (42, 6, 21)

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(d) (22, 13, 19)

Q28. 13 is related to 156 following a certain logic. Following the same logic, 22 is related to 264. To which of the following is 31 related following the same logic?

(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) 374
(b) 376
(c) 372
(d) 370

Q29. CEHM is related to YADI in a certain way based on the English alphabetical order. In the same way, IKNS is related to EGJO. To which of the following is OQTY related, following the same logic?

(a) KOPU
(b) KMPU
(c) KNPU
(d) KNOU

Q30. In a certain code language. ‘DARK’ is coded as ‘3975’ and ‘READ’ is coded as '5873’. How is 'K’ coded in the given language?

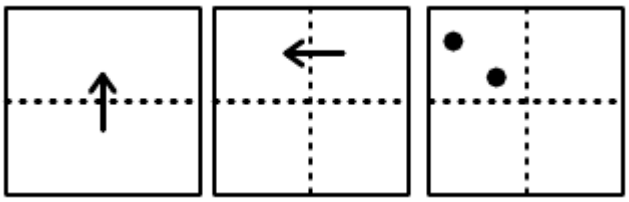
(a) 5
(b) 3
(c) 7
(d) 9

Q31. What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and ‘×' and '÷' are interchanged?

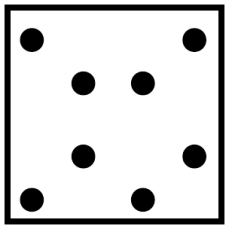
17 ÷ 4 - 28 + 125 × 5 =?

(a) 71
(b) 73
(c) 72
(d) 74

Q32. A square sheet of paper is folded along the dotted Line successively along the directions shown and is then punched in the last. How would the paper look when unfolded?

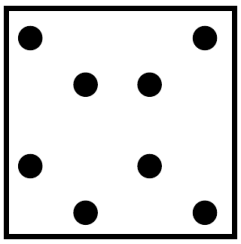


(a)

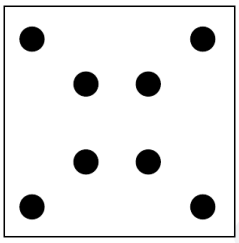


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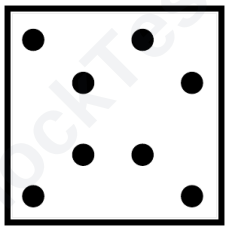
(b)



(c)



(d)



Q33. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related io each other based on the number of letters/number of consonants/vowels in the word)

Compress : Expand

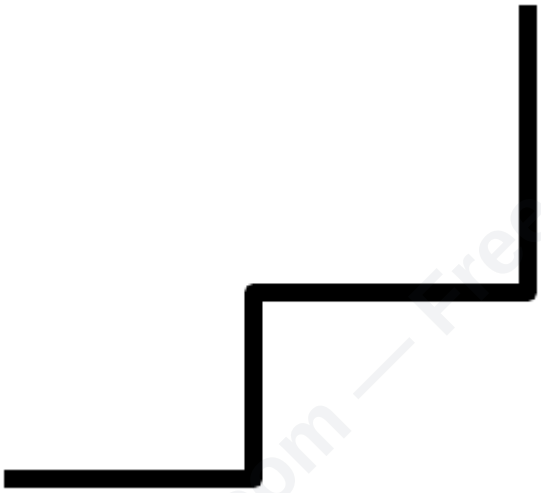
(a) Limit : Boundless
(b) Hopeful : Optimistic
(c) Observe : Notice
(d) Defend : Protect

Q34. In a certain code language, 'TWIN' is coded as 2359 and ‘WING’ is coded as 5302. What is the code for ‘T' in the given code language?

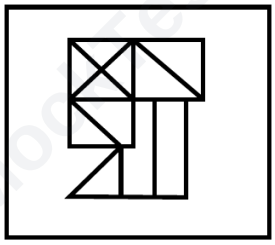
(a) 5
(b) 3
(c) 2
(d) 9

Q35. Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).

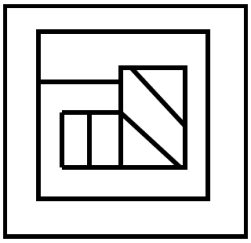
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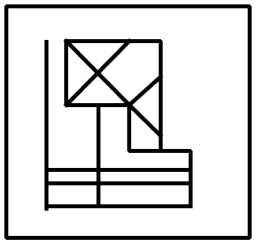
(a)



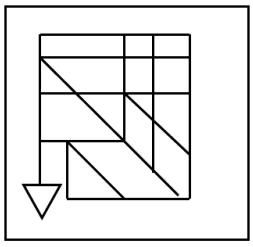
(b)



(c)

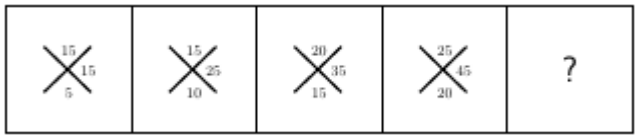


(d)

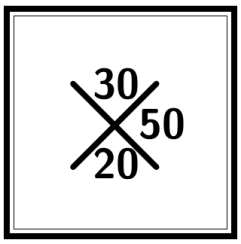


Q36. Identify the figure in the options that when put in place of the question mark (?) will logically complete the series?

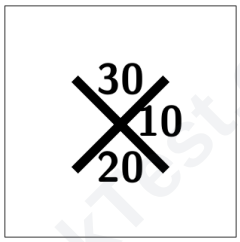
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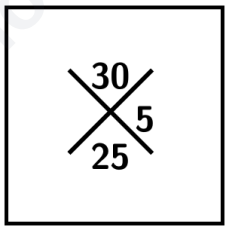
(a)



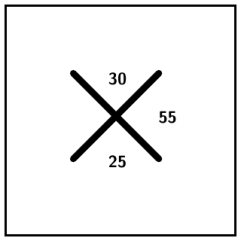
(b)



(c)

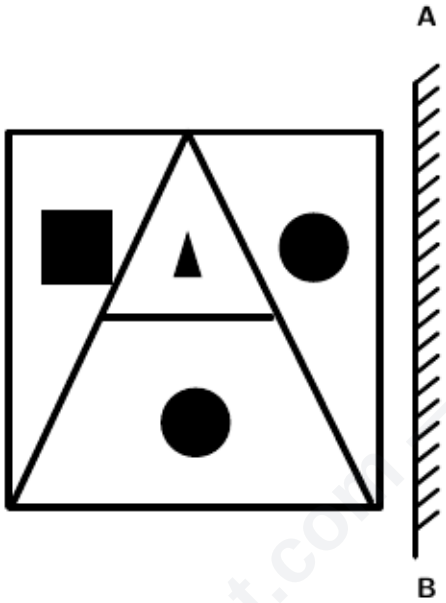


(d)

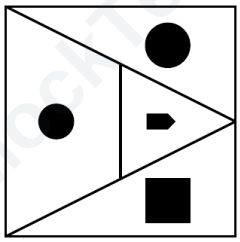


Q37. Select the correct mirror image of the given figure when the mirror is placed at AB.

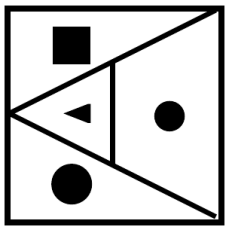
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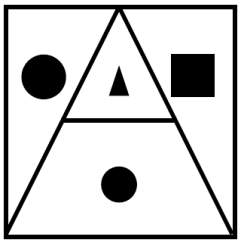
(a)



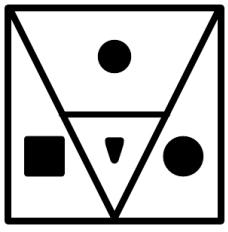
(b)



(c)



(d)



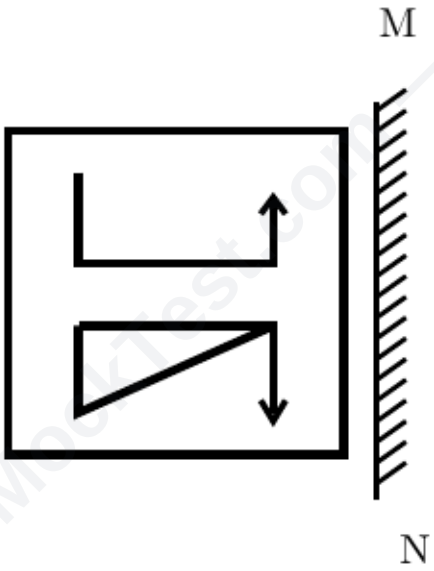
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Q38. Three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

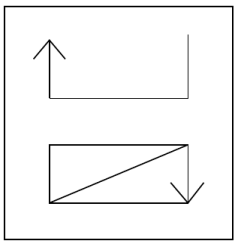
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

(a) JNP
(b) HKM
(c) RVX
(d) CGI

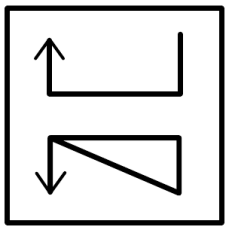
Q39. Select the correct mirror image of the given figure when the mirror is placed at MN, as shown.



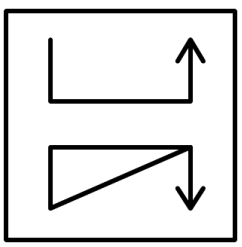
(a)



(b)

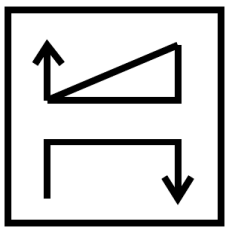


(c)



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(d)



Q40. Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



(a)



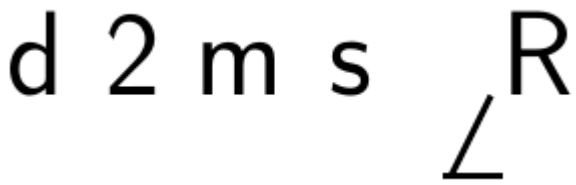
(b)



(c)



(d)



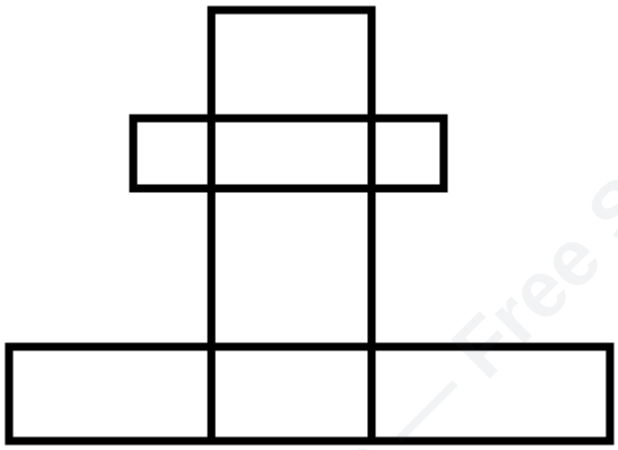
Q41. Which of the following numbers will replace the question mark (?) in the given series?

800 400 480 240 320 ?

(a) 200
(b) 120
(c) 180
(d) 160

Q42. How many rectangles are there in the figure?

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(a) More than 17
(b) 15
(c) 17
(d) 16

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

JIG_KG_U_EGZM_GE

(a) NGMC
(b) NGCL
(c) PGMC
(d) PGLC

Q44. If 18 January 2013 was Friday, then what was the day of the week on 19 December 2021?

(a) Thursday
(b) Sunday
(c) Saturday
(d) Wednesday

Q45. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

a _ z b _ y c _ x _ a z _ b y c c _ a a _ b b _ c c x _ a z _ b y _ c x

(a) bacabzxyabc
(b) bacazbxyacb
(c) acbacxzyabc
(d) abcabxzyabc

Q46. If ‘A’ stands for '÷', 'B' stands for ‘×', 'C; stands for ‘+' and 'D' stands for ‘-', what will come in place of the question mark (?) in the following equation?

5 B 5 C 216 A 9 D 3 = ?

(a) 23
(b) 64
(c) 46
(d) 32

Q47. Three statements are followed by conclusions numbered I, II. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statement.

Statements:

All ground is wind.

Some tables are ground.

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All wind is earth.

Conclusion (I): No tables are earth.

Conclusion (II): All earth is ground.

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

Q48. In a certain code language,

'A + B' means 'A is the sister of B',

'A – B' means 'A is the brother of B',

'A × B' means 'A is the father of B',

'A ÷ B' means 'A is the daughter of B'.

Based on the above, how is K related to P if 'J ÷ K + L × O – P'?

(a) Mother
(b) Mother's sister
(c) Sister
(d) Father's sister

Q49. What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?

24 ÷ 9 + 182 × 13 - 2 = ?

(a) 238
(b) 172
(c) 224
(d) 204

Q50. What should come in place of the question mark (?) in the given series?

50, 51, 54, 55, 58, ?

(a) 59
(b) 60
(c) 64
(d) 62

QUANTITATIVE APTITUDE

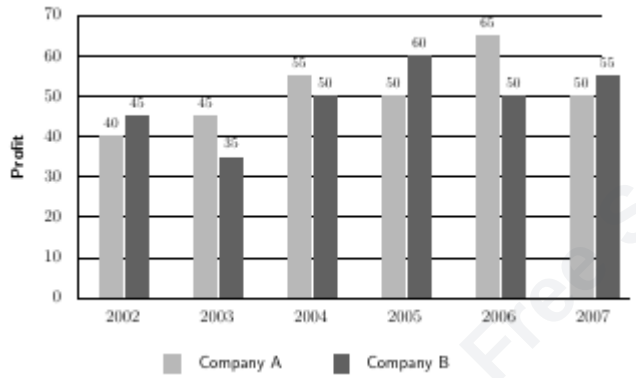
Q51. The cost price of a fan is Rs. 4,400. A merchant wants to make a 24% profit by selling it. At the time of sale, merchant declares a discount of 12% on the marked price. Find the marked price.

(a) Rs. 6,200
(b) Rs. 2,600
(c) Rs. 2,060
(d) Rs. .6,020

Q52. Study the following graph and answer the question that follows.

The following bar graph shows the percentage profit earned by two companies A and B over the given years.

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The incomes of two companies A and B in 2006 were in the ratio 3 : 4, respectively. What was the respective ratio of their expenditures in 2006?

(a) 14 : 19
(b) 7 : 22
(c) 15 : 22
(d) 27 : 35

Q53. In two successive years, 75 and 50 employees of a company appeared at the departmental examination. Respectively, 84% and 52% of them passed. The average rate of pass percentage is:

(a) 41%
(b) 71%
(c) 411/5%
(d) 711/5%

Q54. The surface area of a spherical ball is 1386 cm^2. What will be its volume?

(a) 4825 cm^3
(b) 4800 cm3
(c) 4851 cm3
(d) 5000 cm3

Q55. The table shows the percentage distribution of the population (only male and female) according to Gender and Literacy.

State	Percentage literate	Gender	
Literate	Illiterate		
M : F	M : F		
A	55	5 : 6	4 : 5
B	72	1 : 1	3 : 2
C	78	4 : 3	3 : 2

If state B has 7 crore people, then the number of illiterate females in the state is:

(a) 117.6 lakhs
(b) 78.4 lakhs
(c) 201.6 lakhs
(d) 130.67 lakhs

Q56. Two circles of radii 3 units and r units, respectively, have a 6 units distance between their centers. If the length of the direct common tangent is √35 units, then the value of r is _____ units.

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

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Q57. Find the mean proportion to 0.72 and 2.85 (round up to one decimal place).

(a) 0.4
(b) 2.8
(c) 0.7
(d) 1.4

Q58. ΔABC ∼ ΔEDF and area (ΔABC) :area (ΔEDF) = 1 : 4. If AB = 7 cm, BC = 8 cm and CA = 9 cm, then DF is equal to:

(a) 18 cm
(b) 12 cm
(c) 16 cm
(d) 14 cm

Q59. The price of a product increases by 10% in the first year and 20% in the second year. What is the overall percentage increase in the price of the product over the two years?

(a) 28%
(b) 36%
(c) 30%
(d) 32%

Q60. In how many years will a sum of Rs. 4,250 yield a simple interest of Rs. 510 at a rate of 6% per annum?

(a) 31/2 years
(b) 3 years
(c) 21/2 years
(d) 2 years

Q61. Shantanu's income decreased from Rs. 42,800 to Rs. 37,236. Find the percentage decrease in his income.

(a) 13%
(b) 11%
(c) 14%
(d) 12%

Q62. A shopkeeper sold an article at a 26% profit. On selling it for Rs. 2,250 more, he would get a profit of 41%. If this article is sold at 12% profit, then the selling price would be:

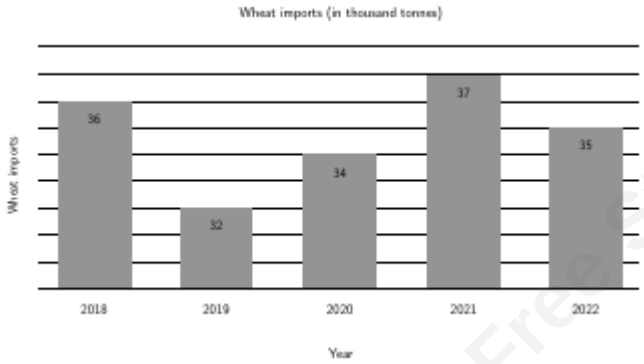
(a) Rs. 16,800
(b) Rs. 15,000
(c) Rs. 16,120
(d) Rs. 15,800

Q63. Simplify (sin 60°-cos 60°)/(sin 60°+cos 60°)

(a) √3 - 2
(b) √3 - 1
(c) 2 - √3
(d) 2 + √3

Q64. The following graph shows the wheat imports (in thousand tonnes) over the five years:

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What is the ratio of the years which have below-average imports to those which have above-average imports?

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

Q65. Out of a class of 200 people, 50 people's average marks is 40, and the remaining 150 people's average is 60. Find the people's weighted average.

(a) 150
(b) 200
(c) 50
(d) 55

Q66. Let C be a circle with center O and PQ be the diameter of C. Let AB be a chord on C. If angle QOB = 40°, angle AOP = 80°, then find angle AOB.

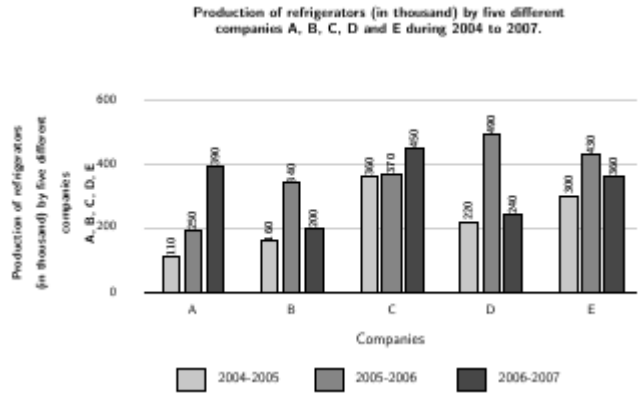
(a) 70°
(b) 100°
(c) 60°
(d) 90°

Q67. The value of 11/3÷ [21/6÷ {141/3-(21/3+31/2)}] is:

(a) 43/17
(b) 32/17
(c) 53/13
(d) 32/13

Q68. Study the given bar-graph and answer the question that follows.

The bar-graph shows the production of refrigerators (in thousand) by five different companies A, B, C, D and E during 2004 to 2007.



What is the difference between 60% of the average production of refrigerators by all the companies for the year 2005-2006 and 70% of the average of all the companies in 2006-2007?

(a) 4000
(b) 4

(c) 400
(d) 40

Q69. Teena does half of a task in 6 days. Later, with Shyam's help, she completes the remaining work in 4 days. Shyam alone can finish the entire work in:
(a) 12 days
(b) 18 days
(c) 24 days
(d) 21 days

Q70. If 640 ÷ 8 + 930 ÷ 15 – k + 32 × 5 = 1104 ÷ 16 × 148 ÷ 37, then the value of k is:
(a) 276
(b) 302
(c) 35
(d) 26

Q71. Find the whole surface area of a cuboid having a length of 19 cm, breadth of 9 cm and height of 4.5 cm.
(a) 594 cm^2
(b) 497 cm2
(c) 619 cm2
(d) 917 cm2

Q72. The sum of the present ages of a father and son is 50 years. If after 5 years, the father's age will be 5 times the age of the son, then what was the father's age 5 years ago?
(a) 43
(b) 47
(c) 40
(d) 36

Q73. If the speed of a boat in still water is 3 km/h and if its speed upstream is 1 km/h, find the speed of the stream.
(a) 0.25 km/h
(b) 0.5 km/h
(c) 1 km/h
(d) 2 km/h

Q74. ΔABC and ΔDEF are similar triangles, and their areas are 81 cm^2 and 144 cm^2, respectively. If EF = 20 cm, then what is the value of BC?
(a) 15 cm
(b) 9 cm
(c) 12 cm
(d) 13 cm

Q75. There are two circles touching each other externally. The radius of the first circle with centre O is 12 cm. The radius of the second circle with centre A is 5 cm. Find the length of their common tangent touching the two circles at points P and Q.
(a) 5√14 cm
(b) 4√15 cm
(c) 5√41 cm
(d) 14√5 cm

GENERAL AWARENESS

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Q76. In badminton, 0 points is called _____.

(a) play
(b) out
(c) in
(d) love

Q77. Which of the following Sections of the Indian Penal Code deals with 'rape'?

(a) Section 370
(b) Section 375
(c) Section 385
(d) Section 380

Q78. What is a revenue deficit in the government budget?

(a) The excess of expenditure over revenue, excluding interest payments on debt
(b) The excess of revenue over expenditure, excluding interest payments on debt
(c) The excess of revenue over expenditure, including interest payments on debt
(d) The excess of expenditure over revenue, including interest payments on debt

Q79. Which Article of the Constitution of India vests plenary powers in Parliament to legislate on the subject of citizenship?

(a) Article 11
(b) Article 5
(c) Article 8
(d) Article 6

Q80. Match India's neighbouring countries in column A with their official languages in column B.

Column A (Country names)	Column B (Official Languages)		
1.	Sri Lanka	a.	Mandarin
2.	China	b.	Burmese
3.	Myanmar	c.	Tamil
4.	Bhutan	d.	Dzongkha

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

Q81. What is the keyboard shortcut for inserting a new slide into an MS-PowerPoint presentation?

(a) Ctrl + X
(b) Ctrl + M
(c) Ctrl + S
(d) Ctrl + N

Q82. In which of the following years was the Juvenile Justice (Care and Protection of Children) Act, 2015 amended?

(a) 2013
(b) 2021
(c) 2019
(d) 2015

Q83. In Microsoft Word, the Mail Merge Wizard is located under the _____ tab.

(a) Review
(b) Insert
(c) Mailings

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(d) Home

Q84. What is the name of the famous British social reformer known for founding the Indian Home Rule League in 1916?

(a) Anne Knight
(b) Annie Besant
(c) Catherine Osler
(d) Maria Rye

Q85. Which folk music does NOT belong to Tamil Nadu?

(a) Villu Pattu
(b) Ammanaivari
(c) Nattupura
(d) Khubakeshei

Q86. Select the INCORRECT pair of the location of the refinery and its state from the following

(a) Numaligarh Refinery – Assam
(b) Tatipaka Refinery – Telangana
(c) Bina Refinery – Madhya Pradesh
(d) Koyali Refinery – Gujarat

Q87. Which of the following is a rare group of genetic disorders caused by mutations of certain genes affecting the colour (pigmentation) of the skin, hair and eyes?

(a) Angelman syndrome
(b) Alkaptonuria
(c) Alagille syndrome
(d) Albinism

Q88. The Lucknow Gharana which came into existence in the time of Wajid Ali Shah was developed by who among the following?

(a) Pandit Bindawar Prasad
(b) Pandit Kalka Prasad
(c) Pandit Thakur Prasad
(d) Ustad Bakhtawar Khan

Q89. Which of the following statements is INCORRECT with respect to High Yielding Varieties (HYVs)?

(a) HYVs led to decrease in the cropping intensity.
(b) HYVs had a shorter period of maturity.
(c) They made green revolution technology as land-saving technology.
(d) The usage of HYVs was complemented with the attraction of more investment in farm machines.

Q90. Who was the chief guest at the first Republic Day celebration of India in 1950?

(a) Kwame Nkrumah
(b) Gamal Abdel Nasser
(c) Sukarno
(d) Josip Broz Tito

Q91. Who was the Indian Buddhist monk who is credited with the development of many ancient martial art forms in the 5th century?

(a) Bodhiruchi
(b) Bodhidharma
(c) Paramartha
(d) Atisa

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Q92. Which of the following planets does NOT have rings?

(a) Saturn
(b) Uranus
(c) Venus
(d) Jupiter

Q93. Which of the following types is NOT an element of classical Carnatic music?

(a) Kriti
(b) Padam
(c) Thumri
(d) Sthayi

Q94. The Sun Temple at Konark was built under the rule of which dynasty?

(a) Pandya Dynasty
(b) Pallava Dynasty
(c) Eastern Ganga Dynasty
(d) Rashtrakuta Dynasty

Q95. For which of the following discoveries in 1827 was the German physicist, Georg Simon Ohm best known?

(a) For invention of the magnetometer, which is a device capable of measuring the direction and strength of a magnetic field
(b) For developing a device capable of amplifying and modulating electromagnetic signals that could also function as an oscillator
(c) For measuring the magnetic properties of nuclear particles
(d) For clarifying the mathematical relationship between electrical current, resistance and voltage

Q96. As of 2022, which is the tallest hydroelectric power plant in India?

(a) Tehri Hydroelectric Power Plant
(b) Sardar Sarovar Hydropower Plant
(c) Nathpa Jhakri Power plant
(d) Koyna Hydroelectric Power Plant

Q97. In Fencing, a defensive blade movement that blocks the opponent's offensive action is called _____.

(a) redoublement
(b) parry
(c) reprise
(d) saber

Q98. The _____ results from an increase in the proportion of workers relative to nonworkers in the population.

(a) demographic dividend
(b) population momentum
(c) old-age dependency ratio
(d) age structure of population

Q99. From which of the following states was Vibrant Village programme launched, on 10 April 2023?

(a) Mizoram
(b) Nagaland
(c) Sikkim
(d) Anunachal Pradesh

Q100. Which writ literally means 'what is your authority'?

(a) Quo-Warranto
(b) Prohibition
(c) Mandamus
(d) Habeas Corpus

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) if you will

The correct answer is Option 2)

Key Points

• In conditional sentences, the word "if" is followed by the simple present tense, not "will".

• The correct phrase should be "if you ask her," ensuring grammatical correctness and clarity.

• Thus, the error is located in part 2 of the sentence.

Correct Sentence: "The teacher will certainly help you if you ask her."

Additional Information

• 1: "ask her," – This part of the sentence is grammatically correct and does not require any changes.

• 3: "The teacher will," – This part of the sentence is grammatically correct and does not require any changes.

• 4: "certainly help you," – This part of the sentence is grammatically correct and does not require any changes.

• No error – This would be the correct option if there were no mistakes in the sentence, but there is an error in part 2.

Q2. Answer: (a) seven days week.

The correct answer is Option 1)

Key Points

• The primary issue in the sentence is the omission of the article "a" before the term "week."

• Singular countable nouns typically require an article ("a" or "an").

• The correct phrase should be "seven days a week," ensuring grammatical correctness and clarity.

• Thus, the error is located in Option 1 of the sentence.

Correct Sentence: "My Vice-Chancellor works eighteen hours a day, seven days a week."

Additional Information

• Option 2: "My Vice-Chancellor works" – This part of the sentence is grammatically correct and does not require any changes.

• Option 3: "eighteen hours" – This part of the sentence is grammatically correct and does not require any changes.

• Option 4: "a day" – This part of the sentence is grammatically correct and does not require any changes.

• No error – This would be the correct option if there were no mistakes in the sentence, but there is an error in Option 1.

Q3. Answer: (c) Between two evils, I always pick the one I have never tried before

The correct answer is Option 3)

Key Points

• The primary issue in the sentence is the incorrect use of the verb "picks" which should be in the base form to match the subject "I."

• The correct form of the verb should be "pick" to agree with the subject "I" in the present simple tense.

• The correct sentence should be "Between two evils, I always pick the one I have never tried before" ensuring grammatical correctness and clarity.

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• Therefore, the correct answer is Option 3.

Correct Sentence: "Between two evils, I always pick the one I have never tried before."

Additional Information

• Option 1: "Between two evils, I always picking the one I have never tried before." - This option is incorrect because "picking" is not the correct verb form to use with "I always".

• Option 2: "Between two evils, I always is picking the one I have never tried before." - This option is incorrect because "is picking" is not the correct verb form to use with "I always".

• Option 4: "Between two evils, I always picked the one I have never tried before." - This option is incorrect because "picked" is in the past tense, which does not fit the context.

• No error - This would be the correct option if there were no mistakes in the sentence, but there is an error in the verb form.

Q4. Answer: (d) It was possible to achieve anything,

The correct answer is Option 4)

Key Points

• The primary issue in the sentence is the inconsistency in verb tense.

• The phrase "It was possible" is in the past tense, while the phrase "if one has" is in the present tense.

• For the sentence to be grammatically correct, the tenses should be consistent.

• Thus, the error is located in part A of the sentence.

Correct Sentence: "It is possible to achieve anything, if one has the grit and determination to keep going."

Additional Information

• B: "if one has the grit and determination" – This part of the sentence is grammatically correct and does not require any changes.

• C: "to keep going." – This part of the sentence is grammatically correct and does not require any changes.

• No error – This would be the correct option if there were no mistakes in the sentence, but there is an error in part A.

Q5. Answer: (b) investment

The correct answer is Option 2)

Key Points

• The term "generate good returns on" is commonly followed by the word "investment" because it implies that the benefits gained are a result of the resources (money, time, effort) put into organic agriculture.

• The options "loss", "expenditure", and "profit" do not fit as appropriately in the context of returns on resources allocated.

• Using "investment" helps maintain clarity and accurately reflects the idea of gaining benefits from the resources used in organic agriculture.

• Therefore, the correct answer is Option 2 (investment).

Correct Sentence: "Organic agriculture offers a means to substitute costlier agricultural inputs such as HYV seeds, chemical fertilisers and pesticides with locally produced organic inputs that are cheaper and thereby generate good returns on investment."

Additional Information

• Moving forward in the passage, other blanks should also be filled contextually to ensure the overall passage makes coherent sense.

• This approach helps in understanding how each blank fits within the context of the surrounding text.

• Consistently using appropriate words to fill blanks ensures readability and comprehensibility of the entire passage.

Q6. Answer: (a) rise

The correct answer is Option 1)

Key Points

• The phrase "is on a" suggests a movement or trend, implying an upward trend in the context of demand for organically grown crops.

• "Rise" is the most appropriate choice as it clearly denotes an increase in demand.

• "Growth" could also be a suitable option but "rise" aligns better with the context of an increase in demand.

• "Stagnation" and "decline" are negative terms that contradict the context of the passage about the increasing demand for organic products.

Therefore, the correct answer is 'rise.'

Correct Sentence: "Organic agriculture offers a means to substitute costlier agricultural inputs such as HYV seeds, chemical fertilisers and pesticides with locally produced organic inputs that are cheaper and thereby generate good returns on investment. Organic agriculture also generates income through exports as the demand for organically grown crops is on a rise."

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Q7. Answer: (c) conventional

The correct answer is Option 3)

Key Points

• The context of the passage contrasts "organic farming" with another type of farming. The term "conventional farming" refers to the traditional methods of farming that use chemical fertilizers, pesticides, and other non-organic inputs.

• The other options, "insipid", "mechanical", and "rigorous", do not specifically describe traditional farming practices.

• "Conventional farming" accurately highlights the difference being addressed and is the most contextually appropriate term.

Therefore, the correct answer is: conventional

Correct Sentence: "Organic agriculture offers a means to substitute costlier agricultural inputs such as HYV seeds, chemical fertilisers and pesticides with locally produced organic inputs that are cheaper and thereby generate good returns on investment. Organic agriculture also generates income through exports as the demand for organically grown crops is on a rise. Studies across countries have shown that organically grown food has more nutritional value than chemical farming, thus providing us with healthy foods. Since organic farming requires more labour input than conventional farming....."

Q8. Answer: (b) proposition

The correct answer is Option 2)

Key Points

• The context suggests that India will find organic farming appealing or favorable, thus making it an attractive proposal or proposition rather than a difficulty or hindrance.

• "Proposition" is the most appropriate choice as it denotes a business idea or plan that is likely to be beneficial or viable.

• The other options, "obstacle", "challenge", and "burden", have negative connotations which do not fit the context of finding organic farming attractive.

Therefore, the correct answer is Option 2 (proposition).

Correct Sentence: "Organic agriculture offers a means to substitute costlier agricultural inputs such as HYV seeds, chemical fertilisers and pesticides with locally produced organic inputs that are cheaper and thereby generate good returns on investment. Organic agriculture also generates income through exports as the demand for organically grown crops is on a rise. Studies across countries have shown that organically grown food has more nutritional value than chemical farming, thus providing us with healthy foods. Since organic farming requires more labour input than conventional farming, India will find organic farming an attractive proposition."

Q9. Answer: (c) sustainable

The correct answer is Option 3)

Key Points

• The context of the passage emphasizes the environmental benefits of organic farming. Therefore, the term used should reflect a positive impact on the environment.

• "Sustainable" is the most appropriate choice as it suggests practices that do not deplete resources or harm ecological balance, aligning with the concept of organic farming.

• The other options, "innovative," "harmful," and "destructive," do not fit the positive environmental context indicated in the passage.

Therefore, the correct answer is Option 3 (sustainable).

Correct Sentence: "Organic agriculture offers a means to substitute costlier agricultural inputs such as HYV seeds, chemical fertilisers and pesticides with locally produced organic inputs that are cheaper and thereby generate good returns on investment. Organic agriculture also generates income through exports as the demand for organically grown crops is on a rise. Studies across countries have shown that organically grown food has more nutritional value than chemical farming, thus providing us with healthy foods. Since organic farming requires more labour input than conventional farming, India will find organic farming an attractive proposition. Finally, the produce is pesticide-free and produced in an environmentally sustainable way."

Q10. Answer: (b) cheating on him

The solution is in Hindi. Read it online.

Q11. Answer: (a) terrible

The solution is in Hindi. Read it online.

Q12. Answer: (a) a quick shower

The solution is in Hindi. Read it online.

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Q13. Answer: (d) are larger than

The correct answer is Option 4)

Key Points

• The primary issue in the sentence is the incorrect comparison phrase "is larger to".

• When comparing sizes, the correct phrase is "are larger than".

• The correct phrase should be "whose wildlife parks are larger than those in Kenya".

• Thus, the error is located in the underlined segment of the sentence.

• Therefore, the correct answer is Option 4.

Correct Sentence: "The film was made in Botswana, whose wildlife parks are larger than those in Kenya.

Q14. Answer: (a) nor

The correct answer is Option 1)

Key Points

• The primary issue in the sentence is the incorrect conjunction "or" used in place of "nor."

• In the construction "neither... nor," "nor" should be used instead of "or."

• The correct phrase should be "Neither Janki nor I am to receive the award," ensuring grammatical correctness and clarity.

• Therefore, the correct answer is Option 1.

Correct Sentence: "Neither Janki nor I am to receive the award."

Additional Information

• Neither... nor: This pair of conjunctions is used to connect two negative alternatives.

• Correct Verb Agreement: When using "neither... nor," the verb should agree with the subject closer to the verb. In this case, "I am" is correct.

• Common Mistake: A common mistake is using "or" instead of "nor" with "neither."

Q15. Answer: (d) Quintessential

The solution is in Hindi. Read it online.

Q16. Answer: (c) heard; sealing

The correct answer is Option 3)

Key Points

• The homophone "heard" refers to perceiving sound, which fits the context of the sentence.

• The homophone "sealing" refers to closing or securing something, which is appropriate for the context of the post of an officer.

• Option 3 correctly uses both homophones to complete the sentence meaningfully.

• Therefore, the correct answer is Option 3.

Correct Sentence: "I heard that he has been promoted to the post of sealing officer."

Additional Information

• Option 1: "heard; ceiling" – While "heard" is correct, "ceiling" does not fit the context of the officer's post.

• Option 2: "herd; sealing" – "Herd" refers to a group of animals and is incorrect in this context.

• Option 4: "herd; ceiling" – Both words are incorrect in this context.

• Option 5: – This option is invalid as it is incomplete or missing.

Q17. Answer: (c) Distress

The solution is in Hindi. Read it online.

Q18. Answer: (c) strong enough to walk

The solution is in Hindi. Read it online.

Q19. Answer: (b) Very neatly arranged

The solution is in Hindi. Read it online.

Q20. Answer: (c) Ordinary

The solution is in Hindi. Read it online.

Q21. Answer: (c) Psychology

The solution is in Hindi. Read it online.

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Q22. Answer: (b) Friendly

The solution is in Hindi. Read it online.

Q23. Answer: (b) To mislead someone by tricks

The solution is in Hindi. Read it online.

Q24. Answer: (a) principle, profit

The correct answer is Option 1)

Key Points

• The word "principle" refers to a fundamental truth or proposition that serves as the foundation for a system of belief or behavior.

• "Profit" refers to the financial gain made in a transaction.

• The other options do not correctly fit the context of the sentence.

• Therefore, the correct answer is Option 1.

Correct Sentence: "It was against her principle to earn more profit than that decided by the board of directors."

Additional Information

• Principle is often confused with principal, which can mean a person who has controlling authority or is a leading performer.

• Profit should not be confused with prophet, which refers to a person regarded as an inspired teacher or proclaimer of the will of God.

• Understanding the context of the sentence helps in choosing the correct homophones.

Q25. Answer: (a) purify

The solution is in Hindi. Read it online.

Q26. Answer: (b) One

Given word: 'NUCLEAR'

After arranged in alphabetical order:

Alphabets	N	U	C	L	E	A	R
Alphabetical order	A	C	E	L	N	R	U

Now,

there is One alphabet "L" will remain unchanged if each of the letters in the word 'NUCLEAR' is arranged in English alphabetical order.

Hence, the correct answer is "Option 2".

Q27. Answer: (b) (17, 7, 8)

The logic followed here is:

Logic: (1st number + 2nd number) ÷ 3 = 3rd number.

Now,

For, 25, 8, 11:

=> (25 + 8) ÷ 3 = 33 ÷ 3 = 11.

For, 28, 8, 12:

=> (28 + 8) ÷ 3 = 36 ÷ 3 = 12.

Similarly, for Option 2: 17, 7, 8:

=> (17 + 7) ÷ 3 = 24 ÷ 3 = 8.

Hence, the correct answer is "Option 2".

Q28. Answer: (c) 372

The logic followed here is:

Logic: (1st number × 2) + 4 = 2nd number.

Now,

For, 13 : 156

=> (13 × 12) = 156.

For, 22 : 264

=> (22 × 12) = 264.

Similarly, for 31 : ?
=> (31 × 12) = 372.
Hence, the correct answer is "Option 3".

Q29. Answer: (b) KMPU

The logic followed here is:
CEHM is related to YADI

And,
IKNS is related to EGJO

Similarly,
OQTY is related to

Hence, "Option 2" is the correct answer.

Q30. Answer: (d) 9

The logic followed here is: No specific pattern is followed here, random digits are assigned to each letter of the word.
'DARK' is coded as '3975'

Letters	D / A / R	K
Codes	3 / 7 / 5	9

And,
'READ' is coded as '5873'

Letters	D / A / R	D
Codes	3 / 7 / 5	8

As 'D', 'A', and 'R' are common, therefore it can be concluded that :
K is coded as → 9
So, the code for 'K' is '9'.
Hence, "Option 4" is the correct answer.

Q31. Answer: (a) 71

Given : 17 ÷ 4 - 28 + 125 × 5 =?
According to the question, after replacing the signs :
'+' and '-' are interchanged
'×' and '÷' are interchanged
So,
17 × 4 + 28 - 125 ÷ 5 =?
17 × 4 + 28 - 25 = ?
68 + 28 - 25 = ?
96 - 25 = ?
71 = ?
Hence, "71" is the correct answer.

Q32. Answer: (c) [figure]

According to the given figure:
The figure will appear when it is opened as follows:
Hence, "Option 3" is the correct answer.

Q33. Answer: (a) Limit : Boundless

The logic followed here is:
Logic: Opposites.

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Here,
Compress : Expand → Compress and Expand are opposites.
Similarly,
Limit : Boundless → Limit and Boundless are opposites.
Hence, the correct answer is "Option 1".

Q34. Answer: (d) 9

The logic followed here is: No specific pattern is followed here, random digits are assigned to each letter of the word.
'TWIN' is coded as 2359

Letters	W / I / N	T
Codes	2 / 3 / 5	9

And,
‘WING’ is coded as 5302

Letters	W / I / N	G
Codes	2 / 3 / 5	0

Therefore it can be concluded that :
T is coded as → 9
So, the code for 'T' is '9'.
Hence, "Option 4" is the correct answer.

Q35. Answer: (d) [figure]

The image embedded in the given figure is as shown below :
Therefore Here, the given figure is embedded in option Figure - 4.
Hence, the correct answer is "Option 4".

Q36. Answer: (d) [figure]

The logic followed here is :
1) For the left top and bottom number series → (5) is added to each number subsequently.
2) For the right corner number series → (10) is added to each number subsequently.
Thus, the final series is :
Hence, "Option 4" is the correct answer.

Q37. Answer: (c) [figure]

The correct mirror image of the given figure is:
Hence, the correct answer is "Option 3".

Q38. Answer: (b) HKM

The logic followed here is:
Option 1) JNP
Option 2) HKM
Option 3) RVX
Option 4) CGI
Thus, out of all the options 'HKM' is the odd one out.
Hence, "Option 2" is the correct answer.

Q39. Answer: (b) [figure]

The correct mirror image of the given figure is:
Hence, the correct answer is "Option 2".

Q40. Answer: (c) [figure]

The correct mirror image of the given figure is:
Hence, the correct answer is "Option 3".

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Q41. Answer: (d) 160

The logic followed here is:

Hence, "160" is the correct answer.

Q42. Answer: (a) More than 17

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

Here, as marked there are a total of 18 rectangles.

Hence, "Option 1" is the correct answer.

Q43. Answer: (d) PGLC

Given: JIG_KG_U_EGZM_GE

By checking options :

Option 1) NGMC → JIGNKGGUMEGZMCGE → (It doesn't Follow the pattern)

Option 2) NGCL → JIGNKGGUCEGZMLGE → (It doesn't Follow the pattern)

Option 3) PGMC → JIGPKGGUMEGZMCGE → (It doesn't Follow the pattern)

Option 4) PGLC → JIGPKGGULEGZMCGE → (It follows the pattern of:

So, out of all the options "Option - (4)" follows the pattern.

Hence, "Option 4" is the correct answer.

Q44. Answer: (b) Sunday

Given: 18 January 2013 was Friday.

Now,

2013 to 2021 = 8 Years (6 Ordinary Years and 2 Leap Years).

And, In 8 Years = 2 Leap years and 6 Ordinary Years.

So, 2 Leap Years have 4 odd days,

And, 6 Ordinary Years have 6 odd days.

Total odd days = 4 + 6 = 10.

10 odd days → 10/7 = 1 week and 3 odd days.

then, 18 January 2021 will be Friday + 3 = Monday.

Now, the number of days between 18 January 2021 to 19 December 2021

= 13(January) + 28(February) + 31(March) + 30(April) + 31(May) + 30(June) + 31(July) + 31(August) + 30(September) + 31(October) + 30(November) + 19(December) = 335 days.

= 335 days → 335/7 = 47 weeks and 6 odd day.

So, 19 December 2021 will be Monday + 6 = Sunday.

Hence, the correct answer is "Option 2".

Q45. Answer: (d) abcabxzyabc

Given : a _ z b _ y c _ x _ a z _ b y c c _ a a _ b b _ c c x _ a z _ b y _ c x

By checking options :

Option 1) bacabzxyabc → a b z b a y c c x a a z b b y c c z a a x b b y c c x a a z b b y c c x → (It doesn't Follow the pattern)

Option 2) bacazbxyacb → a b z b a y c c x a a z z b y c c b a a x b b y c c x a a z c b y b c x → (It doesn't Follow the pattern)

Option 3) acbacxzyabc → a a z b c y c b x a a z c b y c c x a a z b b y c c x a a z b b y c c x → (It doesn't Follow the pattern)

Option 4) abcabxzyabc → a a z b b y c c x a a z b b y c c x a a z b b y c c x a a z b b y c c x → (It follows the pattern of: aazbbyccx - aazbbyccx - aazbbyccx - aazbbyccx)

So, out of all the options "Option - (4)" follows the pattern.

Hence, "Option 4" is the correct answer.

Q46. Answer: (c) 46

Given Equation: 5 B 5 C 216 A 9 D 3 = ?

BODMAS Rule:

Decoding the given information:

Alphabet	A	B	C	D
Meaning	÷	×	•	•

Now replacing the sign from left to right using BODMAS Rule, we get:

=> 5 × 5 + 216 ÷ 9 - 3 = ?

=> 5 × 5 + 24 - 3 = ?

=> 25 + 24 - 3 = ?

=> 49 - 3 = 46.

Hence, the correct option is "Option 3".

Q47. Answer: (d) Neither conclusion (I) nor (II) follows.

The least possible Venn diagram for the given statements is as shown below :

Conclusions:

I. No tables are earth → Does not follow (As all ground is wind, some tables are ground and all wind is earth. As no direct relation is given between tables and earth therefore no table are earth is false.)

II. All earth is ground → Does not follow (As all ground is wind and all wind is earth. So, it is possible but not definite.)

Therefore Here, Neither conclusion (I) nor (II) follows.

Hence, the correct answer is "Neither conclusion (I) nor (II) follows"

Q48. Answer: (d) Father’s sister

Decoding the Symbols:

Symbol	**•**	**–**	**×**	**÷**
Meaning	Sister	Brother	father	Daughter

Given: J ÷ K + L × O – P

J ÷ K → J is the daughter of K.

K + L → K is the sister of L.

L × O → L is the father of O.

O – P → O is the brother of P.

Here, K is the parental aunt or father's sister of P.

Hence, the correct answer is "Option 4".

Q49. Answer: (d) 204

Given : 24 ÷ 9 + 182 × 13 - 2 = ?

According to the question, after replacing the signs :

‘+’ and ‘-’ are interchanged

‘×’ and ‘÷’ are interchanged

So,

24 × 9 - 182 ÷ 13 + 2 = ?

24 × 9 - 14 + 2 = ?

216 + 2 - 14 = ?

218 - 14 = ?

204 = ?

Hence, "204" is the correct answer.

Q50. Answer: (a) 59

The logic followed here is:

Hence, "59" is the correct answer.

Q51. Answer: (a) Rs. 6,200

Given:

Cost Price (CP) = Rs. 4,400

Profit Percentage = 24%

Discount Percentage = 12%

Formula used:

Selling Price (SP) = CP × (1 + Profit Percentage/100)

Marked Price (MP) = SP / (1 - Discount Percentage/100)

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Calculation:

SP = 4400 × (1 + 24/100)

=> SP = 4400 × 1.24

=> SP = 5456

MP = 5456 / (1 - 12/100)

=> MP = 5456 / 0.88

=> MP = 6200

Therefore The correct answer is option (1).

Q52. Answer: (c) 15 : 22

Given:

Incomes of companies A and B in 2006 are in the ratio 3:4

Profit percentage for Company A in 2006 = 65%

Profit percentage for Company B in 2006 = 50%

Formula used:

Profit % = (Income - Expenditure) / Expenditure × 100

Calculations:

Let the incomes of Company A and Company B be 3x and 4x respectively.

Step 1: For Company A

65 = (3x - Expenditure of A) / Expenditure of A × 100

=> 0.65 × Expenditure of A = 3x - Expenditure of A

=> 1.65 × Expenditure of A = 3x

=> Expenditure of A = 3x / 1.65

Step 2: For Company B

50 = (4x - Expenditure of B) / Expenditure of B × 100

=> 0.50 × Expenditure of B = 4x - Expenditure of B

=> 1.50 × Expenditure of B = 4x

=> Expenditure of B = 4x / 1.50

Step 3: Ratio of Expenditures

Ratio = (3x / 1.65) : (4x / 1.50)

=> Ratio = (3 × 1.50) : (4 × 1.65)

=> Ratio = 4.5 : 6.6

=> Ratio = 15 : 22

Therefore The ratio of expenditures of Company A and Company B in 2006 is 15:22.

Q53. Answer: (d) 711/5%

Given:

In two successive years, 75 and 50 employees of a company appeared at the departmental examination. Respectively, 84% and 52% of them passed.

Formula used:

Average rate of pass percentage = (Total passed candidates)/(Total candidates) × 100

Calculation:

Total passed candidates in first year = 75 × 0.84 = 63

Total passed candidates in second year = 50 × 0.52 = 26

Total passed candidates = 63 + 26 = 89

Total candidates = 75 + 50 = 125

Average rate of pass percentage = 89/125 × 100

=> Average rate of pass percentage = 711/5% %

Therefore The correct answer is option (4).

Q54. Answer: (c) 4851 cm3

Given:

The surface area of a spherical ball is 1386 cm^2.

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Formula used:

Surface Area of Sphere, $S = 4\pi r^2$

Volume of Sphere, $V = (4/3)\pi r^3$

Calculation:

$1386 = 4\pi r^2$

$\Rightarrow r^2 = 1386 / (4\pi)$

$\Rightarrow r^2 = 1386 / (4 \times 3.14)$

$\Rightarrow r^2 \approx 110.49$

$\Rightarrow r \approx \sqrt{110.49}$

$\Rightarrow r \approx 10.51$ cm

Now, Volume, $V = (4/3)\pi r^3$

$\Rightarrow V = (4/3) \times 3.14 \times (10.51)^3$

$\Rightarrow V \approx (4/3) \times 3.14 \times 1159.39$

$\Rightarrow V \approx 4851$ cm³

Therefore The correct answer is option 3.

Q55. Answer: (b) 78.4 lakhs

Given:

Total population of State B = 7 crores = 700 lakhs

Percentage literate in State B = 72%

Male:Female ratio of illiterates = 3:2

Formula used:

Illiterate population = (100% - literate%) × total population

Calculation:

Illiterate population = (100 - 72)% × 700 lakhs

$\Rightarrow$ Illiterate population = 28% × 700 lakhs = 196 lakhs

Female illiterate population = 2/(3+2) × 196 lakhs

$\Rightarrow$ Female illiterate population = 2/5 × 196 = 78.4 lakhs

Therefore The correct answer is option (2).

Q56. Answer: (c) 4

Given:

Radius of the first circle = 3 units

Radius of the second circle = r units

Distance between centers = 6 units

Length of the direct common tangent = $\sqrt{35}$ units

Formula used:

Length of direct common tangent = $\sqrt{(d^2 - (r1 - r2)^2)}$

Calculation:

$\sqrt{35} = \sqrt{(6^2 - (3 - r)^2)}$

$\Rightarrow 35 = 36 - (3 - r)^2$

$\Rightarrow (3 - r)^2 = 36 - 35 = 1$

$\Rightarrow 3 - r = \pm 1$

$\Rightarrow r = 3 + 1 = 4$ units OR

$\Rightarrow r = 3 - 1 = 2$ units

So, the circle radius can be 2 units or 4 units. Since 2 units is not in the option, the correct answer will be 4 units.

Therefore The correct answer is option (3).

Q57. Answer: (d) 1.4

Given:

Numbers: 0.72 and 2.85

Formula used:

Mean Proportion = $\sqrt{(a \times b)}$

Calculation:
Mean Proportion = √(0.72 × 2.85)
=> Mean Proportion = √(2.052)
=> Mean Proportion ≈ 1.4 (rounded to one decimal place)
Therefore The correct answer is option (4).

Q58. Answer: (c) 16 cm

The solution is in Hindi. Read it online.

Q59. Answer: (d) 32%

Shortcut Trick
Effective percentage change = x + y + xy/100
Here, x = 10 and y = 20
Overall percentage increased in the price = 10 + 20 + (200/100)
=> 32%
Therefore The overall percentage increased in the price is 32%.
Given:
A number increased by 10% and 20%
Calculation:
Let the number be x.
According to the question,
=> x × (110/100) × (120/100)
=> x × (11/10) × (6/5)
=> 66x/50
Overall percentage increase in the price = [{(66x/50) - x}/x] × 100
=> (16x/50x) × 100
=> 32%
Therefore The overall percentage increased in the price is 32%.

Q60. Answer: (d) 2 years

Given:
Principal (P) = Rs. 4,250
Simple Interest (SI) = Rs. 510
Rate (R) = 6% per annum
Formula used:
SI = (P × R × T) / 100
Where, T = Time in years
Calculations:
510 = (4250 × 6 × T) / 100
=> 510 = 255 × T
=> T = 510 / 255
=> T = 2 years
Therefore The correct answer is option (4).

Q61. Answer: (a) 13%

Given:
Initial Income (I1) = Rs. 42,800
Final Income (I2) = Rs. 37,236
Formula used:
Percentage Decrease = (I1 - I2)/I1 × 100
Calculation:
=> Percentage Decrease = (42800 - 37236)/42800 × 100
=> Percentage Decrease = 5564/42800 × 100

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=> Percentage Decrease = 13%

Therefore The correct answer is 13%.

Q62. Answer: (a) Rs. 16,800

Given:

A shopkeeper sold an article at a 26% profit. On selling it for Rs. 2,250 more, he would get a profit of 41%. If this article is sold at 12% profit, then the selling price would be:

Formula used:

Let the cost price (CP) be Rs. x.

Selling Price (SP) at 26% profit = x + 0.26x = 1.26x

Selling Price (SP) at 41% profit = x + 0.41x = 1.41x

Calculation:

Given: 1.41x - 1.26x = Rs. 2,250

=> 0.15x = Rs. 2,250

=> x = Rs. 2,250 / 0.15

=> x = Rs. 15,000

Selling Price at 12% profit = x + 0.12x = 1.12x

=> Selling Price = 1.12 × Rs. 15,000

=> Selling Price = Rs. 16,800

Therefore The correct answer is option 1.

Q63. Answer: (c) 2 - √3

Given:

Simplify: (sin 60°-cos 60°)/(sin 60°+cos 60°)

Formula used:

sin 60° = √3/2, cos 60° = 1/2

Calculation:

=> (√3/2-1/2)/(√3/2+1/2)

=> (√3-1)/(√3+1)

Multiply numerator and denominator by (√3 - 1):

=> ((√3-1)²)/((√3)² - (1)²)

=> (3 - 2√3 + 1)/(3 - 1)

=> (4 - 2√3)/2

=> 2 - √3

Therefore The simplified value is 2 - √3.

Q64. Answer: (b) 2 : 3

Given:

Wheat imports (in thousand tonnes) for five years: 36 (2018), 32 (2019), 34 (2020), 37 (2021), 35 (2022)

Formula used:

Average imports = Sum of imports / Number of years

Calculation:

=> Average imports = (36 + 32 + 34 + 37 + 35) / 5 = 174 / 5 = 34.8 thousand tonnes

Below-average imports: 2019 (32), 2020 (34)

Above-average imports: 2018 (36), 2021 (37), 2022 (35)

Ratio of below-average to above-average imports = 2:3

Therefore The correct answer is option (2).

Q65. Answer: (d) 55

Shortcut Trick

Ratio of students = 50 : 150 = 1 : 3.

Assume a base average of 40.

Net deviation from 40 = 3 × (60 − 40) = 3 × 20 = 60.

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Distribute deviation among total ratio parts (1 + 3 = 4): 60 ÷ 4 = 15.
Weighted Average = 40 + 15 = 55.
Therefore The correct answer is 55.
Alternate Method
Given:
Number of people in Group 1 (n1) = 50, Average (A1) = 40
Number of people in Group 2 (n2) = 150, Average (A2) = 60
Formula:
Weighted Average = (n1A1 + n2A2) ÷ (n1 + n2)
Calculations:
=> Total marks of Group 1 = 50 × 40 = 2000
=> Total marks of Group 2 = 150 × 60 = 9000
=> Total combined marks = 2000 + 9000 = 11000
=> Total number of people = 50 + 150 = 200
=> Weighted Average = 11000 ÷ 200
=> Weighted Average = 55
Therefore The correct answer is 55.
Additional Information
Weighted Average Formula
For multiple groups, the formula is $\Sigma n_i A_i \div \Sigma n_i$, where n is the number of items and A is the average of each group.
Alligation Rule
Ratio of quantities = (Higher Average − Weighted Average) : (Weighted Average − Lower Average). This is used to find the ratio of quantities when the average of each and the mixture is known.
Deviation Method
Weighted Average = Assumed Average + (Net Deviation ÷ Total Quantity). This simplifies calculations by using smaller numbers.

Q66. Answer: (c) 60°

Given:
angle QOB = 40º
angle AOP = 80º
Formula used:
The sum of all angle on a straight line is 180º.
Calculation:
angle QOB = 40º
angle AOP = 80º
Since PQ is the diameter,
Let angle AOB = xº
angle AOB + angle AOP + angle QOB = 180º (sum of angles on a straight line)
=> x + 80º + 40º = 180º
=> x + 120º = 180º
=> x = 180º - 120º
=> x = 60º
Therefore The correct answer is option (3).

Q67. Answer: (c) 53/13

Here is the step-by-step solution for the given problem:
Given:
1⅓ ÷ [2⅙ ÷ {14⅓ - (2⅓ + 3½)}]
Formula used:
Division of fractions: a ÷ b = a × 1/b
Calculations:
Step 1: Simplify the inner bracket:

2⅓ + 3½ = 7/3 + 7/2
=> (14 + 21)/6 = 35/6
Step 2: Subtract from 14⅓:
14⅓ - 35/6 = 43/3 - 35/6
=> (86 - 35)/6 = 51/6
Step 3: Now divide 2⅙ by 51/6:
2⅙ = 13/6
=> 13/6 ÷ 51/6 = 13/6 × 6/51
=> 13/51
Step 4: Finally, divide 1⅓ by 13/51:
1⅓ = 4/3
=> 4/3 ÷ 13/51 = 4/3 × 51/13
=> 68/13 = 53/13
Therefore The correct answer is option (3).

Q68. Answer: (a) 4000

Given:
Production of refrigerators (in thousand) by five different companies A, B, C, D, E in 2005-2006 and 2006-2007
2005-2006: A = 250, B = 340, C = 370, D = 490, E = 430
2006-2007: A = 390, B = 200, C = 450, D = 240, E = 360
Formula used:
Average = Sum of values / Number of values
Required difference = 60% of 2005-2006 average - 70% of 2006-2007 average
Calculation:
Average of 2005-2006 = (250 + 340 + 370 + 490 + 430)/5
=> = 1880/5 = 376
60% of 376 = 0.6 * 376
=> = 225.6
Average of 2006-2007 = (390 + 200 + 450 + 240 + 360)/5
=> = 1640/5 = 328
70% of 328 = 0.7 * 328
=> = 229.6
Difference = 225.6 - 229.6
=> = 4 i.e. 4 thousand
Therefore The correct answer is 4000.

Q69. Answer: (c) 24 days

Given:
Teena does half of a task in 6 days.
With Shyam's help, she completes the remaining work in 4 days.
Formula used:
Work done by Teena in 6 days = 1/2 of the task.
Work done by Teena in 1 day = 1/12 of the task.
Let Shyam's 1 day work be 1/x of the task.
Combined work done by Teena and Shyam in 4 days = 1/2 of the task.
Calculation:
Teena's 1 day work = 1/12
Teena and Shyam's combined 1 day work = 1/4
=> 4(Teena's 1 day work + Shyam's 1 day work) = 1/2
=> 4(1/12 + 1/x) = 1/2
=> 1/12 + 1/x = 1/8
=> 1/x = 1/8 - 1/12

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=> 1/x = (3 - 2)/24
=> 1/x = 1/24
=> x = 24
Therefore The correct answer is option 3.

Q70. Answer: (d) 26

Given:
640 ÷ 8 + 930 ÷ 15 - k + 32 × 5 = 1104 ÷ 16 × 148 ÷ 37
Formula used:
Basic arithmetic operations: Division, Multiplication, Addition, Subtraction
Calculation:
640 ÷ 8 + 930 ÷ 15 - k + 32 × 5 = 1104 ÷ 16 × 148 ÷ 37
=> 80 + 62 - k + 160 = 69 × 4
=> 302 - k = 276
=> k = 302 - 276
=> k = 26
Therefore The correct answer is option (4).

Q71. Answer: (a) 594 cm²

Given:
Length (l) = 19 cm
Breadth (b) = 9 cm
Height (h) = 4.5 cm
Formula used:
Whole Surface Area (WSA) of a cuboid = 2(lb + bh + hl)
Calculation:
WSA = 2(19 × 9 + 9 × 4.5 + 4.5 × 19)
=> WSA = 2(171 + 40.5 + 85.5)
=> WSA = 2(297)
=> WSA = 594 cm²
Therefore The correct answer is option 1.

Q72. Answer: (c) 40

Shortcut Trick
Sum of ages of father and son after 5 years = 50 + 5 + 5 = 60 years.
Given ratio of Father to Son after 5 years = 5 : 1.
Father's age after 5 years = (5 ÷ 6) × 60 = 50 years.
Father's age 5 years ago (which is 10 years before the 'after 5 years' stage) = 50 − 10 = 40 years.
Therefore The correct answer is 40 years.
Alternate Method
Given:
Sum of present ages of father and son = 50 years.
After 5 years, the father's age will be 5 times the son's age.
Calculations:
Let the present age of the father be x and the son be y.
=> x + y = 50 --- (Equation 1)
After 5 years, their ages will be (x + 5) and (y + 5).
According to the given condition:
=> x + 5 = 5 × (y + 5)
=> x + 5 = 5y + 25
=> x − 5y = 20 --- (Equation 2)
Subtracting Equation 2 from Equation 1:
=> (x + y) − (x − 5y) = 50 − 20

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=> 6y = 30

=> y = 5

Substitute y = 5 in Equation 1:

=> x + 5 = 50

=> x = 45

The present age of the father is 45 years.

Father's age 5 years ago = 45 − 5 = 40 years.

Therefore The correct answer is 40 years.

Additional Information

Sum of Ages in Future/Past

If the sum of present ages of n people is S, then the sum of their ages after t years will be S + n × t, and t years ago it was S − n × t.

Age Difference

The difference in ages between any two people remains constant throughout their entire lives regardless of the time period.

Base Variables Setup

Always set the present age as the base variables (like x and y). This minimizes calculation errors when adjusting conditions for past or future ages.

Q73. Answer: (d) 2 km/h

Shortcut Trick

Speed of stream = Still water speed − Upstream speed

Speed of stream = 3 km/h − 1 km/h

Speed of stream = 2 km/h

Therefore The correct answer is 2 km/h.

Alternate Method

Given:

Speed of boat in still water (u) = 3 km/h

Speed of boat upstream (v_u) = 1 km/h

Formula used:

Upstream speed (v_u) = Still water speed (u) − Stream speed (v)

Calculations:

=> Upstream speed = Still water speed − Stream speed

=> 1 km/h = 3 km/h − Stream speed

=> Stream speed = 3 km/h − 1 km/h

=> Stream speed = 2 km/h

Therefore The correct answer is 2 km/h.

Additional Information

Downstream Speed

It is the net speed of a boat moving with the flow of the stream. Downstream Speed = Speed in still water + Speed of stream.

Speed in Still Water

The actual speed of the boat without any stream influence. Still Water Speed = (Downstream speed + Upstream speed) ÷ 2.

Speed of the Stream

The speed at which the water is flowing. Stream Speed = (Downstream speed − Upstream speed) ÷ 2.

Q74. Answer: (a) 15 cm

Given:

ΔABC and ΔDEF are similar triangles

Area of ΔABC = 81 cm²

Area of ΔDEF = 144 cm²

EF = 20 cm

Formula used:

For similar triangles, the ratio of their areas is equal to the square of the ratio of their corresponding sides.

(Area of ΔABC)/(Area of ΔDEF) = (BC/EF)²

Calculation:

$81/144 = (BC/20)^2$

$\Rightarrow 9/12 = (BC/20)$

$\Rightarrow 3/4 = BC/20$

$\Rightarrow BC = 3/4 \times 20$

$\Rightarrow BC = 15$

Therefore The correct answer is option (1).

Q75. Answer: (b) $4\sqrt{15}$ cm

Concept used:

If two circles touch each other externally, then the length of their common tangent = $2\sqrt{r1r2}$, where r1 and r2 are radius

Calculation:

Radius of the first circle (r1) = 12

Radius of the second circle (r2) = 5

Then, according to the question,

the length of their common tangent BC

$= 2\sqrt{(12 \times 5)}$

$= 2\sqrt{60}$

$= 2 \times \sqrt{(4 \times 15)}$

$= 4\sqrt{15}$ cm

Therefore The correct answer is $4\sqrt{15}$ cm.

Q76. Answer: (d) love

The correct answer is love

Key Points

• In badminton, the term "love" is used to denote a score of zero points.

• The scoring system in badminton is similar to that used in tennis, where "love" means zero.

• For example, if the score is 10-0, it is announced as "10-love".

• The term "love" is believed to have originated from the French word "l'oeuf," meaning "egg," which symbolizes zero.

• Understanding these terminologies is essential for following and enjoying the game of badminton.

Additional Information

• Badminton is a racquet sport played using racquets to hit a shuttlecock across a net.

• It is played as a singles or doubles game, with players positioned on opposite halves of a rectangular court.

• The game originated in ancient civilizations in Europe and Asia; the modern form of badminton developed in British India.

• Badminton is governed by the Badminton World Federation (BWF), which organizes various international competitions.

• Scoring in badminton matches can be played to 21 points, with a requirement to win by at least 2 points if the score reaches 20-all.

Q77. Answer: (b) Section 375

The correct answer is Section 375

Key Points

• Section 375 of the Indian Penal Code defines the offense of rape.

• This section outlines the different circumstances under which a sexual act is considered rape, including lack of consent, consent obtained through force or fraud, and situations involving minors.

• It specifies the punishment for rape, which can vary depending on the severity of the crime.

• The section has been amended several times to address changing societal norms and to strengthen the legal framework for protecting victims of sexual violence.

• Section 375 is a crucial part of India's legal system aimed at safeguarding the dignity and bodily autonomy of individuals.

Additional Information

• The Indian Penal Code (IPC) was enacted in 1860 and is the principal criminal code of India.

• It covers all substantive aspects of criminal law and has been amended numerous times to keep pace with the changing needs of society.

• Other important sections related to sexual offenses include Section 376 (punishment for rape) and Section 354 (assault or criminal force to woman with intent to outrage her modesty).

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• The Criminal Law (Amendment) Act, 2013, also known as the Nirbhaya Act, brought significant changes to the IPC, including stricter punishments for sexual offenses.

• The IPC is complemented by other laws such as the Protection of Children from Sexual Offenses (POCSO) Act, which specifically addresses sexual crimes against minors.

Q78. Answer: (d) The excess of expenditure over revenue, including interest payments on debt

The correct answer is The excess of expenditure over revenue, including interest payments on debt

Key Points

• The excess of expenditure over revenue, including interest payments on debt is known as a revenue deficit in the government budget.

• A revenue deficit indicates that the government's revenue receipts are not sufficient to meet its revenue expenditure.

• This type of deficit is a key indicator of the financial health of the government and reflects its ability to manage its finances.

• A persistent revenue deficit can lead to higher borrowings and increased debt burden for the government.

• Reducing the revenue deficit is crucial for maintaining fiscal discipline and ensuring long-term economic stability.

Additional Information

• Revenue receipts include tax revenues (like income tax, corporate tax, GST) and non-tax revenues (like interest receipts, dividends, and profits from public sector enterprises).

• Revenue expenditure includes expenses incurred for the normal functioning of government departments and various services, interest payments on debt, and subsidies.

• Unlike capital expenditure, revenue expenditure does not result in the creation of assets or reduction in liabilities.

• Efforts to reduce revenue deficit may include enhancing revenue receipts through better tax compliance and administration, and rationalizing expenditure.

• The government may also implement structural reforms to improve the efficiency and productivity of public sector enterprises.

Q79. Answer: (a) Article 11

The correct answer is Article 11

Key Points

• Article 11 of the Constitution of India vests plenary powers in Parliament to legislate on the subject of citizenship.

• This article gives Parliament the authority to make any provision with respect to the acquisition and termination of citizenship and all other matters relating to citizenship.

• It is part of Part II of the Constitution, which deals with the citizenship of individuals at the commencement of the Constitution.

• Article 11 empowers the Parliament to regulate the right of citizenship by law.

• This provision ensures that the Parliament has the flexibility to address all issues related to citizenship as and when required.

Additional Information

• The Constitution of India was adopted by the Constituent Assembly on 26th November 1949 and came into effect on 26th January 1950.

• It lays down the framework defining fundamental political principles, establishes the structure, procedures, powers, and duties of government institutions, and sets out fundamental rights, directive principles, and the duties of citizens.

• The Constitution of India is the longest written constitution of any country in the world.

• It declares India a sovereign, socialist, secular, and democratic republic, assuring its citizens justice, equality, and liberty, and endeavors to promote fraternity.

• Part II of the Constitution (Articles 5 to 11) deals with the citizenship of individuals at the commencement of the Constitution.

• Article 11 gives the Parliament the power to regulate the right of citizenship by law, which allows for necessary amendments and changes to adapt to evolving circumstances.

Q80. Answer: (d) 1-c, 2-a, 3-b, 4-d

The correct answer is 1-c, 2-a, 3-b, 4-d

Key Points

• Option 4 correctly matches the countries with their official languages:

• Sri Lanka - Tamil

• China - Mandarin

• Myanmar - Burmese

• Bhutan - Dzongkha

Additional Information

• The official languages of these countries are integral to their cultural and administrative identity.

• Sri Lanka has two official languages: Sinhala and Tamil, but Tamil is the correct match in this context.
• Mandarin is the official language of China and is the most spoken language in the world.
• Burmese is the official language of Myanmar, also known as Burma.
• Dzongkha is the official language of Bhutan and is used in government and education.

Q81. Answer: (b) Ctrl + M

The correct answer is Ctrl + M

Key Points

• The keyboard shortcut for inserting a new slide in MS-PowerPoint is Ctrl + M.
• Using keyboard shortcuts can enhance productivity and efficiency while working on presentations.
• MS-PowerPoint provides various keyboard shortcuts for different functions, which can be customized if needed.
• Remembering common shortcuts like Ctrl + M for new slides can save time during the creation process.

Additional Information

• Ctrl + X is used for cutting the selected content.
• Ctrl + S is used for saving the current presentation.
• Ctrl + N is used for creating a new presentation.
• Keyboard shortcuts are designed to streamline tasks and minimize the use of a mouse for frequent actions.
• Learning and utilizing shortcuts can significantly improve workflow efficiency in MS-PowerPoint and other software applications.

Q82. Answer: (b) 2021

The correct answer is 2021

Key Points

• The Juvenile Justice (Care and Protection of Children) Act, 2015 was amended in the year 2021.
• The amendment aimed to strengthen the provisions for the protection and care of children.
• It introduced measures to streamline the adoption process and ensure the welfare of children in need of care and protection.
• The amendment also provided for more robust mechanisms to deal with juvenile offenders and enhanced the role of Child Welfare Committees and Juvenile Justice Boards.

Additional Information

• The Juvenile Justice (Care and Protection of Children) Act was originally enacted in 2000 and was later replaced by the 2015 Act to address the changing needs and challenges in the juvenile justice system.
• The 2015 Act introduced significant changes, including the provision to try juveniles in the age group of 16-18 years as adults for heinous offenses.
• The amendment in 2021 further refined the legal framework to ensure the effective implementation of the Act and better protection for children.
• The Act is a crucial piece of legislation that aligns with India's commitment to child rights and welfare as outlined in the United Nations Convention on the Rights of the Child (UNCRC).

Q83. Answer: (c) Mailings

The correct answer is Mailings

Key Points

• The Mail Merge Wizard in Microsoft Word is located under the Mailings tab.
• Mail Merge is a useful tool that allows users to create multiple documents at once, such as letters, labels, envelopes, or emails.
• This feature is particularly beneficial for producing mass communications that are personalized for each recipient.
• To start the Mail Merge, you can navigate to the Mailings tab and then click on the "Start Mail Merge" button.
• The Mail Merge Wizard guides you step-by-step through the process of selecting the document type, choosing the recipients, and inserting merge fields.

Additional Information

• Microsoft Word is a word processing software developed by Microsoft, which is part of the Microsoft Office suite.
• It is widely used for creating, formatting, and editing documents.
• Other tabs in Microsoft Word include Home, Insert, Design, Layout, References, Review, and View, each providing different functionalities.
• The Mail Merge feature can also be used in conjunction with Excel, where recipient data can be stored in an Excel spreadsheet and then linked to the Word document.
• Understanding the use of different tabs and features in Microsoft Word can significantly enhance productivity and document

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management.

Q84. Answer: (b) Annie Besant

The correct answer is Annie Besant

Key Points

• Annie Besant was a prominent British social reformer, theosophist, and supporter of Indian self-rule.

• She founded the Indian Home Rule League in 1916 to promote self-governance and greater autonomy for India within the British Empire.

• Annie Besant was also known for her work in education and women's rights, and she played a significant role in the Indian independence movement.

• Her efforts helped to galvanize support for the cause of Indian self-rule and set the stage for future leaders like Mahatma Gandhi.

Additional Information

• Annie Besant was born on 1st October 1847 in London and became involved in various social and political causes throughout her life.

• She became the president of the Theosophical Society and moved to India, where she became deeply involved in Indian politics.

• The Indian Home Rule League aimed to achieve self-government for India through constitutional means and fostered a sense of national unity.

• In recognition of her contributions, she was elected as the president of the Indian National Congress in 1917.

• Her legacy continues to be remembered in India for her contributions to social reform, education, and the independence movement.

Q85. Answer: (d) Khubakeshei

The correct answer is Khubakeshei

Key Points

• Khubakeshei is not a folk music form from Tamil Nadu.

• Villu Pattu is a popular folk music form in Tamil Nadu, known for its storytelling style using a bow-shaped musical instrument.

• Ammanaivari and Nattupura are also traditional folk music forms from Tamil Nadu, deeply rooted in the cultural heritage of the region.

• Folk music in Tamil Nadu often reflects the traditions, stories, and daily life of the people, and is performed during festivals and important ceremonies.

Additional Information

• Tamil Nadu has a rich and diverse cultural heritage, with various forms of music, dance, and art.

• The state is known for its classical music, Carnatic music, which is one of the oldest forms of music in India.

• Folk music in Tamil Nadu is often accompanied by traditional instruments such as the thavil, nadaswaram, and urumi.

• Many folk music forms in Tamil Nadu are performed during temple festivals, weddings, and other community gatherings.

Q86. Answer: (b) Tatipaka Refinery – Telangana

The correct answer is Tatipaka Refinery – Telangana

Key Points

• Numaligarh Refinery is correctly located in Assam.

• Tatipaka Refinery is actually located in Andhra Pradesh, not Telangana.

• Bina Refinery is correctly located in Madhya Pradesh.

• Koyali Refinery is correctly located in Gujarat.

Additional Information

• Refineries play a crucial role in the production of petroleum products and contribute significantly to the economy.

• India has several refineries spread across different states to meet the energy demands of the country.

• The location of a refinery is often strategic, based on factors such as proximity to crude oil sources, transportation facilities, and market demand.

Q87. Answer: (d) Albinism

The correct answer is Albinism

Key Points

• Albinism is a rare group of genetic disorders caused by mutations of certain genes affecting the color (pigmentation) of the skin, hair, and eyes.

• People with albinism are at risk of skin and vision problems due to the lack of melanin, the pigment responsible for coloration.

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• Albinism can occur in all racial and ethnic groups.
• There is no cure for albinism, but individuals can manage symptoms with proper skin care and eye protection.
• Genetic counseling is recommended for families affected by albinism to understand the inheritance patterns and risks.

Additional Information

• Oculocutaneous albinism (OCA) is the most common form, affecting the skin, hair, and eyes.
• Ocular albinism primarily affects the eyes, with minimal or no impact on skin and hair color.
• Individuals with albinism should avoid excessive sun exposure and use sunscreen to protect their skin.
• Regular eye check-ups and visual aids can help manage vision issues associated with albinism.
• Public awareness and education are crucial to reduce the stigma and discrimination faced by individuals with albinism.

Q88. Answer: (c) Pandit Thakur Prasad

The correct answer is Pandit Thakur Prasad

Key Points

• Pandit Thakur Prasad was instrumental in developing the Lucknow Gharana during the time of Wajid Ali Shah.
• The Lucknow Gharana is one of the prominent schools of Kathak dance, known for its intricate footwork, graceful movements, and expressive gestures.
• It emphasizes storytelling through dance and has contributed significantly to the classical dance heritage of India.
• This Gharana has produced many renowned artists who have carried forward its rich traditions.

Additional Information

• Wajid Ali Shah, the last Nawab of Awadh, was a patron of arts and played a key role in the cultural development of Lucknow, including the promotion of Kathak dance.
• The Lucknow Gharana is distinct from other Kathak Gharanas like the Jaipur and Banaras Gharanas, each having its own unique style and repertoire.
• Besides dance, the Lucknow Gharana has also influenced music, particularly the thumri style of singing.
• Efforts have been made to preserve and promote the traditions of the Lucknow Gharana through institutions and cultural festivals.

Q89. Answer: (a) HYVs led to decrease in the cropping intensity.

The correct answer is HYVs led to decrease in the cropping intensity

Key Points

• Option 1 is incorrect as High Yielding Varieties (HYVs) led to an increase, not a decrease, in cropping intensity due to their shorter maturity period and higher productivity.
• Option 2 is correct because HYVs indeed had a shorter period of maturity, allowing for multiple cropping cycles in a year.
• Option 3 is correct as HYVs made green revolution technology a land-saving technology by increasing yield per hectare.
• Option 4 is correct because the usage of HYVs was complemented with the attraction of more investment in farm machines, irrigation, and other inputs.

Additional Information

• The introduction of HYVs was a major component of the Green Revolution in India during the 1960s and 70s.
• HYVs required higher inputs of fertilizers, pesticides, and water, which led to an increase in agricultural productivity and self-sufficiency in food grains.
• The Green Revolution had significant socio-economic impacts, including changes in agricultural practices, rural incomes, and labor dynamics.
• Despite the benefits, the Green Revolution also brought about challenges such as environmental degradation, inequity among farmers, and over-reliance on chemical inputs.

Q90. Answer: (c) Sukarno

The correct answer is Sukarno

Key Points

• Sukarno was the chief guest at the first Republic Day celebration of India in 1950.
• Sukarno was the first President of Indonesia and a prominent leader in the Indonesian struggle for independence from the Dutch colonial rule.
• The invitation of Sukarno as the chief guest underscored the close relations between India and Indonesia, both of which were newly independent nations at the time.
• The first Republic Day celebration marked the adoption of the Constitution of India and the transition of India from a British Dominion to a republic.

Additional Information

• The Constitution of India was adopted by the Constituent Assembly on 26th November 1949 and came into effect on 26th January 1950.

• It lays down the framework defining fundamental political principles, establishes the structure, procedures, powers, and duties of government institutions, and sets out fundamental rights, directive principles, and the duties of citizens.

• The Constitution of India is the longest written constitution of any country in the world.

• It declares India a sovereign, socialist, secular, and democratic republic, assuring its citizens justice, equality, and liberty, and endeavors to promote fraternity.

• The Republic Day is celebrated every year on 26th January to honor the date on which the Constitution of India came into effect.

Q91. Answer: (b) Bodhidharma

The correct answer is Bodhidharma

Key Points

• Bodhidharma was an Indian Buddhist monk who is traditionally credited with transmitting Chan Buddhism to China.

• He is also considered the founder of the Shaolin Monastery and is associated with the development of many ancient martial art forms in the 5th century.

• Bodhidharma's teachings and practice centered on meditation and the Lankavatara Sutra, which emphasizes the realization of Buddha-nature.

• His contributions have had a lasting impact on both Buddhist practice and martial arts in East Asia.

Additional Information

• Bodhiruchi was another Indian monk who translated numerous Buddhist texts into Chinese but is not associated with martial arts.

• Paramartha was an Indian Buddhist missionary who translated texts and propagated Buddhism in China.

• Atisa was a Buddhist teacher from the Pala Empire in India who helped establish the Sarma schools of Tibetan Buddhism.

• The Shaolin Monastery, linked to Bodhidharma, is renowned for its association with Chinese martial arts and Chan (Zen) Buddhism.

• Legends suggest that Bodhidharma also developed exercises that later evolved into Shaolin Kung Fu, emphasizing physical fitness and self-defense.

Q92. Answer: (c) Venus

The correct answer is Venus

Key Points

• Venus is the planet that does NOT have rings.

• Saturn, Uranus, and Jupiter all have ring systems, though Saturn's rings are the most prominent and well-known.

• The ring systems of Uranus and Jupiter are fainter and less visible compared to Saturn's.

• Rings are composed of dust, rock, and ice particles orbiting around their respective planets.

Additional Information

• Venus is the second planet from the Sun and is similar in size and structure to Earth but has a thick, toxic atmosphere.

• It is the hottest planet in our solar system due to its dense atmosphere, which traps heat.

• Venus rotates very slowly on its axis and in the opposite direction to most planets in the solar system.

• It is often referred to as Earth's "sister planet" due to their similar size and proximity.

• Venus has no natural satellites (moons).

Q93. Answer: (c) Thumri

The correct answer is Thumri

Key Points

• Thumri is not an element of classical Carnatic music; it is a genre associated with Hindustani classical music.

• Kriti is a prominent composition form in Carnatic music, known for its structured and devotional content.

• Padam is a type of Carnatic music composition that is expressive and often deals with themes of love and devotion.

• Sthayi refers to the main section or refrain of a composition in Carnatic music.

Additional Information

• Carnatic music is a system of music commonly associated with the southern part of India.

• It is one of the two main sub-genres of Indian classical music that evolved from ancient Hindu traditions; the other sub-genre is Hindustani music, which is mainly found in the northern and central regions.

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• Carnatic music is known for its complex structure and emphasis on rhythm and melody.

• It includes various forms of compositions such as Varnam, Kriti, Padam, Javali, and Tillana.

• Learning and performing Carnatic music often involves rigorous training and a deep understanding of its theoretical aspects.

Q94. Answer: (c) Eastern Ganga Dynasty

The correct answer is Eastern Ganga Dynasty

Key Points

• The Sun Temple at Konark, also known as the Black Pagoda, was built by King Narasimhadeva I of the Eastern Ganga Dynasty in the 13th century.

• The temple is an architectural marvel and is designed in the shape of a colossal chariot with elaborately carved stone wheels, pillars, and walls.

• It is a UNESCO World Heritage Site and is considered one of the seven wonders of India.

• The temple is dedicated to the Hindu Sun God, Surya, and symbolizes the majestic stride of the Sun God.

Additional Information

• The Eastern Ganga Dynasty ruled the Kalinga region, which is present-day Odisha and northern Andhra Pradesh, from the 11th to the 15th centuries.

• The dynasty is renowned for its patronage of art and architecture, with the Sun Temple at Konark being their most famous architectural achievement.

• The temple was designed in such a way that the first rays of the sun would strike the main entrance.

• Despite being partially in ruins, the temple's intricate carvings and monumental scale continue to attract tourists and historians from around the world.

Q95. Answer: (d) For clarifying the mathematical relationship between electrical current, resistance and voltage

The correct answer is For clarifying the mathematical relationship between electrical current, resistance and voltage

Key Points

• Georg Simon Ohm was a German physicist and mathematician.

• He is best known for Ohm's Law, which states that the current through a conductor between two points is directly proportional to the voltage across the two points.

• This law is usually expressed with the formula V = IR, where V is the voltage, I is the current, and R is the resistance.

• Ohm's work was crucial in the field of electrical engineering and physics, providing a fundamental principle for understanding electrical circuits.

• His discovery in 1827 significantly contributed to the development of electrical theory and technology.

Additional Information

• Ohm's work initially received little recognition, but it later earned him significant honors, including the Copley Medal from the Royal Society of London.

• He also made contributions to the understanding of acoustics and the measurement of electrical resistance.

• Ohm's Law remains a fundamental concept in the study and application of electrical circuits today.

• His discoveries laid the groundwork for future innovations in electrical engineering and technology.

Q96. Answer: (a) Tehri Hydroelectric Power Plant

The correct answer is Tehri Hydroelectric Power Plant

Key Points

• Tehri Hydroelectric Power Plant is the tallest hydroelectric power plant in India as of 2022.

• Located in the state of Uttarakhand, the Tehri Dam is a multi-purpose rock and earth-fill embankment dam on the Bhagirathi River.

• The dam is 260.5 meters (855 ft) high, making it the highest dam in India and one of the tallest in the world.

• It plays a crucial role in water supply, irrigation, and hydroelectric power generation, with an installed capacity of 1,000 MW.

• The project is managed by the Tehri Hydro Development Corporation Limited (THDC).

Additional Information

• The Tehri Dam was constructed over a period of nearly 30 years, with the construction starting in 1978 and the dam becoming operational in 2006.

• The dam's reservoir, Tehri Lake, is a major tourist attraction and provides water for drinking and irrigation purposes to a large population.

• The Tehri Dam is also designed to withstand seismic activities, given its location in a seismically active region.

• It is a vital part of India's efforts to harness renewable energy and reduce dependence on fossil fuels.

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• The project faced several challenges, including environmental concerns and displacement of local communities, which were addressed through various mitigation measures.

Q97. Answer: (b) parry

The correct answer is parry

Key Points

• In fencing, a parry is a defensive action where the fencer blocks or deflects the opponent's blade.

• The primary purpose of a parry is to prevent the opponent from landing a hit.

• There are several types of parries, each corresponding to a different line of attack.

• Parries are fundamental skills in fencing, essential for both defense and setting up counter-attacks.

Additional Information

• Redoublement refers to a renewed attack after the initial attack has been parried.

• Reprise is an offensive action made immediately after a parry or a failed attack.

• Saber is one of the three weapons used in the sport of fencing, the others being foil and épée.

Q98. Answer: (a) demographic dividend

The correct answer is demographic dividend

Key Points

• The term demographic dividend refers to the economic growth potential that can result from shifts in a population's age structure.

• This shift occurs when the proportion of the working-age population (15-64 years) is larger compared to the non-working-age population (below 15 and above 64 years).

• During this period, the workforce grows more rapidly than the dependent population, providing a window of opportunity for economic growth.

• To harness the demographic dividend, it is crucial to invest in health, education, and employment opportunities.

Additional Information

• The concept of the demographic dividend is closely linked to the demographic transition theory, which describes the transition from high birth and death rates to lower birth and death rates as a country develops.

• Countries in different stages of this transition can experience varying economic impacts based on their demographic profiles.

• Effective policy measures and investments in human capital are essential to convert the demographic potential into actual economic benefits.

Q99. Answer: (d) Anunachal Pradesh

The correct answer is Arunachal Pradesh

Key Points

• The Vibrant Village programme was launched from Arunachal Pradesh on 10 April 2023.

• The programme aims to enhance the quality of life for people living in border villages, ensuring sustainable development and improving infrastructure.

• It focuses on areas such as education, health, agriculture, and connectivity to ensure comprehensive growth.

• Special emphasis is placed on empowering local communities and promoting tourism to generate livelihood opportunities.

Additional Information

• Arunachal Pradesh is known for its unique cultural heritage and scenic beauty, making it a crucial region for such developmental programmes.

• The Vibrant Village programme is a part of the government's broader strategy to bolster border security and enhance the living standards of border communities.

• By improving the infrastructure in these remote areas, the programme also aims to curb migration to urban areas, thereby maintaining the demographic stability of border regions.

Q100. Answer: (a) Quo-Warranto

The correct answer is Quo-Warranto

Key Points

• Quo-Warranto literally means 'what is your authority?'.

• This writ is issued to inquire into the legality of the claim of a person to a public office.

• The purpose of the writ is to prevent illegal usurpation of public office by an individual.

• It is a judicial order requiring the person to whom it is directed to show what authority they have for exercising some right, power, or franchise they claim to hold.

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Additional Information

• The writ of Prohibition is issued by a superior court to prohibit a lower court or tribunal from exceeding its jurisdiction.

• The writ of Mandamus is issued to command a public official, government department, corporation, or inferior court to perform a public or statutory duty.

• The writ of Habeas Corpus is issued to secure the release of a person who has been unlawfully detained.

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