SSC CHSL Previous Paper 33 (Held On: 21 Oct 2020 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2020 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Select the correct Indirect form of the given sentence.

"Let's sit out in the sun," Anya said.

(a) Anya suggested that we sit out in the sun.
(b) Anya had suggested that we sit out in the sun.
(c) Anya is suggesting that we sit out in the sun.
(d) Anya was suggesting that we sit out in the sun.

Q2. Select the most appropriate synonym of the given word:

ALTRUIST

(a) Philanthropist
(b) Impressionist
(c) Nutritionist
(d) Individualist

Q3. Select the most appropriate meaning of the given idiom:

Under the weather

(a) To feel wronged by friends
(b) To be in low spirits
(c) Feel strong and energetic
(d) To face bad weather conditions

Q4. Select the most appropriate word to fill in the blank:

As part of the _____ Classical Indian Music Festival, leading vocalists and instrumentalists are taking the stage this evening.

(a) onset
(b) foregone
(c) ongoing
(d) postponed

Directions

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Jonas Karlsson and Ruth Osborne are two chefs who (1)____ about promoting zero waste in cooking, whether it is (2)__ restaurants or at home. It means using every part of a food (3)__. So for example, you needn't peel carrots. You can (4)__ scrub off the surface lightly and cook them. You can also find ways (5)____ and recycle by-products like using coffee grounds to make biscuits.

Q5. Select the most appropriate option for blank No. 5.

(a) to redo
(b) to reused
(c) to reuse
(d) to redone

Q6. Select the most appropriate option for blank No. 4.

(a) seldom
(b) rarely
(c) never
(d) just

Q7. Select the most appropriate option for blank No. 3.

(a) producer
(b) productive
(c) production
(d) product

Q8. Select the most appropriate option for blank No. 2.

(a) on
(b) in
(c) upon
(d) into

Q9. Select the most appropriate option for blank No. 1.

(a) were passionate
(b) was passionate
(c) are passionately
(d) are passionate

Q10. Select the correct passive form of the given sentence.

The vet told me to put eye drops and ointment in my pet's eyes.

(a) I was being told by the vet to put eye drops and ointment in my pet's eyes.
(b) I was told by the vet to put eye drops and ointment in my pet's eyes.
(c) I had been told by the vet to put eye drops and ointment in my pet's eyes.
(d) I am being told by the vet to put eye drops and ointment in my pet's eyes.

Q11. In the sentence identify the segment which contains the grammatical error.

A 12-year-old archer was airlifted to Delhi when he met with an accident while practice for the Khelo India Games in Guwahati.

(a) while practice for the Khelo India Games
(b) when he met with an accident
(c) was airlifted to Delhi
(d) A 12 year old archer

Q12. Select the most appropriate antonym of the given word:

CONTEMPLATE

(a) Deify
(b) Conceive
(c) Ignore
(d) Meditate

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Q13. Given below are four jumbled sentences. Pick the option that gives their correct order.

A. At the onset of his journey, his mother guides him on how to survive and navigate the world.

B. 'Silo's Journey' is a film made by a wildlife film director.

C. It follows the journey of a young reindeer's first year at close range.

D. Sharing this journey is his friend-a curious red-haired squirrel.

(a) CABD
(b) BDCA
(c) DABC
(d) BCAD

Q14. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

It is evident from current research that young adults is more like to develop an interest in spoken English if there is a change in methodology.

(a) is more likely
(b) No Improvement
(c) are more like
(d) are more likely

Q15. Select the synonym of the given word.

HAUGHTY

(a) Arrogant
(b) Talkative
(c) Quiet
(d) Humble

Q16. Select the word which means the same as the group of words given:

A part of the city especially the slum area

(a) Metropolis
(b) Ghetto
(c) Suburb
(d) Colony

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

Firecrackers have seized by the government went off while being defused on the banks of the river Ganga, in a town in West Bengal.

(a) on the banks of the river Ganga
(b) while being defused
(c) in a town in West Bengal
(d) Firecrackers have seized by the government

Q18. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

I think you'd better paid online immediately as you may not get time to visit the bank later on during the day.

(a) you'd have better pay
(b) No Improvement
(c) you'd better paying
(d) you'd better pay

Q19. Select the wrongly spelt word.

(a) Evidently
(b) Accidentally
(c) Diferently
(d) Prudently

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Q20. Given below are four jumbled sentences. Pick the option that gives their correct order.

A. Soon a special friendship develops between the two girls in war-torn Syria.

B. While at her grandmother's place, Suzan meets Rana, a Syrian girl, who lives in a nearby refugee camp.

C. 'Summer with Rana' is a film by Sanne Vogel, who began her film career as early as 17.

D. Her film revolves around Suzan, the young girl who is spending her summer holiday with her grandmother, while her mother has gone to Syria, as a war reporter.

(a) BDAC
(b) ADBC
(c) CADB
(d) CDBA

Q21. Select the most appropriate antonym of the given word:

COARSE

(a) Colourful
(b) Vulgar
(c) Refined
(d) Common

Q22. Select the word which means the same as the group of words given:

Making one feel very sad

(a) Heart - to - heart
(b) Heart - searching
(c) Heart - stopping
(d) Heart - wrenching

Q23. Select the wrongly spelt word.

(a) Truism
(b) Mileage
(c) Gait
(d) Privilige

Q24. Select the most appropriate meaning of the given idiom:

The straw that broke the camel's back

(a) To make a wish for an escape from existing conditions
(b) To show strength and continue without a fuss
(c) To undertake a difficult journey across a desert
(d) To be the last in a series of events leading one to feel that it is intolerable

Q25. Select the most appropriate word to fill in the blank.

Prince Harry and his wife, Megan Markle announced their decision to _____ from their role as senior royals by leaving the United Kingdom and limiting their royal commitments.

(a) step back
(b) step on
(c) step up
(d) step in

GENERAL INTELLIGENCE

Q26. A cube of 4 cm size is painted green on all six faces. It is cut into smaller cubes of 1 cm size. How many cubes are there with 3 green faces?

(a) 16
(b) 12
(c) 8

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(d) 4

Q27. Mahira bought some erasers and some pens for Rs. 42. Each eraser costs Rs. 5 and each pen costs Rs. 9. How many erasers did she buy?

(a) 7
(b) 8
(c) 3
(d) 6

Q28. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

PA_A_AP_P_Y_PA_AY_

(a) AYPPAAA
(b) PYAAAPA
(c) AYAPAPP
(d) YAPPAPA

Q29. Select the option that is related to the third word in the same way as the second word is related to the first word.

Sand : Desert :: Water : ?

(a) Ice
(b) Ocean
(c) Vapour
(d) Land

Q30. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

(a) JPLNDW
(b) BYIRJQ
(c) FUEVHS
(d) CXGTIR

Q31. Pointing to Rehan, Rukhshana said, "His paternal grandfather's daughter-in-law is my daughter's paternal grandmother". How is Rukhshana related to Rehan?

(a) Wife
(b) Daughter
(c) Mother
(d) Sister

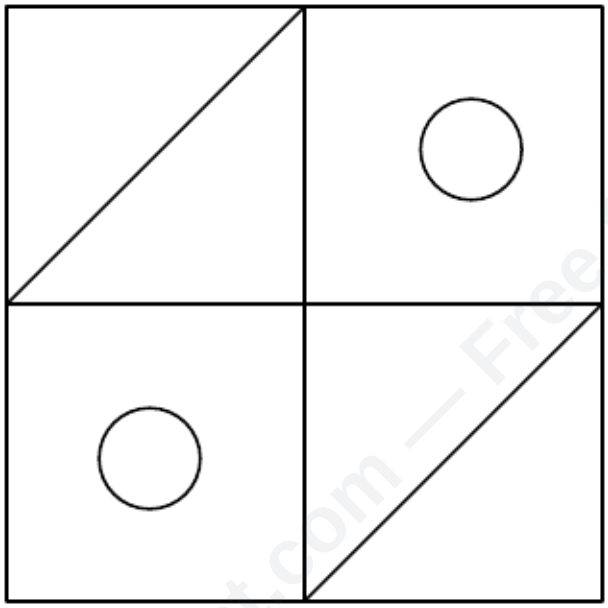
Q32. Select the option in which the numbers are related in the same way as are the numbers in the following set.

(12, 27, 9)

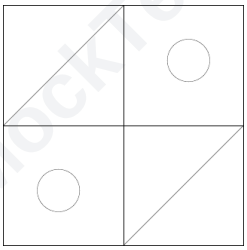
(a) (11, 21, 7)
(b) (5, 18, 8)
(c) (14, 21, 6)
(d) (15, 52, 13)

Q33. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

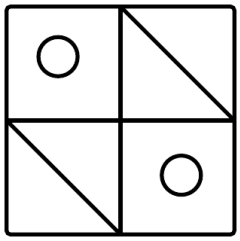
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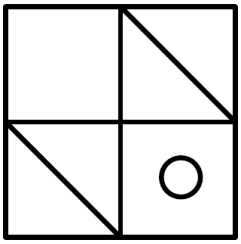
(a)



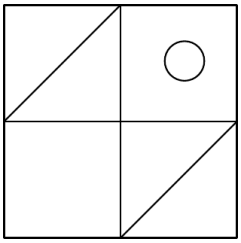
(b)



(c)

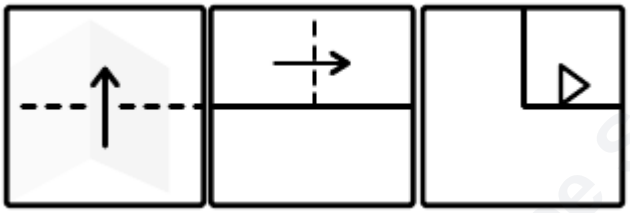


(d)

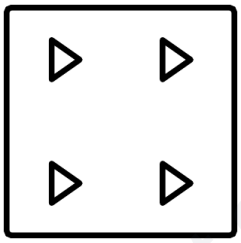


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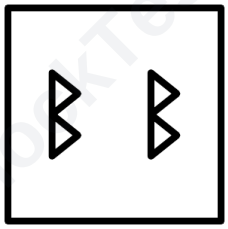
Q34. The sequence of folding a piece of paper and the manner in which the folded paper had been cut is shown in the following figures. How would this paper look when unfolded?



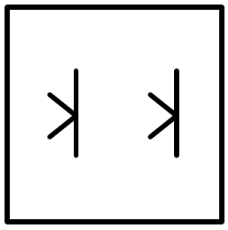
(a)



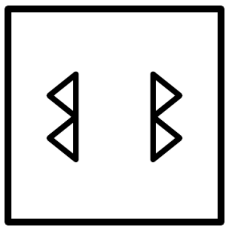
(b)



(c)



(d)



Q35. Select the option in which the numbers are related in the same way as are the numbers in the following set.

(7, 46, 340)

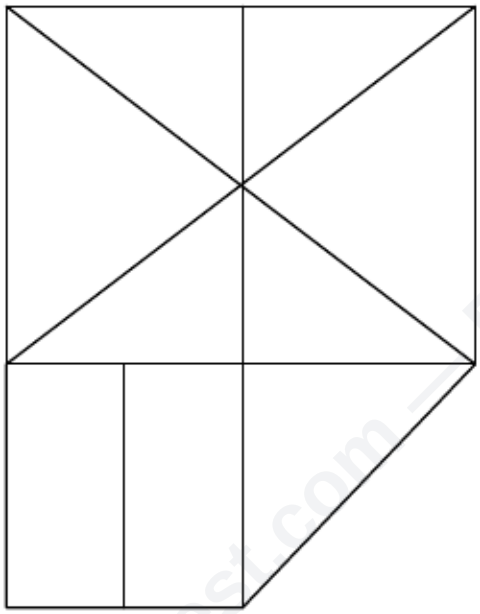
(a) (4, 28, 68)
(b) (8, 68, 500)
(c) (15, 222, 3372)
(d) (5, 22, 130)

Q36. If the word SMART is coded as 191311820, then how will FUNNY be coded?

(a) 621141425
(b) 621131325
(c) 622131325
(d) 620131325

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Q37. How many triangles are there in the given figure?



(a) 14
(b) 12
(c) 7
(d) 13

Q38. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

HEAVY : ICBTZ :: LIGHT : ?

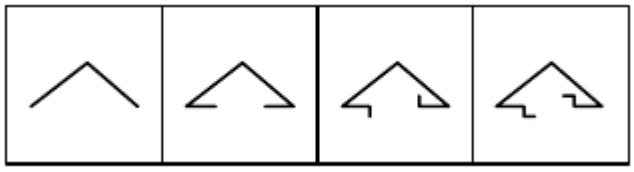
(a) HGMUF
(b) FUGHM
(c) MGHFU
(d) GMFHU

Q39. Select the option that is related to the third word in the same way as the second word is related to the first word.

Angioplasty : Heart :: Dialysis : ?

(a) Lungs
(b) Rib-cage
(c) Kidney
(d) Brain

Q40. Select the figure that will come next in the following figure series.



(a)

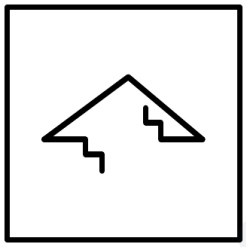


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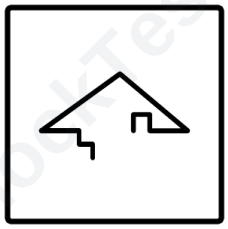
(b)



(c)



(d)



Q41. In a certain code, if BRDKE is written as AQCJD, then SLEEP will be written in that code as:

(a) RKDDO
(b) PNDDO
(c) RJDDN
(d) PJDDQ

Q42. In a certain code language, 'TIGER' is written as 'YMJGS'. How will 'PANDA' be written as in that language?

(a) UEQFB
(b) USIFC
(c) EQUFB
(d) UFSIF

Q43. If '+' means '×', '-' means '+', '×' means '÷' and '÷' means '-', then what is the value of the following equation?

24 × 4 + 12 - 14 ÷ 10

(a) 82
(b) 90
(c) 76
(d) 84

Q44. Identify the number that does NOT belong to the following series.

17, 19, 23, 30, 47, 79

(a) 30
(b) 23
(c) 47
(d) 79

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Q45. The sum of the two digits of a number is 5. If we add 9 to the number we get 50. What is the number?

(a) 32
(b) 23
(c) 14
(d) 41

Q46. Which of the following options of changing the mathematical operations will make the given equation correct?

2 ÷ 3 - 5 × 3 + 3 = 16

(a) ÷ → -, - → ÷, × → +, + → ÷
(b) ÷ → ×, - → ÷, × → +, + → -
(c) ÷ → +, - → ×, × → -, + → ÷
(d) ÷ → ×, - → +, × → ÷, + → -

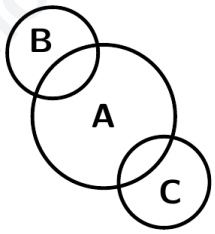
Q47. Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.

(a) Naughty
(b) Creative
(c) Sincere
(d) Kids

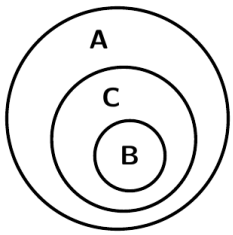
Q48. Select the Venn diagram that best illustrates the relationship between the following classes.

(A) Quadrilateral, (B) Rectangle, (C) Square

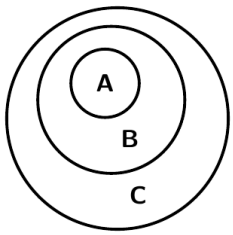
(a)



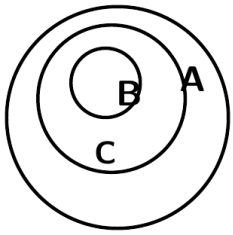
(b)



(c)



(d)



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Q49. Read the given statements and conclusions carefully. Assuming that the information given in the statement is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

(1) All cats are animals.

(2) Some animals are dogs.

Conclusions:

(i) All dogs are animals.

(ii) All animals are cats.

(a) Both conclusions (i) and (ii) follow.

(b) Only conclusion (i) follows.

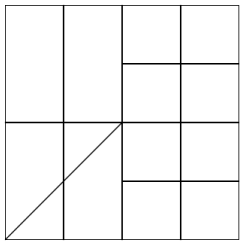
(c) Only conclusion (ii) follows

(d) Neither conclusion (i) nor (ii) follows.

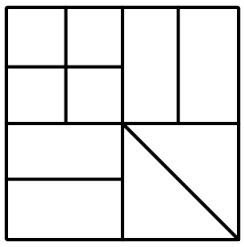
Q50. Select the option in which the given figure (X) is embedded (rotation is not allowed).



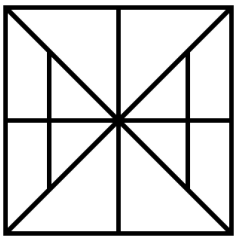
(a)



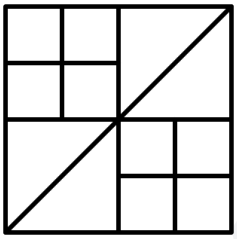
(b)



(c)



(d)



QUANTITATIVE APTITUDE

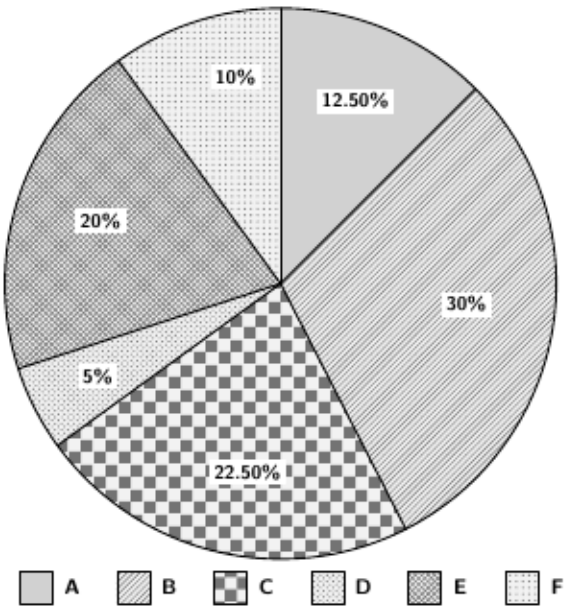
Q51. The average weight of A, B, and C is 55 kg. The weight of C is 10 kg more than A and 5 kg more than B. The average weight of A, B, C, and D, if D's weight is 19 kg more than C, is:

(a) 62 kg
(b) 61 kg
(c) 60 kg
(d) 58 kg

Q52. If $\sec\theta + \tan\theta = 2 + \sqrt{5}$ and θ is an acute angle, then the value of $\sin\theta$ is:

(a) $(\sqrt{5})/5$
(b) $(2\sqrt{5})/5$
(c) 3/5
(d) 1/5

Q53. The pie-chart shows the annual car production (percentage-wise) of six countries A, B, C, D, E, and F. Study the pie chart and answer the question.



Total number of cars produced = 40,00,000

The number of cars produced by country B is what percent more than that produced by country E?

(a) 60%
(b) 40%
(c) 25%
(d) 50%

Q54. If the total simple interest on a sum of Rs. 1,400 for 4 years at rate of interest x% p.a. and on the same sum for two years at the same rate, is Rs. 672, then the value of x is:

(a) 6%
(b) 10%
(c) 9%
(d) 8%

Q55. The ratio of the length and the perimeter of a rectangle is 2 : 7. What is the ratio of the length and breadth of the rectangle?

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

Q56. In a ΔABC, angle A = 90°, if BM and CN are two medians, fracBM² + CN²BC² is equal to:

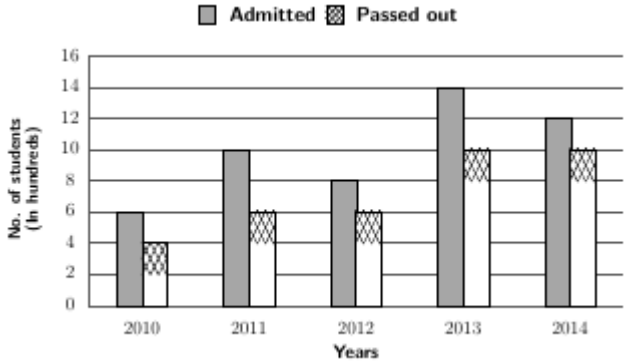
(a) 5/4
(b) 3/5
(c) 3/4
(d) 4/5

Q57. If a + 1/a + 2 = 0, then the value of a^(15) - 1/(a^(100)) is:

(a) • 2
(b) 2
(c) 1
(d) 0

Q58. The bar graph shows the number of students (in hundreds) admitted and passed out per year in a college during the years 2010 to 2014.

Study the bar-graph and answer the question.



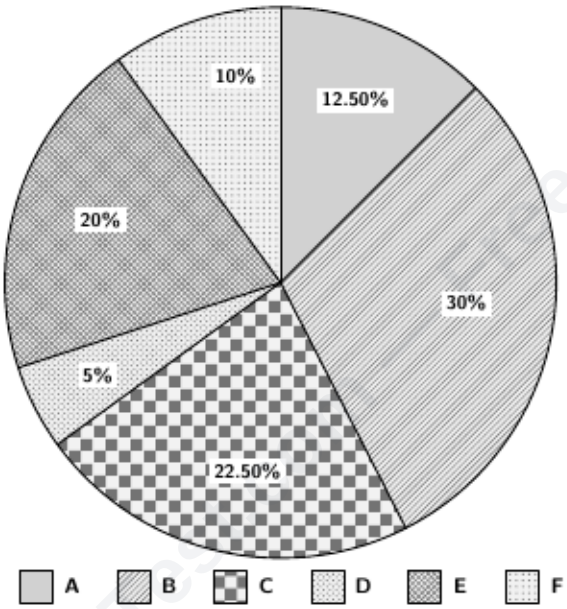
The ratio of the number of students admitted in the year 2012 to the average number of students passed out in the years 2013 and 2014 is:

(a) 4 : 7
(b) 4 : 5
(c) 2 : 5
(d) 3 : 5

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Q59. The pie-chart shows the annual car production (percentage wise) of six countries A, B, C, D, E and F.

Study the pie chart and answer the question.



Total number of cars produced = 40,00,000

If 45% of the cars number of produced by these six countries are diesel cars and the rest are petrol cars, then how many petrol cars were produced?

(a) 22 lakh
(b) 24 lakh
(c) 25 lakh
(d) 20 lakh

Q60. The value of 753/5 ÷ [15 ÷ 3 of 5 + 7 ÷ 1/14 - (78 ÷ 31/3)] is:

(a) 5
(b) 0
(c) 1
(d) 2

Q61. 2^(18) - 1 is divisible by:

(a) 13
(b) 11
(c) 7
(d) 17

Q62. If a dining table with marked price Rs. 6,000 was sold to a customer for Rs. 5,520, then the rate of discount allowed on the marked price of the table is:

(a) 5%
(b) 7%
(c) 8%
(d) 6%

Q63. A and B can do a work in 12 days, B and C can do it in 15 days and C and A can do it in 20 days. If A, B and C work together, then they will complete the same work in:

(a) 14 days
(b) 12 days
(c) 5 days
(d) 10 days

Q64. If $\alpha + \beta = 90°$ and $\alpha = 2\beta$, then the value of $\cos^2\alpha + \sin^2\beta$ is:

(a) 1/5
(b) 1/3
(c) 1/2
(d) 1

Q65. A chord 10 cm long is drawn in a circle of diameter 26 cm. The perpendicular distance of the chord from centre is:

(a) 12 cm
(b) 5 cm
(c) 7 cm
(d) 8 cm

Q66. In ΔABC, AB = AC. If angle A is twice the sum of other two angles of the triangle, then the measure of 1/2 angle A is:

(a) 60°
(b) 70°
(c) 30°
(d) 80°

Q67. If $x + 1/x = \sqrt{3}$, then the value of x^(18) + x^{12} + x^6 + 1 is:

(a) 0
(b) 2
(c) 3
(d) 1

Q68. The elimination of θ from $x\cos\theta - y\sin\theta = 2$ and $x\sin\theta + y\cos\theta = 4$ will give:

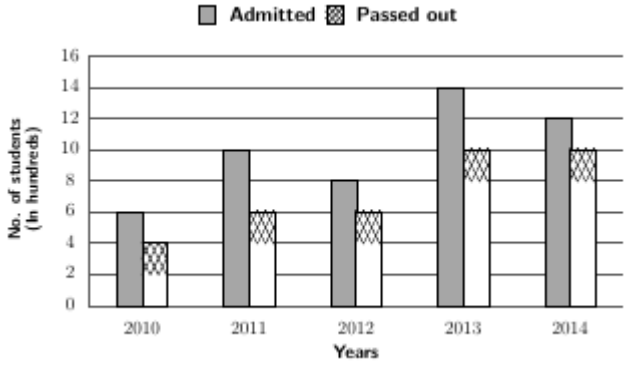
(a) $x^2 - y^2 = 20$
(b) $3x^2 + y^2 = 20$
(c) $x^2 + y^2 = 20$
(d) $3x^2 - y^2 = 20$

Q69. If $4a + 1/5a = 4$, then the value of $25a^2 + 1/(16a^2)$ is:

(a) 55/2
(b) 45/4
(c) 45/2
(d) 43/2

Q70. The bar-graph shows the number of students (in hundreds) admitted and passed out per year in a college during the years 2010 to 2014.

Study the bar-graph and answer the question.



In which of the following years, was the pass percentage between 80 and 85?

(a) 2013
(b) 2012
(c) 2011
(d) 2014

Q71. The profit made by selling an article for Rs. 8,800 is equal to the amount of loss incurred on selling the same article for Rs. 7,200. What will be the profit per cent, if it was sold for Rs. 9,600?

(a) 15%
(b) 25%
(c) 20%
(d) 18%

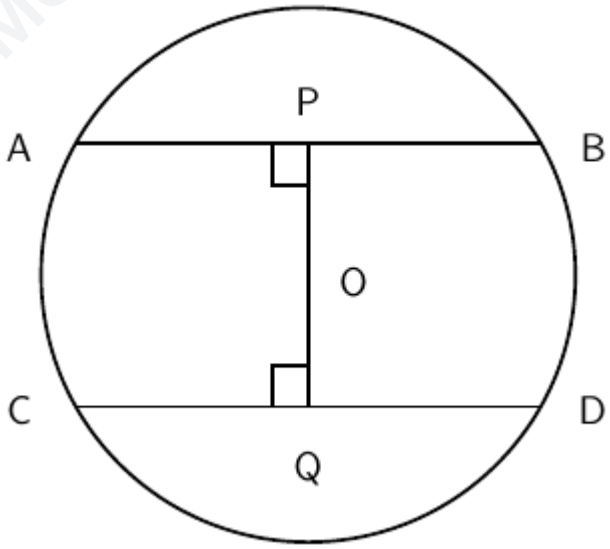
Q72. A shopkeeper has a certain number of apples of which 10% are found to be rotten. He sells 85% of the remaining good apples and still has 405 good apples left with him. How many apples did he originally have?

(a) 3500
(b) 3000
(c) 2500
(d) 2000

Q73. A man is walking at a speed of 12 km/h. After every km, he takes rest for 3 minutes. How much time will he take to cover a distance of 6 km?

(a) 42 minutes
(b) 40 minutes
(c) 48 minutes
(d) 45 minutes

Q74. In the figure, O is the centre of a circle of radius 29 cm, OP perpendicular to AB, OQ perpendicular to CD and AB is parallel CD. If AB = 40 cm and CD = 42 cm, then the length of PQ is:



(a) 41 cm
(b) 20 cm
(c) 32 cm
(d) 21 cm

Q75. 8 pens and 3 pencils cost as much as 3 pens and 9 pencils. What is the ratio of the cost of one pen to the cost of one pencil?

(a) 5 : 4
(b) 6 : 7
(c) 6 : 5
(d) 3 : 2

GENERAL AWARENESS

Q76. In which year did Babur defeat the Sultan of Delhi, Ibrahim Lodi, at Panipat and capture Delhi and Agra?

(a) 1526
(b) 1530
(c) 1543
(d) 1494

Q77. In which year was the Kaziranga National Park declared as a Reserved Forest?

(a) 1908
(b) 1925
(c) 1900
(d) 1940

Q78. In Microsoft Office 2016, which shortcut key is used to open the Design tab?

(a) Shift + F3
(b) Ctrl + A
(c) Alt + G
(d) Ctrl + K

Q79. What is the chemical formula of dichlorodifluoromethane?

(a) CH2FCF3
(b) C2HCl2F3
(c) CCl2F2
(d) CHClF2

Q80. In which year was the ‘Ramnath Goenka Excellence in Journalism’ award instituted in India?

(a) 2008
(b) 2006
(c) 2007
(d) 2010

Q81. In which state is the ‘Chapchar Kut’ festival celebrated in the month of March every year?

(a) Uttarakhand
(b) Mizoram
(c) Odisha
(d) Nagaland

Q82. The Union Minister for Health and Family Welfare launched a campaign to reduce child mortality due to pneumonia in November 2019. What is the name of that campaign?

(a) SAANS
(b) MUSKAN
(c) BACHPAN
(d) JEEVAN JYOT

Q83. What is the height of Mt. Godwin Austen, also known as Mt. K2?

(a) 8611 m
(b) 8481 m
(c) 8511 m
(d) 8653

Q84. Who won India's first gold medal at the Asian Wrestling Championship 2019?

(a) Gyanender
(b) Gurpreet Singh
(c) Sunil Kumar
(d) Bajrang Punia

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Q85. At which position was India ranked at the 14th Asian Shooting Championship?

(a) Fourth
(b) Fifth
(c) Seventh
(d) Second

Q86. According to a Social Mobility Index released by World Economic Forum on 20 January 2020, India was ranked at which position?

(a) 76^(th)
(b) 55^(th)
(c) 40^(th)
(d) 82^(nd)

Q87. Which Mumbai cricketer became the youngest batsman in the world to score a double hundred in list A cricket?

(a) Hardik Tamore
(b) Prithvi Shaw
(c) Yashasvi Jaiswal
(d) Bhupen Lalwani

Q88. Aqua regia is a freshly prepared mixture of concentrated hydrochloric acid and concentrated nitric acid. What is the ratio of this mixture?

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

Q89. In which city was the ‘11th Nuclear Energy Conclave (NEC)-2019’ held?

(a) New Delhi
(b) Pune
(c) Chennai
(d) Bengaluru

Q90. Which article of the Constitution of India states that no citizen can be discriminated against on the basis of his/her religion, race, caste, sex or place of birth?

(a) Article 39
(b) Article 15
(c) Article 23
(d) Article 45

Q91. On whose birth anniversary did Kanshi Ram found the Bahujan Samaj Party?

(a) Periyar Ramasamy
(b) Jyotirao Phule
(c) Waman Chindhuji Meshram
(d) BR Ambedkar

Q92. How many countries were members of International Finance Corporation (IFC) till April 2019?

(a) 196
(b) 180
(c) 190
(d) 185

Q93. Who among the following writers was conferred with the ‘29th Saraswati Samman’ for his short stories collection 'Chequebook'?

(a) Padma Sachdev
(b) Vasdev Mohi

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(c) Amitabha Bagchi
(d) Leeladhar Jagudi

Q94. Which of the following cell organelles is responsible for the storage, modification and packaging of products in vesicles?
(a) Plastids
(b) Mitochondria
(c) Endoplasmic reticulum
(d) Golgi apparatus

Q95. In which year did the government of India approve the release of a commemorative stamp to mark the 50th anniversary of the Bhakra-Nangal Dam?
(a) 2015
(b) 2016
(c) 2013
(d) 2010

Q96. Which type of computers is used to control air traffic and radar of national defence?
(a) Hybrid computers
(b) Personal computers
(c) Analogue computers
(d) Digital computers

Q97. Who was appointed as the Curator of Ancient Monuments in 1880?
(a) HH Cole
(b) James Fergusson
(c) John Marshall
(d) John cavet

Q98. Which of the following is the most dominant species of trees found in the Tropical Deciduous Forests of India?
(a) Coconut tree
(b) Teak tree
(c) Deodar tree
(d) Rubber tree

Q99. On 19 January 2020, India successfully test-fired a nuclear-capable K-4 ballistic missile off the coast of Andhra Pradesh. What is the strike range of this missile?
(a) 5,000 km
(b) 1,000 km
(c) 3,500 km
(d) 700 km

Q100. As of January 2020, how many cultural properties from India were inscribed in the UNESCO World Heritage List?
(a) 25
(b) 31
(c) 35
(d) 30

ANSWER KEY

1	a	2	a	3	b	4	c	5	c	6	d	7	d	8	b	9	d	10	b
11	a	12	c	13	d	14	d	15	a	16	b	17	d	18	d	19	c	20	d
21	c	22	d	23	d	24	d	25	a	26	c	27	c	28	b	29	b	30	a
31	a	32	c	33	b	34	d	35	c	36	a	37	a	38	c	39	c	40	c

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41	a	42	a	43	c	44	a	45	d	46	c	47	d	48	d	49	d	50	c
51	b	52	b	53	d	54	d	55	d	56	a	57	a	58	b	59	a	60	c
61	c	62	c	63	d	64	c	65	a	66	a	67	a	68	c	69	c	70	d
71	c	72	b	73	d	74	a	75	c	76	a	77	a	78	c	79	c	80	b
81	b	82	a	83	a	84	d	85	a	86	a	87	c	88	d	89	a	90	b
91	d	92	d	93	b	94	d	95	c	96	a	97	a	98	b	99	c	100	d

SOLUTIONS

Q1. Answer: (a) Anya suggested that we sit out in the sun.

The correct answer is - Anya suggested that we sit out in the sun.

Key Points

• Let's look at the steps to change the sentence from direct to indirect speech:

• When the direct speech is in an imperative form, we follow the steps given below:

• Change the sentence in direct speech from imperative to assertive.

• The tense of reported speech is changed only when the reporting verb is in the past tense.

• The reporting verb said is converted into suggested.

• 'That' is used in place of comma and inverted commas followed by the pronoun 'we' which replaces Let's.

• At last, line up the remaining part.

Following these steps, we finally get - Anya suggested that we sit out in the sun.

Q2. Answer: (a) Philanthropist

The correct answer is- Philanthropist.

Key Points

• Let's look at the meanings of the given word and marked option:

• Altruist- a person who seeks to promote the welfare of others, especially by the generous donation of money to good causes; Philanthropist

• Let's look at the meanings of the other given options:

• Impressionist- a painter, writer, or composer who is an exponent of impressionism

• Nutritionist- a person who studies or is an expert in nutrition

• Individualist- a person who is independent and self-reliant

• Hence from the given meanings, we find that Altruist and Philanthropist are synonyms.

Q3. Answer: (b) To be in low spirits

The correct answer is- To be in low spirits.

Key Points

• Let's look at the meaning of the given idiom:

• Under the weather- to support or enable to survive temporarily

• Example:

• She was sufficiently under the weather to have to pull out of the championship.

Additional Information

• Let's look at the origin of the idiom:

• The origin of this phrase can be traced to maritime sources.

• In old days, when a sailor was not feeling well, he would be sent below deck to recover, so that he could be away from the weather.

Q4. Answer: (c) ongoing

The correct answer is- ongoing.

Key Points

• Let's have a look at the meanings of the given verbs:

• onset- the beginning of something, especially something unpleasant
• foregone- omit or decline to take (something pleasant or valuable); go without
• ongoing- continuing; still in progress
• postponed- cause or arrange for (something) to take place at a time later than that first scheduled
• As per the latter part (this evening) of the sentence, the Classical Indian Music Festival has still been going on.
• Hence in the given blank part of the sentence, the correct choice will be the 3rd option i.e. ongoing.

Q5. Answer: (c) to reuse

The correct answer is- to reuse.

Key Points

• Let's have a look at the meanings of the given verbs:
• Redo- do (something) again or differently
• Reuse- use again or more than once
• As per the context of the sentence, there can be many ways to recycle and use the products again.
• Hence in the given blank part of the sentence, the correct choice will be the 3rd option i.e. to reuse.

Q6. Answer: (d) just

The correct answer is- just.

Key Points

• An adverb is a word or phrase that modifies or qualifies an adjective, verb, or other adverb or a word group, expressing a relation of place, time, circumstance, manner, etc.
• Let's have a look at the meanings of the given adverbs:
• seldom- not often; rarely
• never- at no time in the past or future; on no occasion; not ever
• just- really; absolutely (used for emphasis)
• As per the context of the sentence, the surface of the carrots only needs to be scrubbed off gently to avoid wastage of food.
• Hence in the given blank part of the sentence, the correct choice will be the 4th option i.e. just.

Q7. Answer: (d) product

The correct answer is- product.

Key Points

• Let's look at the meaning of the base word:
• produce- make or manufacture from components or raw materials
• Let's look at the meanings of the other given options:
• producer- a person, company, or country that makes, grows, or supplies goods or commodities for sale
• productive- producing or able to produce large amounts of goods, crops, or other commodities
• production- the action of making or manufacturing from components or raw materials, or the process of being so manufactured
• product- an article or substance that is manufactured or refined for sale
• As per the context of the sentence, each part of the food commodity should be used.
• Hence, from the given meanings, we find that product is the correct choice.

Q8. Answer: (b) in

The correct answer is- in.

Key Points

• Let's look at the use of these three prepositions in the context of time and place:
• Use 'in' to refer to indicate a location, longer period of time, such as months, years, decades, or centuries such as:
• in a hotel, in April, in 2015, or in the 21st century.
• Use 'on' to talk about particular days, dates, and holidays such as:
• on Monday, on Memorial day, on Diwali, etc.
• For the most specific times or places, and for holidays without the word “day,” we use 'at' such as:
• at midnight, at noon, at 7 pm, at home, at the office, etc.
• As a location i.e. 'restaurants' is given, 'in' will be used in the blank part of the sentence.

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Additional Information

• There are certain phrases/nouns which are not preceded by a preposition (especially 'on').

• Some of them are given below:

• today, tomorrow, yesterday, the next day/month/year, tonight, last night, etc.

• Example:

• I met her on last Saturday.

• I met her last Saturday.

Q9. Answer: (d) are passionate

The correct answer is- are passionate.

Key Points

• In a sentence, the verb is used according to person and number.

• The verb always conforms to the main subject of the sentence.

• In the given sentence, the main subject is 'chefs' which is plural.

• Hence, the auxiliary verb will also be plural i.e. 'are' as the given sentence is in the present tense.

• The adjective 'passionate' will follow the auxiliary verb 'are' to qualify the noun 'cooking'.

• Thus the 4th option will be the correct choice.

Q10. Answer: (b) I was told by the vet to put eye drops and ointment in my pet’s eyes.

The correct answer is- I was told by the vet to put eye drops and ointment in my pet’s eyes.

Key Points

• The given sentence is in an active voice form, hence we need to convert it into a passive voice form.

• Find the subject (The vet) and object (me) of the sentence and exchange their places.

• The given sentence is in the simple past tense. The passive verb form for simple past is:

• was/were + past participle form of the verb.

• So, 'told' changes to 'was told'.

• At last line up the remaining part.

Following these steps, we finally get- I was told by the vet to put eye drops and ointment in my pet’s eyes.

Additional Information

• Certain verbs are followed by certain prepositions. Some of them are given below:

• vexed at, surprise/astonished/amazed at, known to, tired of, engulfed in, etc.

• Example:

• His weird behaviour surprised me. (active)

• I was surprised at his weird behavior. (passive)

Q11. Answer: (a) while practice for the Khelo India Games

The correct answer is- while practice for the Khelo India Games.

Key Points

• Let's understand the difference between the adverbs given below:

• When- at or on which (referring to a time or circumstance)

• While- during the time that; at the same time as

• We use 'while' with two continuous actions and 'when' with two single actions.

• Example:

• He was playing while I was studying. (two continuous actions)

• I picked up the phone when it rang. (two single actions)

• Since two events are taking place simultaneously (the archer getting hurt and practising), present participle i.e. practising will be used in the 1st option.

Correct Sentence: A 12-year-old archer was airlifted to Delhi when he met with an accident while practising for the Khelo India Games in Guwahati.

Additional Information

• Let's understand the difference between the adverbs given below:

• Hard- With a great amount of effort.

• Hardly- scarcely (used to qualify a statement by saying that it is true to an insignificant degree).
• For example:
• He hard does any work*.*
• He hardly does any work.

Q12. Answer: (c) Ignore

The correct answer is- Ignore.

Key Points

• Let's look at the meanings of the given word and marked option:
• Contemplate- look thoughtfully for a long time at
• Ignore- refuse to take notice of or acknowledge; disregard intentionally
• Let's look at the meanings of the other given options:
• Deify- worship, regard, or treat (someone or something) as a god
• Conceive- become pregnant with (a child)
• Meditate- think deeply or carefully about (something)
• Hence from the given meanings, we find that Contemplate and Ignore are antonyms.

Additional Information

• Let's look at the antonyms for the given word:
• Antonyms- overlook, neglect, disregard, exclude

Q13. Answer: (d) BCAD

The correct answer is - BCAD.

Key Points

• While arranging the parts of the passage, we should find some grammatical or contextual connections between them:
• Sentence B introduces us to the film 'Silo's journey'. It is the introductory sentence and will be put in the first place.
• Sentence C tells us about the subject which the above-mentioned movie is based on. It will be put in second place.
• Sentence A tells us about the advice given by the mother of the young reindeer. It will be put in third place.
• The last sentence is D as it mentions the narrator of the story i.e. a curious red-haired squirrel.
• Thus, the correct order is - BCAD

Q14. Answer: (d) are more likely

The correct answer is- are more likely.

Key Points

• In a sentence, the verb is used according to person and number.
• The verb always conforms to the main subject of the sentence.
• In the given sentence, the main subject is 'adults' which is plural.
• Hence, the auxiliary verb will also be plural i.e. 'are' as the given sentence is in the present tense.
• The adjective 'likely' will follow the determiner 'more' as it means such as well might happen or be true; probable.

Correct Sentence: It is evident from current research that young adults are more likely to develop an interest in spoken English if there is a change in methodology.

Additional Information

• If an article is used before every subject, it denotes different people/things. Hence, a plural verb will be used.
• Example:
• The writer and the poet has come. (incorrect)
• The writer and the poet have come. (correct)

Q15. Answer: (a) Arrogant

The correct answer is- Arrogant.

Key Points

• Let's look at the meanings of the given word and marked option:
• Haughty- arrogantly superior and disdainful

• Arrogant- having or revealing an exaggerated sense of one's own importance or abilities
• Let's look at the meanings of the other given options:
• Talkative- fond of or given to talking
• Quiet- making little or no noise
• Humble- having or showing a modest or low estimate of one's own importance
• Hence from the given meanings, we find that Haughty and Arrogant are synonyms.

Q16. Answer: (b) Ghetto

The correct answer is- Ghetto.

Key Points

• Let's look at the meaning of the marked option:
• Ghetto- a part of a city, especially a slum area, occupied by a minority group or groups
• Let's look at the meanings of the other given options:
• Metropolis- the capital or chief city of a country or region
• Suburb- an outlying district of a city, especially a residential one
• Colony- a group of people of one nationality or ethnic group living in a foreign city or country
• Hence, from the given meanings, we find that Ghetto is the correct one-word substitute.

Q17. Answer: (d) Firecrackers have seized by the government

The correct answer is- Firecrackers have seized by the government.

Key Points

• The present perfect tense is a verb tense that shows an action or state that either occurred at an indefinite time in the past or began in the past and continued to the present time.
• The structure is given below:
• Subject + has/have + V3 + object. (active voice)
• Object + has/have + been + V3 + subject. (passive voice)
• Example:
• He has played some matches for the Indian Cricket team. (active voice)
• Some matches have been played by him for the Indian Cricket team. (passive voice)
• In the given blank, we need to follow the structure in the passive voice form as reflected by the usage of the preposition 'by'.
• Hence according to the rule given above, 'have been seized' is the most appropriate choice.

Correct Sentence: Firecrackers have been seized by the government went off while being defused on the banks of the river Ganga, in a town in West Bengal.

Q18. Answer: (d) you’d better pay

The correct answer is- you’d better pay.

Key Points

• We use 'had better' to refer to the present or the future, to talk about actions we think people should do or which are desirable in a specific situation.
• The verb form is always had, not have. We normally shorten it to ’d better in informal situations.
• It is followed by the infinitive without to i.e. bare infinitive.
• Example:
• I’d better to go now before the traffic gets too bad.
• I’d better go now before the traffic gets too bad.
• In the underlined part of the given question, 'you’d better pay' will be used as per the rule given above.

Correct Sentence: I think you’d better pay online immediately as you may not get time to visit the bank later on during the day.

Additional Information

• Let's have a look at the modal formations given below:
• Can/could not help + V1 + ing
• Can/could not help + but + V1
• Both of the phrases mean to have a compulsion to do something that is too strong to ignore or avoid.
• Example:

• My cousin can't help but meddling in my life.
• My cousin can't help but meddle in my life.

Q19. Answer: (c) Diferently

The solution is in Hindi. Read it online.

Q20. Answer: (d) CDBA

The correct answer is - CDBA.

Key Points

• While arranging the parts of the passage, we should find some grammatical or contextual connections between them:
• Sentence C introduces us to the film 'Summer with Rana'. It is the introductory sentence and will be put in the first place.
• Sentence D tells us about the subject which the above-mentioned movie is based on i.e. Suzan. It will be put in second place.
• Sentence B tells us about another character i.e. Rana who lives in a nearby refugee camp. It will be put in third place.
• The last sentence is A as it mentions the bond between the protagonist and her grandmother.
• Thus, the correct order is - CDBA

Q21. Answer: (c) Refined

The solution is in Hindi. Read it online.

Q22. Answer: (d) Heart - wrenching

The correct answer is- Heart-wrenching.

Key Points

• Let's look at the meaning of the marked option:
• Heart-wrenching- extremely sad or distressing
• Let's look at the meanings of the other given options:
• Heart-to-heart- (of a conversation) candid, intimate, and personal
• Heart-stopping- thrilling; full of suspense
• Heart-searching- thorough, typically painful examination of one's feelings and motives
• Hence, from the given meanings, we find that Heart-wrenching is the correct one-word substitute.

Q23. Answer: (d) Privilige

The correct answer is - Privilige.

Key Points

• Let's look at the correct spelling and meaning of the marked option:
• Privilege- a special right, advantage, or immunity granted or available only to a particular person or group
• Example:
• Senior management enjoys certain privileges, such as company cars and health insurance.
• Let's look at the meanings of the other given options:
• Truism- a statement that is obviously true and says nothing new or interesting
• Mileage- a number of miles traveled or covered
• Gait- a person's manner of walking

Q24. Answer: (d) To be the last in a series of events leading one to feel that it is intolerable

The correct answer is- To be the last in a series of events leading one to feel that it is intolerable.

Key Points

• Let's look at the meaning of the given idiom:
• The straw that broke the camel’s back- the last in a series of bad things that happen to make someone very upset, angry, etc
• Example:
• It had been a difficult week, so when the car broke down, it was the straw that broke the camel's back.

Additional Information

• Let's look at the origin of the idiom:
• According to Wikipedia, the straw that broke the camel's back is from an Arabic proverb about “how a camel is loaded beyond its capacity to move or stand”.

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• It is a "reference to any process by which cataclysmic failure (a broken back) is achieved by a seemingly inconsequential addition, a single straw."

Q25. Answer: (a) step back

The correct answer is- step back.

Key Points

• Let's look at the meanings of the following phrasal verbs:

• step back- to stop doing something or being actively involved in something for a time

• step on- to place or press the foot on

• step up- to increase, augment, or advance especially by one or more steps

• step in- enter into an activity or situation

• As per the context of the sentence, Prince Harry and his wife decided to voluntarily leave their position as senior royals.

• The phrasal verb 'step back' will be the correct choice in the blank part of the sentence.

Correct Sentence: Prince Harry and his wife, Megan Markle announced their decision to step back from their role as senior royals by leaving the United Kingdom and limiting their royal commitments.

Q26. Answer: (c) 8

The given cube is cut into smaller cubes of 1 cm each.

When painted on all six faces, the corner cubes are the only cubes with 3 green faces.

The number of corners for a cube = 8 (4 (front) + 4 (back))

Hence, the number of cubes with 3 green faces is 8.

Hence, the correct answer is "8".

Q27. Answer: (c) 3

From the given information:

Cost of each eraser = Rs. 5

Cost of each pen = Rs. 9

Total cost = Rs. 42

Let the number of erasers Mahira bought be x and the number of pens she bought be y.

Total cost of erasers = 5x

Total cost of pens = 9y

=> 5x + 9y = 42

Both x and y need to be integers as they represent the number of items.

From the options, the number of erasers Mahira bought (x):

1) 7

Substituting x = 7 in the equation:

5 × 7 + 9y = 42

35 + 9y = 42

9y = 42 - 35

9y= 7

y = 7 ÷ 9

y = 0.77, which is not an integer.

2) 8

Substituting x = 8 in the equation:

5 × 8 + 9y = 42

40 + 9y = 42

9y = 42 - 40

9y = 2

y = 2 ÷ 9

y = 0.22, which is not an integer.

3) 3

Substituting x = 3 in the equation:

5 × 3 + 9y = 42

15 + 9y = 42
9y = 42 - 15
9y = 27
y = 27 ÷ 9
y = 3, which is an integer.
4) 6
Substituting x = 6 in the equation:
5 × 6 + 9y = 42
30 + 9y = 42
9y = 42 - 30
9y = 12
y = 12 ÷ 9
y = 1.33, which is not an integer.
So, Mahira bought 3 erasers and 3 pens.
Hence, the correct answer is "3".

Q28. Answer: (b) PYAAAPA

The given series is
PA_A_AP_P_Y_PA_AY_
Sequentially filling the blanks with the letters given in the options:-

(1)	**P**	**A**	**A**	**A**	**Y**	**A**	**P**	**P**	**P**	**P**	**Y**	**A**	**P**	**A**	**A**	**A**	**Y**	**A**
(2)	P	A	P	A	Y	A	P	A	P	A	Y	A	P	A	P	A	Y	A
(3)	P	A	A	A	Y	A	P	A	P	P	Y	A	P	A	P	A	Y	P
(4)	P	A	Y	A	A	A	P	P	P	P	Y	A	P	A	P	A	Y	A

The pattern in the option (2) is PAPAYA / PAPAYA / PAPAYA.
Hence, the correct answer is "PYAAAPA".

Q29. Answer: (b) Ocean

The pattern followed is:-
A desert is a geographic feature of Earth that consists of sand.
Similarly,
An ocean is a geographic feature of Earth that consists of water.
Hence, the correct answer is "Ocean".

Q30. Answer: (a) JPLNDW

The pattern followed is:-
The second letter is the reverse letter of the first letter.
The fourth letter is the reverse letter of the third letter.
The sixth letter is the reverse letter of the fifth letter.
Options 2, 3 and 4 follow the same pattern, whereas option 1 is different.
Hence, the correct answer is "JPLNDW".

Q31. Answer: (a) Wife

Symbols used to draw the family tree:-
Drawing the family tree,
So, Rukshana is the wife of Rehan.
Hence, the correct answer is "Wife".

Q32. Answer: (c) (14, 21, 6)

The logic followed is:-
Middle number = (First number × Third number) ÷ 4
For the given set (12, 27, 9)

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(First number × Third number) ÷ 4
12 × 9 ÷ 4
108 ÷ 4
27 = 27
Checking the options:-
1) (11, 21, 7)
(First number × Third number) ÷ 4
(11 × 7) ÷ 4
77 ÷ 4
19.25 ≠ 21
2) (5, 18, 8)
(First number × Third number) ÷ 4
(5 × 8) ÷ 4
40 ÷ 4
10 ≠ 18
3) (14, 21, 6)
(First number × Third number) ÷ 4
(14 × 6) ÷ 4
84 ÷ 4
21 = 21
4) (15, 52, 13)
(First number × Third number) ÷ 4
(15 × 13) ÷ 4
195 ÷ 4
48.72 ≠ 52
Hence, the correct answer is "(14, 21, 6)".

Q33. Answer: (b) [figure]

The mirror image formed when the mirror is held at the right side of the figure is:-
Hence, the correct answer is Option 2.

Q34. Answer: (d) [figure]

The paper when unfolded looks like:-
Hence, the correct answer is "Option 4".

Q35. Answer: (c) (15, 222, 3372)

The pattern followed is:-
Second Number = (First Number)^2 - 3
Third number = (First number)^3 - 3
The given set is (7, 46, 340) = (7, 72 - 3, 73 - 3)
Checking the options:-
1) (4, 28, 68)
Second Number = (First Number)2 - 3
= 4^2- 3
= 16 - 3
= 13 ≠ 28
Third number = (First number)3 - 3
= 4^3 - 3
= 64 - 3
= 61 ≠ 68
2) (8, 68, 500)
Second Number = (First Number)2 - 3
= 8^2 - 3

= 64 - 3
= 61 ≠ 68
Third number = (First number)3 - 3
= 8^3 - 3
= 512 - 3
= 509 ≠ 500
3) (15, 222, 3372)
Second Number = (First Number)2 - 3
= 15^2 - 3
= 225 - 3
= 222 = 222
Third number = (First number)3 - 3
= 15^3 - 3
= 3375 - 3
= 3372 = 3372
4) (5, 22, 130)
Second Number = (First Number)2 - 3
= 5^2 - 3
= 25 - 3
= 22 = 22
Third number = (First number)3 - 3
= 5^3 - 3
= 125 - 3
= 122 ≠ 130
Hence, the correct answer is "(15, 222, 3372)".

Q36. Answer: (a) 621141425

The logic followed here is:

Letter	Place value
S	19
M	13
A	1
R	18
T	20

In the same way,

Letter	Place value
F	6
U	21
N	14
N	14
Y	25

Hence, the correct answer is "621141425".

Q37. Answer: (a) 14

The number of triangles in the given diagram are:
Triangles : ABH, AHG, GHE, BCH, CHD, HED, DEO, AHC, GHD, HDO, ACG, ADG, ADC, CGD
Hence, the total number of triangles is "14".

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Q38. Answer: (c) MGHFU

The pattern followed here is:

Similarly,

Hence, the correct answer is "MGHFU".

Q39. Answer: (c) Kidney

According to the information,

Angioplasty : Heart

Angioplasty is the treatment of unblocking of blood vessels especially in a coronary artery, which is in heart.

Similarly,

Dialysis : Kidney

Dialysis is the process of removing waste products and excess fluid from the body, this process is necessary when the kidneys are functioning.

Hence, the correct answer is "Kidney".

Q40. Answer: (c) [figure]

The pattern followed here is:

Make horizontal lines from both ends, then make a vertical line in a downward direction from the left end and a vertical line in the upward direction from the right end.

Hence, the correct answer is "Option 3".

Q41. Answer: (a) RKDDO

The pattern followed here is,

Subtract 1 from every alphabet's place value.

In the same way,

Hence, the correct answer is "RKDDO".

Q42. Answer: (a) UEQFB

The pattern followed here is,

Starting from the first letter of the given word, add 5, 4, 3, 2, 1 respectively.

In the same way,

Hence, the correct answer is "UEQFB".

Q43. Answer: (c) 76

According to the given information,

Symbol	Meaning
•	×
•	•
×	÷
÷	•

The given equation will be written as:

24 ÷ 4 × 12 + 14 - 10

Now, by using BODMAS rule,

24 ÷ 4 × 12 + 14 - 10

= 6 × 12 + 14 - 10

= 72 + 14 - 10

= 86 - 10

= 76

Hence, the correct answer is "76".

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Q44. Answer: (a) 30

The pattern followed here is:

The difference between numbers is getting doubled.

Here, the wrong term is 30.

Hence, the correct answer is "30".

Q45. Answer: (d) 41

Let the 2 digit number be XY,

According to the given information,

The sum of the two digits of a number is 5,

So, X + Y = 5

If we add 9 to the number we get 50.

So, XY + 9 = 50

XY = 50 - 9

XY = 41

Since the sum is 4 + 1 = 5, it satisfies the equation X + Y = 5.

Hence, the correct answer is "41".

Q46. Answer: (c) ÷ → +, - → ×, × → -, + → ÷

Given equation is → 2 ÷ 3 - 5 × 3 + 3 = 16

After replacing the signs from left to right and using the BODMAS rule,

Option 1 → ÷ → -, - → ÷, × → +, + → ÷

2 - 3 ÷ 5 + 3 ÷ 3 = 16

2 - 0.6 + 3 ÷ 3 = 16

2 - 0.6 + 1 = 16

3 - 0.6 = 16

2.4 ≠ 16

Option 2 → ÷ → ×, - → ÷, × → +, + → -

2 × 3 ÷ 5 + 3 - 3 = 16

2 × 0.6 + 3 - 3 = 16

1.2 + 3 - 3 = 16

4.2 - 3 = 16

1.2 ≠ 16

Option 3 → ÷ → +, - → ×, × → -, + → ÷

2 + 3 × 5 - 3 ÷ 3 = 16

2 + 3 × 5 - 1 = 16

2 + 15 - 1 = 16

17 - 1 = 16

16 = 16

Option 4 → ÷ → ×, - → +, × → ÷, + → -

2 × 3 + 5 ÷ 3 - 3 = 16

2 × 3 + 1.66 - 3 = 16

6 + 1.66 - 3 = 16

7.66 - 3 = 16

4.66 ≠ 16

Hence, the correct answer is "Option 3".

Q47. Answer: (d) Kids

The logic followed here is:

All the given words Naughty, Creative and Sincere are Adjectives while Kids is a noun.

Hence, the correct answer is "Kids".

Additional Information

• Naughty - (comparative naughtier, superlative naughtiest). especially of children behaving badly; not willing to obey a naughty

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boy/girl.

(humorous) I'm being very naughty—I've ordered champagne!

• Creative - having the quality or power of creating. resulting from originality of thought, expression, etc.; imaginative: creative writing. Originative, productive (usually followed by of).

• Sincere - (sincerest) 1(of feelings, beliefs, or behavior) showing what you really think or feel synonym genuine a sincere attempt to resolve the problem sincere regret Please accept our sincere thanks.

• Kid - noun, Informal. a child or young person. Used as a familiar form of address.

Q48. Answer: (d) [figure]

Venn diagram according to the given information is:

Quadrilateral, Rectangle, and Square.

From the Venn diagram.

All the rectangle are quadrilateral.

All the squares are rectangles.

This is because A rectangle is a quadrilateral with four right angles and A square is a special type of rectangle because it possesses all the properties of a rectangle.

Here (c) represents Square, (b) represents Rectangle, and (a) represents Quadrilateral.

Hence, the correct answer is "Option 4".

Additional Information

• A rectangle is a quadrilateral with four right angles. Thus, all the angles in a rectangle are equal (360°/ 4 = 90°). Moreover, the opposite sides of a rectangle are parallel and equal, and diagonals bisect each other.

• A square is a special type of rectangle because it possesses all the properties of a rectangle. Similar to a rectangle, a square has: interior angles which measure 90? each. opposite sides that are parallel and equal.

Q49. Answer: (d) Neither conclusion (i) nor (ii) follows.

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

Conclusions:

i). All dogs are animal → False (It is clear from the given statement that some dogs are animals but we can't say about all dogs are animals or not. It is possible but not definite).

ii). All animals are cat → False (It is clear from the given statement that all the cats are animals but we can't say that all the animals are cats. It is possible but not definite).

Hence, the correct answer is "Neither conclusion (i) nor (ii) follows"

Suppose for an Example: All A are B.

If we go from In to Out means from A to B then cases with All and some will be true like All A are B and Some A are B.

But if we go Out to In then only cases with Some will be true and All will be can't say like Some B are A will be true but All B are A will be can't say.

Q50. Answer: (c) [figure]

As we can see the given figure is embedded in Option 3.

Hence, the correct answer is "Option 3".

Q51. Answer: (b) 61 kg

Given:

The average weight of A, B, and C = 55kg

C is 10 kg more than A

C is 5 kg more than B

D is 19 kg more than C

Formula Used:

Average = Total sum of subjects/Number of Subjects

Calculation:

Therefore A + B + C /3 = 55

Therefore A + B + C = 165 ------(1)

We have given

C = A +10

Therefore A = C - 10

and C = B + 5
Therefore B = C – 5
Putting values of A and B in equation (1)
(C – 10) + (C – 5) + C = 165
=> 3C - 15 = 165
=> 3C = 180
=> C = 180/3 = 60
D = C + 19 = 60 + 19 = 79
Average of A, B, C, and D = A + B + C + D/4
=> (165 + 79) /4
=> 244/4 = 61kg.

Q52. Answer: (b) (2√5)/5

Given:
secθ + tanθ = 2 +√5
Formula Used:
if,secθ + tanθ = a
then secθ - tanθ = 1/a
$\sin^2\theta + \cos^2\theta = 1$
Calculation:
secθ + tanθ = a ------(1)
here a = 2 + √5
Therefore 1/a = 1/(2 + √ 5)
=> 1/a = 1/(2 + √ 5) × (2 - √ 5)/(2 - √ 5)
=> 1/a = (√ 5 - 2)/(5 - 4)
=> 1/a = (√ 5 - 2)/1
=> 1/a = √5 - 2
=> secθ - tanθ = √5 - 2 ------(2)
Therefore Adding equation 1 and 2
=> 2secθ =2√5
=> secθ = √5
=> cosθ = 1/√5
=> sin2θ + cos2θ = 1
=> sin2θ + 1/5 = 1
=> sin2θ = 1 - 1/5
=> sin2θ = 4/5
=> sinθ = 2/√5
=> sinθ = (2√5)/5

Q53. Answer: (d) 50%

Given:
Total number of cars produced = 40,00,000
B = 30% and E = 20%
Formula Used:
%difference production / % based production × 100
Calculation:
we have
100% = 40,00,000
Therefore 1% = 40,00,000/100 = 40,000
Now we have to find,
Production of B is what % more than Production of E
Therefore % difference production (B-E) / %production of E × 100

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We have B = 30% and E = 20%
Therefore (30-20)/20 × 100
Therefore 10/20 × 100
=> 1/2 × 100 = 50%

Q54. Answer: (d) 8%

Given:
simple interest= Rs.1,400
time = 4 years
Formula Used:
SI = P × T × R /100
Calculation:
Let the Rate = x
We know that,
SI = P × T × R /100
=> 672 = 1400 × 4 × x /100 + 1400 × 2 × x /100
=> 672 = 56x + 28x
=> 672 = 84x
=> x = 672/84
=> x = 8
Therefore Rate = 8%

Q55. Answer: (d) 4 : 3

Given:
length and the perimeter of a rectangle is 2 : 7
Formula Used:
Perimeter of a rectangle = 2(l + b)
Calculation:
Let the length and perimeter of a rectangle be 2x and 7x
We know that,
Perimeter of a rectangle = 2(l + b)
Therefore 7x = 2(2x + b)
=> 7x = 4x + 2b
=> 7x - 4x = 2b
=> 3x = 2b
=> b = 3x/2
Therefore Ratio of length and breadth = 2x : 3x/2
Therefore Ratio of length and breadth = 4 : 3

Q56. Answer: (a) 5/4

Given:
angle A = 90°
BM and CN are two medians.
Concept used:
Pythagoras theorem of triangles.
Calculation:
BM is median of triangle ABC.
So, M is midpoint of AC.
=> AM = 1/2 AC .... (1)
NC is median of triangle ABC.
So, N is midpoint of AB.
=> AN = 1/2 AB ..... (2)
ΔACN is a right angle triangle-angled at A.

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So, $CN^2 = AN^2 + AC^2$

=> $CN^2 = (1/2\ AB)^2 + AC^2$(From equation (1))

=> $CN2 = AB^2/4 + AC2$ ..... (3)

ΔABM is a right angle triangle-angled at A.

So, BM2 = AM2 + AB2

=> BM2 = (1/2 AC)2 + AB2 (From equation (1))

=> BM2 = AC2/4 + AB2 ..... (4)

ΔABC is a right angle triangle-angled at A.

So, $BC^2 = AB^2 + AC^2$ .....(5)

Adding equation (3) and (4),

$CN^2 + BM^2 = AB2/4 + AC2 + AC2/4 + AB2$

=> $CN2 + BM2 = (AB^2 + AC^2)/4 + AB^2 + BC^2$

=> $CN2 + BM2 = 5BC^2/4$ (From equation 5)

=> $(CN2 + BM^2)/BC^2 = 5/4$

Therefore The value of (CN2 + BM2)/BC2 is 5/4.

Q57. Answer: (a) • 2

Given:

a + 1/a + 2 = 0

Concept Used :

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

Calculation:

a + 1/a + 2 = 0

=> $a^2 + 1 + 2a = 0$

=> $(a + 1)^2 = 0$

=>a = - 1, -1

a^(15) - 1/(a^(100)) = (- 1)^(15) - 1/(- 1)^(100)

=> -1 - 1

=> - 2

Therefore the value of a15 - 1/(a100) is -2.

Q58. Answer: (b) 4 : 5

Given:

Two type data is given one is admitted student in college and one is passed out student in college.

Formula used:

Average = (sum of observation)/(total numbers of observations)

Calculation:

Number of students admitted in the year 2012 = 800

Number of student passed out in 2013 = 1000

Number of student passed out in 2014 = 1000

The average number of students passed out in the years 2013 and 2014 = (1000 + 1000)/2

=> 1000

The ratio of the number of students admitted in the year 2012 to the average number of students passed out in the years 2013 and 2014 = 800/1000

=> 4/5

=> 4 : 5

Therefore The ratio of the number of students admitted in the year 2012 to the average number of students passed out in the years 2013 and 2014 is 4 : 5.

Q59. Answer: (a) 22 lakh

Given :

Total number of cars produced = 40,00,000

Diesel cars = 45%

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Concept Used:

Percentage formula used.

Calculation:

Percentage of petrol cars = (100 - 45)% = 55%

Number of petrol cars were produced = 55% of 4000000

=> (55 × 4000000)/100

=> 2200000

=> 22 Lakh

Therefore 22 Lakh petrol cars were produced.

Q60. Answer: (c) 1

Given :

753/5 ÷ [15 ÷ 3 of 5 + 7 ÷ 1/14 - (78 ÷ 31/3)]

Concept Used:

Follow BODMAS rule to solve this question, as per the order given below,

Calculation :

753/5 ÷ [15 ÷ 3 of 5 + 7 ÷ 1/14 - (78 ÷ 31/3)]

=> 753/5 ÷ [15 ÷ 3 of 5 + 7 ÷ 1/14 - (78 ÷ 10/3)]

=> 73/5 5 ÷ [15 ÷ 3 of 5 + 7 ÷ 1/14 - 117/5]

=> 753/5 ÷ [15 ÷ 15 + 7 ÷ 1/14 - 117/5]

=> 753/5 ÷ [99 - 117/5]

=> 753/5 ÷ 378/5

=> (378)/5 ÷ 378/5

=> 1

Therefore The value of 753/5 ÷ [15 ÷ 3 of 5 + 7 ÷ 1/14 - (78 ÷ 31/3)] is 1.

Q61. Answer: (c) 7

Formula used:

$a^2 - b^2 = (a + b)(a – b)$

$a^3 – b^3 = (a – b)(a^2 + b^2 + ab)$

Calculation:

=> (2^9 – 1)(2^9 + 1)

=> [$(2^3)^3$ – 1)(2^9 + 1)]

=> [(2^3 – 1)(2^6 + 1 + 2^3)(2^9 + 1)]

=> [(8 – 1)(64 + 1 + 8)(2^9 + 1)]

=> [(7) × (73) × (2^9 + 1)]

Since, 7 is one of the factor of 2^(18)- 1

Therefore It will be divisible by 7.

Q62. Answer: (c) 8%

Given:

Marked price of table(MP) = Rs. 6000

Selling price of table(SP) = Rs. 5520

Formula used:

Discount = Marked Price – Selling Price

Discount% = (MP – SP)/MP × 100

Calculation:

Discount = 6000 – 5520 = 480

Discount% = 480/6000 × 100

=> 8%

Therefore The rate of discount allowed on the marked price of the table is 8%

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Q63. Answer: (d) 10 days

Given:

A and B can do a work in 12 days.

B and C can do it in 15 days

C and A can do it in 20 days

Calculation:

Work done by A and B in 1 day = 1/12 ….(i)

Work done by B and C in 1 day = 1/15 ….(ii)

Work done by C and A in 1 day = 1/20 ….(iii)

Adding (i), (ii) and (iii) we get

Work done by 2(A + B + C) = 1/12 + 1/15 + 1/20

=> (5 + 4 + 3)/60 = 12/60 = 1/5

=> Work done by 1 × (A + B + C) = (1/5) × 1/2

=> Work done by A, B & C in 1 day = 1/10.

Therefore A, B and C together can complete the work in 10 days

Q64. Answer: (c) 1/2

Given:

$\alpha + \beta = 90°$

$\alpha = 2\beta$

Calculation:

$2\beta + \beta = 90°$

$\Rightarrow 3\beta = 90°$

$\Rightarrow \beta = 30°$

Therefore $\alpha = 60°$

Put $\alpha = 60°$ and $\beta = 30°$ in the given equation, $\cos^2\alpha + \sin^2\beta$

$\Rightarrow \cos^2 60° + \sin^2 30°$

$\Rightarrow (1/2)^2 + (1/2)^2$

$\Rightarrow 1/4 + 1/4 = 1/2$

Therefore The correct answer is 1/2.

Important Points

Q65. Answer: (a) 12 cm

Given:

Diameter of circle = 26 cm

Radius OA = 13 cm

Length of chord AB = 10 cm

Concepts used:

Perpendicular drawn from the centre of the circle to the chord, bisects the chord.

Calculation:

AC = AB/2 = 10/2 = 5 cm ….(perpendicular to drawn from the centre of the circle, bisects the chord)

Using Pythagorean Theorem,

$OA^2 = OC^2 + AC^2$

$\Rightarrow 13^2 = OC^2 + 5^2$

$\Rightarrow 169 = OC^2 + 25$

$\Rightarrow OC^2 = 144$

$\Rightarrow OC = 12$ cm

Therefore The perpendicular distance of the chord from centre is 12 cm.

Q66. Answer: (a) 60°

Given :

AB = AC

angle A = twice the sum of other two angles of the triangle

Concept Used:
Sum of all angle in a triangle is 180°.
Opposite angle of equal side is also equal.
Calculation:
angle A = twice the sum of other two angles of the triangle.
So, angle A = 2(angle B + angle C) .....(1)
AB = AC
So, angle B = angle C (Opposite angle of equal side is also equal)
We know that Sum of all angle in a triangle is 180°.
Therefore angle A + angle B + angle C = 180°
=> 2(angle B + angle C) + angle B + angle C = 180°
=> 3(angle B + angle C) = 180°
=> (angle B + angle C) = 60°
1/2 angle A = 2(angle B + angle C) /2 = (angle B + angle C) = 60°
=> 1/2 angle A = (angle B + angle C)
=> 1/2 angle A = 60°
Therefore The measure of 1/2 angle A is 60°.

Q67. Answer: (a) 0

Given:
$x + 1/x = \sqrt{3}$
Calculation:
Taking cube both side of the equation,
$x^3 + 1/(x^3) + 3x \times 1/x(x + 1/x) = 3\sqrt{3}$
$=> x^3 + 1/(x^3) + 3\sqrt{3} = 3\sqrt{3}$
=> (x^6 + 1)/(x³) = 0
=> x^6 + 1 = 0
=> x^6 = - 1
x18 + x12 + x6 + 1
$=> x^{12}$(x^6+ 1) + (x6 + 1)
$=> x^{12} \times 0 + 0$
=> 0
Therefore The value of x18 + x12 + x6 + 1 is 0.

Q68. Answer: (c) $x^2 + y^2 = 20$

Given :
$x\cos\theta - y\sin\theta = 2$
$x\sin\theta + y\cos\theta = 4$
Formula used:
$\sin^2\theta + \cos^2\theta = 1$
$(a + b)^2 = a^2 + b^2 + 2ab$
Calculation:
$x\cos\theta - y\sin\theta = 2$
On squaring we get,
$=> x^2\cos^2\theta + y^2\sin^2\theta - 2(x\cos\theta)(y\sin\theta) = 4$ ….(i)
$x\sin\theta + y\cos\theta = 4$
On squaring we get,
$=> x^2\sin^2\theta + y^2\cos^2\theta + 2(y\cos\theta)(x\sin\theta) = 16$ ….(ii)
On adding eqns (i) and (ii)
$=> x^2\cos^2\theta + y^2\sin^2\theta - 2(x\cos\theta)(y\sin\theta) + x^2\sin^2\theta + y^2\cos^2\theta + 2(y\cos\theta)(x\sin\theta) = 4 + 16$
$=> x^2(\cos^2\theta + \sin^2\theta) + y^2(\sin^2\theta + \cos^2\theta) = 20$
$=> x^2 + y^2 = 20$

Therefore The correct answer is $x^2 + y^2 = 20$

Q69. Answer: (c) 45/2

Given:

$4a + 1/5a = 4$

Formula used:

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

Calculation:

Multiply the given equation by 5/4

$5/4(4a + 1/5a) = 5/4(4)$

$\Rightarrow 5a + 1/4a = 5$

Squaring both sides, we get

$\Rightarrow (5a + 1/4a)^2 = 5^2$

$\Rightarrow 25a^2 + 1/16a^2 + 2(5a)(1/4a) = 25$

$\Rightarrow 25a^2 + 1/16a^2 + 5/2 = 25$

$\Rightarrow 25a^2 + 1/16a^2 = 25 – 5/2$

$\Rightarrow 25a^2 + 1/16a^2 = 45/2$

Therefore The correct answer is 45/2

Q70. Answer: (d) 2014

In 2010 pass percentage = 4/6 × 100 = 66.67%

In 2011 pass percentage = 6/10 × 100 = 60%

In 2012 pass percentage = 6/8 × 100 = 75%

In 2013 pass percentage = 10/14 × = 71.43%

In 2014 pass percentage = 10/12 × = 83.33%

Therefore In 2014 pass percentage is between 80 and 85 which is 83.33%

Q71. Answer: (c) 20%

Given:

The profit made by selling an article for Rs. 8,800 is equal to the amount of loss incurred on selling the same article for Rs. 7,200

Formula used:

Profit = selling price - cost price

Profit% = Profit × 100/cost price.

Calculation:

let cost price be Rs. X

According to the question:

(8800 - X) = (X - 7200)

$\Rightarrow 16000 = 2X$

$\Rightarrow X = 8000$

if sp = 9,600

Then, Profit = selling price - cost price

$\Rightarrow$ Profit = 9600 - 8000 = Rs.1600

Therefore Profit % = Profit × 100/cost price

$\Rightarrow$ Profit = (1600 × 100)/8000 = 20 %

Therefore The profit percent is 20 %

Q72. Answer: (b) 3000

Given:

Rotten apples = 10%

Remaining sold good apples = 85%

good apples = 405

Calculation:

let he had originally be X apples.

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According to the question:
Therefore Rotten apples = (X × 10%) =10X/100
=> Rotten apples = X/10
Again,
sold apples = 85% 0f (X – X/10)
=> [(85/100) × (9X/10)] = 153X/200
Now,
(X/10 + 153X/200 + 405) = X
=> (20X + 153X + 81000)/200 = X
=> 173X + 81000 = 200X
=> 200X – 173X = 81000
=> 27X = 81000
=> X = 81000/27
=> X = 3000
Therefore He originally had 3000 apples.

Q73. Answer: (d) 45 minutes

Given:
Speed = 12 km/hr.
And after every km, A takes rest for 3 minutes.
Formula used:
Time = Distance/Speed
Concept used:
Time taken to cover the last 1 km distance will not include the rest time as the entire distance has been covered.
Calculation:
According to the question:
Time taken to cover 1 km distance = Distance/Speed
=> Time = 1/12 hr. = (1/12 × 60) = 5 min.
Including rest time, time taken to cover 1 km distance = (5 + 3)min = 8 min.
Time taken to cover 5 km distance = (5 × 8) min. = 40 min.
And time taken to cover 6 km distance = (40 +1 × 5) min.
=> 40 + 5 = 45 min.
Therefore Time A will take to cover a distance of 6 km is 45 minutes.

Q74. Answer: (a) 41 cm

Given:
O is the centre of a circle of radius 29 cm, OP perpendicular to AB, OQ perpendicular to CD and AB is parallel CD.
And AB= 40 cm, CD = 42 cm
Concept used:
perpendicular from the centre bisects the chord.
Formula used:
Pythagoras theorem:
(hypotenuse) ^{2}= (perpendicular)^2 + (base)^2
Calculation:
AP = 20 cm, CQ = 21 cm.
according to the figure:
In right angled triangle APO and OQC
Pythagoras theorem;
=> $OA^2 = OP^2 + PA^2$
=> $29^2 = OP^2 + 20^2$
=> $841 = OP^2 + 400$
=> $0P^2 = 441$

=> OP = 21 cm.

Again,

=> OC2 = OQ2 + CQ2

=> 292 = OQ2 + 212

=> 841 = OQ2 + 441

=> 0Q2 = 400

=> OP = 20 cm.

PQ = OP + OQ

=> PQ = 21 + 20 = 41 cm

Therefore length of PQ is 41 cm.

Hint

Chords AB and CD are parallel, P-O-Q is a straight line.

Q75. Answer: (c) 6 : 5

Given:

8 pens and 3 pencils cost is equal to 3 pens and 9 pencils.

Calculation:

let the cost of one pen be Rs. X

Therefore the cost of 8 pens = 8X

and, the cost of 3 pens = 3X

Again, let the cost of one pencil be Rs. Y

Therefore the cost of 3 pencils = 3Y

and, the cost 9 pencils = 9Y

According to question:

8X + 3Y = 3X + 9Y

=> 8X - 3X = 9Y - 3Y

=> 5X = 6Y

=> X/Y = 6/5

=> X : Y = 6 : 5

Therefore the ratio of the cost of one pen to the cost of one pencil is 6 : 5.

Q76. Answer: (a) 1526

The correct answer is 1526.

• In 1526, Babur defeated Ibrahim Lodi at Panipat and captured Delhi and Agra.

• This is called The first battle of Panipat.

• Babur, a Central Asian ruler and a descendant of the Mongol conqueror Genghis Khan invaded India and defeated the Lodi Empire of Northern India.

• Babur was invited by Daulat Khan Lodi to defeat Ibrahim Lodi.

• The battle of Panipat was between the armies of Babur and Ibrahim Lodi.

• Ibrahim Lodi was defeated in the battle and he died in battle along with 15,000 soldiers.

• Babur won the war and his troops occupied both Delhi and Agra, and the Mughal empire was started.

Additional Information

• Important battles:

The first battle of Tarain	**It was fought in 1191 between Muhammad Ghori and Prithviraj Chauhan**
The first battle of Panipat	It was fought between the forces of Babur and Ibrahim Lodhi. The Battle was fought on April 21, 1526.
The second battle of Panipat	It was fought between Hindu Emperor Hemu Chandra Vikramaditya and Akbar. It was fought on 5th November 1556

Q77. Answer: (a) 1908

The correct answer is 1908.

• Kaziranga National Park is located in the Golaghat and Nagaon districts of Assam.

• The popular national park is also a UNESCO World Heritage Site.

• Two-thirds of the world's Great One-horned Rhinoceroses live in the park.

• The national park is also recognized as an Important Bird Area (IBA) making it not only an ideal wildlife sighting destination in India.

• In 1908, Kaziranga was designated a "Reserve Forest".

National Park

• There are 106 National parks in India.

• First national park in India- Jim Corbett National Park (previously known as Hailey National Park).

• No human activity/rights allowed except for the ones permitted by the Chief Wildlife Warden of the State.

• It covered a 1.23 percent geographical area of India.

• Recently in July Assam government decided to upgrade the Dehing Patkai Wildlife Sanctuary into National Park.

Q78. Answer: (c) Alt + G

The correct answer is Alt + G.

Key Points

In Microsoft Office 2016, shortcut keys for various functions are as follows:

To do this	Press
Alt + G	To use themes, colors, and effects, such as page borders, open the Design tab
Ctrl + K	Insert a hyperlink.
Ctrl + A	Select all
Shift + F3	Change the case of letters.

Q79. Answer: (c) CCl2F2

The correct answer is CCl2F2.

• Dichlorodifluoromethane is an inert synthetic gas that is non-reactive, non-toxic, and a gas at room temperature.

• It belongs to a family of compounds called the chlorofluorocarbons that consist of carbon, chlorine, and fluorine atoms in varying arrangements.

• Its chemical formula is CCl2F2.

• It is made by reacting carbon tetrachloride with hydrogen fluoride gas in the presence of a catalyst, usually antimony pentafluoride.

• Dichlorodifluoromethane is used as a refrigerant gas in refrigerators and air conditioners.

• It is also used in aerosol sprays, in plastics, and as an aid in detecting leaks.

Compound	Chemical formula
Chlorodifluoromethane	CHClF2
Tetrafluoroethane	CH2FCF3
Dichloro-trifluoroethane	C2HCl2F3

Q80. Answer: (b) 2006

The correct answer is 2006.

Key Points

• The Ramnath Goenka Excellence in Journalism Awards (RNG Awards) is one of the most prestigious awards in India in the field of journalism.

• Instituted in 2006, the Awards honour journalists from print, broadcast, and digital media recognizing their strength of character and integrity while covering news in adverse circumstances.

Q81. Answer: (b) Mizoram

The correct answer is Mizoram.

• The Chapchar Kut is a festival of Mizoram, India.

• It is the biggest and most important festival in Mizoram.

• Chapchar Kut literally means - a festival held during the period when the bamboos and trees that have been cut down are being awaited to dry to be burnt for jhumming.

• It is celebrated every year in the month of March after the completion of the Jhum cultivation.

• The festival has been estimated to have started in 1450–1700 A.D. in a village called Suaipui.

• The celebration was revived in the year 1962.

• Jhum cultivation is the process of growing crops by first clearing the land of trees and vegetation and burning them thereafter.

• The current Chief Minister of Mizoram is Mr. Lalduhoma and the current Governor of Mizoram is Mr. Hari Babu Kambhampati.

Q82. Answer: (a) SAANS

The correct answer is SAANS.

• Union Ministry for Health and Family Welfare (MoHFW) launched SAANS: 'Social Awareness and Action to Neutralise Pneumonia Successfully' campaign

• It is to reduce child mortality due to pneumonia.

• Union Health Minister Harsh Vardhan launched the campaign while inaugurating the 6th National Summit on Good, Replicable Practices and Innovations.

• Objectives:

• To reduce child mortality due to pneumonia.

• To mobilize people to protect children from pneumonia.

• To train health personnel and other stakeholders to provide prioritized treatment to control the disease.

Additional Information

MUSKAN	**Operation Muskaan was launched in the state of Andhra Pradesh. The operation aims at tracing missing children, prevent child labor and bonded child labor, and rescue children engaged as a domestic helper.**
BACHPAN	BACPAN is a welfare scheme to provide financial assistance to the children who do not have both the Parents/Guardian and do not have any financial support for the livelihood/Education
JEEVAN JYOT	Jeevan Jyot is a welfare scheme to provide financial support to NGOs to run a daycare center for Persons with Physical and Mental Disabilities.

Q83. Answer: (a) 8611 m

The correct answer is 8611 m.

• K2 or Mount Godwin Austen is the second-highest mountain in the world, after Mount Everest above sea level.

• The peak is 8611 m high, is in the Karakoram Range of northern Jammu and Kashmir, near the border of Pakistan and China.

• It is the highest point of the Karakoram mountain range and the highest point in both Pakistan and Xinjiang.

• K2 is also referred to as Mount Godwin-Austen in honour of Henry Godwin-Austen, an early explorer of the region.

Q84. Answer: (d) Bajrang Punia

The correct answer is Bajrang Punia.

• World No. 1 Bajrang Punia won India's first gold medal at the Asian Wrestling Championships 2019 in China.

• Bajrang was fighting in the 65kg category and beat Sayatbek Okassov of Kazakhstan 12-7 to bag the top honors.

• Punia, who also won a silver medal at the World Championships last year (2018).

• Praveen Rana won silver in this.

Q85. Answer: (a) Fourth

The correct answer is Fourth.

• India ranked fourth in the 14th Asian Championship Shooting.

• It was organized by the Asian shooting federation which was held in Doha, Qatar.

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• China secured the top spot in the medal tally with 45 medals.

• India held the fourth position with 26 medals.

Additional Information

• Winners:

• Indian teen shooter Saurabh Chaudhary won the silver medal in the men's 10m air pistol event.

• The gold was won by North Korea's Kim Song Guk.

• In the women's 10 m air pistol event, Manu Bhaker of India won the gold medal.

• Sharvan Kumar and Verma won bronze.

Q86. Answer: (a) 76^(th)

The correct answer is 76th.

• India has been ranked very low at 76th place out of 82 countries on a new Social Mobility Index compiled by the World Economic Forum.

• Denmark has topped the chart.

• The inaugural Social Mobility Report showed that across the Global Social Mobility Index, only a handful of nations across the 82 countries covered have put in place the right conditions to foster social mobility.

World Economic Forum

• The World Economic Forum is the International Organization for Public-Private Cooperation.

• It was established in 1971 and is headquartered in Geneva, Switzerland. It is independent, impartial, and not tied to any special interests.

• The Forum strives in all its efforts to demonstrate entrepreneurship in the global public interest while upholding the highest standards of governance.

Q87. Answer: (c) Yashasvi Jaiswal

The correct answer is Yashasvi Jaiswal.

• Yashasvi Jaiswal became the youngest in the world to score a double hundred in 50-overs cricket including List A and ODIs.

• He broke the record by almost 3 years in the Vijay Hazare Trophy match against Jharkhand.

• His scintillating performance helped Mumbai beat Jharkhand in Vijay Hazare Trophy.

Vijay Hazare trophy

• The Vijay Hazare Trophy, also known as the Ranji One-Day Trophy.

• It was started in 2002–03 as a limited-overs cricket domestic competition involving state teams from the Ranji Trophy plates.

• It is named after the famous Indian cricketer Vijay Hazare.

Q88. Answer: (d) 3 : 1

The correct answer is 3:1.

• Aqua regia is a yellow-orange or sometimes red color fuming liquid.

• Aqua regia is made by combining one part concentrated nitric acid (HNO3) to three parts concentrated hydrochloric acid (HCl).

• It must be made fresh because it will decompose quickly.

Additional Information

• Uses:

• It is used for the manufacture of chloroauric acid.

• It can dissolve noble metals such as gold and platinum but not all metals.

• It is used as an electrolyte in the Wohlwill process to refine gold of the highest quality.

Q89. Answer: (a) New Delhi

The correct answer is New Delhi.

• India Energy Forum organized the 11th Nuclear Energy Conclave (NEC) in New Delhi.

• Theme: “Economics of Nuclear Power-Innovation towards safer and cost-effective technologies”

• It was inaugurated by the Union Minister of State for the development of the North Eastern Region, Minister of State Atomic Energy and Space, Prime Minister’s Office and Personnel, public grievances, and pensions.

Additional Information

Highlights of the event:

• A nuclear power plant is to be constructed in Gorakhpur, Haryana

• The DAE (Department of Atomic Energy) is working along with TATA Memorial Centre towards the implementation of flagship programs of the Government.

• The priority is given to shifting towards cashless transactions.

• It was informed that light water reactors are those power reactors that are moderated and cooled with ordinary water.

• There are two basic types of reactors – Boiling water reactor and pressurized water reactor.

• India can access the imported uranium that will help us to increase its nuclear program size.

Q90. Answer: (b) Article 15

The correct answer is Article 15.

• Article 15 prohibits discrimination by the state against any citizen on grounds 'only' of caste, religion, sex, race, and place of birth.

• Fundamental rights are provided to every citizen of the country without any discrimination.

• The word "discrimination" refers to make adverse distinctions with regard to or to distinguish un-favorable from others while the term 'only' means that discrimination can be done on the basis of other grounds.

Additional Information

Article 39	**It Secures citizens: - Equitable distribution of material resources of the community for the common good. - Prevention of concentration of wealth and means of production. - Equal pay for equal work for men and women. - Opportunities for the healthy development of children. - Right to adequate means of livelihood for all citizens.**
Article 23	It deals with the Prohibition of trafficking in human beings and forced labor.
Article 45	It provides early childhood care and education for all children until they complete the age of six-year.

Q91. Answer: (d) BR Ambedkar

The correct answer is BR Ambedkar.

• Kanshi Ram is considered the second biggest name of the Dalit movement in India’s political landscape, after Dr. Babasaheb Ambedkar.

• Fondly known as Bahujan Nayak or Saheb, Kanshi Ram launched the Bahujan Samaj Party in 1984, which went on to form the government in India’s largest state, Uttar Pradesh.

• He founded the Bahujan Samaj Party on the birth anniversary of Dr. BR Ambedkar.

Dr. BR Ambedkar

• Dr. B R Ambedkar is known as the ‘Father of Indian Constitution'.

• He was born on 14th April 1891 in an untouchable family of Mhow (now in Madhya Pradesh) and he died on 6th December 1956 in Delhi.

• He was the Chairman of the Drafting Committee of the Constituent Assembly.

• His birth anniversary is celebrated on 14 April as Ambedkar Jayanti or Bhim Jayanti to honour his countless contributions in the making of present-day Independent India.

• He was credited to be the force behind the Dalit Buddhist movement in India.

• Dr. Ambedkar is the only Indian whose statue is attached to Karl Marx in the London Museum.

Q92. Answer: (d) 185

The correct answer is 185.

• The International Finance Corporation (IFC) is an international financial institution that offers investment, advisory, and asset management services to encourage private sector development in developing countries.

• 185 countries were members of Internation Finance Corporation till April 2019.

• IFC is a member of the World Bank Group and is headquartered in Washington, D.C., United States.

• It was established in 1956 as the private sector arm of the World Bank Group to advance economic development by investing in strictly for-profit and commercial projects that purport to reduce poverty and promote development.

• The IFC is owned and governed by its member countries, but has its own executive leadership and staff that conduct its normal business operations.

• It is a corporation whose shareholders are member governments that provide paid-in capital and which have the right to vote on its matters.

Q93. Answer: (b) Vasdev Mohi

The correct answer is Vasdev Mohi.

• The famous Sindhi Writer and poet Vasdev Mohi has been chosen for the prestigious 29th Saraswati Samman Award.

• Vasdev Mohi is being conferred with this award for his short story collection named 'Cheque Book'.

• Mr. Mohi has authored 25 books of poetry, stories, and translations.

• He has also received the Sahitya Akademi Award.

• 'Cheque Book' talks about the agonies and sufferings of marginalized sections of society.

Saraswati Samman

• Saraswati Samman a literary recognition given annually by the KK Birla Foundation.

• It carries a cash award of Rs.15 lakh rupees, a citation, and a plaque.

• The award is annually given to an outstanding work of an Indian citizen published during the last 10 years in any of the languages mentioned in Schedule 8 of the constitution.

Q94. Answer: (d) Golgi apparatus

The correct answer is Golgi apparatus.

Key Points

• Golgi Apparatus is responsible for storage, modification, and packing of products in vesicles.

• The Golgi apparatus is also known as the Golgi complex.

• Golgi Complex was discovered by Camillo Golgi.

• It is composed of many sac-like structures that are stacked one above another.

• Function:

• It packages proteins into membrane-bound vesicles inside the cell before the vesicles are sent to their destination.

• It is also involved in the storage and modification of contents in the vesicles.

Additional Information

	Basic	Function
Plastids	Plastids are found in plant cells. They are of two types, chromoplast, and leucoplast. Colorful plastids are called chromoplast and colorless plastids are called leucoplast.	Leucoplasts are responsible for storing food; such as carbohydrates, protein, and lipid. Chromoplasts impart various colors to the plant parts.
Mitochondria	Mitochondria is a capsule-like structure. It is a double membrane structure. Its inner membrane is projected into numerous finger-like structures; called cristae.	Cellular respiration; due to this, mitochondria are also known as the ‘powerhouse of the cell’.
Endoplasmic reticulum	The endoplasmic reticulum is a mesh-like structure that is composed of numerous tubes. It extends from the plasma membrane to the nuclear membrane.	It serves as the transport channel in the cell. Substances are transported from the cell membrane to the cytoplasm and to the nucleus and vice-versa.

Q95. Answer: (c) 2013

The correct answer is 2013.

• On October 22, 2013, the government of India approved the release of a stamp to mark the 50th anniversary of the dam.

• It was the only dam that could produce 1500 MW power during that time.

• India Post earlier issued a commemorative postage stamp on Bhakra Dam on 15th Dec 1988 on its silver jubilee.

• Bhakra Dam is the first structure in India that will have two commemorative postal stamps in its name.

Bhakra-Nangal Dam

• The Bhakra-Nangal Dam is the second tallest dam in Asia.

• It is located on the border of Punjab and Himachal Pradesh.

• It is the highest straight gravity dam in India with a height of about 207.26 meters and it runs across 168.35 km.

• Rajasthan, Haryana, and Punjab are getting water for irrigation from the Bhakra Dam.

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Q96. Answer: (a) Hybrid computers

The correct answer is Hybrid Computers.

Key Points

• Hybrid computers are used to control air traffic and radar of national defense.

• Hybrid computers are computers that exhibit features of analog computers and digital computers.

• The main objective is to perform very complicated calculations.

• Hybrid computers can be used in large-scale organizations to solve logical and technical calculations as well as offer great processing of differential equations.

Additional Information

Analog computers	**Analog computer is a type of computer that uses the continuously changeable aspects of physical phenomena such as electrical, mechanical, or hydraulic quantities to model the problem being solved.**
Digital computers	A Digital computer can be considered as a digital system that performs various computational tasks. The first electronic digital computer was developed in the late 1940s.
Personal computers	A personal computer is a general-purpose computer whose size, capabilities and original sale price make it useful for individuals, and is intended to be operated directly by an end-user with no intervening computer operator

Q97. Answer: (a) HH Cole

The correct answer is HH Cole.

• HH Cole was appointed as the Curator of Ancient Monuments in 1880.

• Fergusson College was founded by the Deccan Education society in 1885 at Pune.

• It was named after Sir James Fergusson, the Governor of Bombay.

• Archaeological Museum Sanchi was established on the hilltop, in 1919, by Sir John Marshall.

• Sir John Hubert Marshall was the Director-General of the Archaeological Survey of India from 1902 to 1928.

• He oversaw the excavations of Harappa and Mohenjodaro, two of the main cities that comprise the Indus Valley Civilization.

Q98. Answer: (b) Teak tree

The correct answer is the Teak tree.

Key Points

• Teak is the most dominant species of tropical deciduous forests.

• Tropical deciduous forests are also known as "Monsoon" forests.

• They spread over regions that receive rainfall between 70-200 cm.

• Trees of this forest type shed their leaves for about six to eight weeks in dry summers.

• These forests are found in the north-eastern states along the foothills of the Himalayas, eastern slopes of the Western Ghats, and Orissa.

• Teak, sal, shisham, hurra, mahua, amla, semul, Kusum, and sandalwood, etc. are the main species of these forests.

Q99. Answer: (c) 3,500 km

The correct answer is 3,500 km.

• India successfully test-fired nuclear-capable, K-4 ballistic missile off the coast of Andhra Pradesh on January 19, 2020.

• It had a strike range of 3500km.

• The missile was developed by the Defence Research and Development Organisation (DRDO)

• The K-4 ballistic missile was launched from an underwater platform in the sea.

• Significance: The missile launch is aimed at strengthening India’s capabilities to hit enemy targets from submarines. With this, India has moved a step further in inducting the ballistic missile on the INS Arihant class of nuclear submarines.

Q100. Answer: (d) 30

The correct answer is 30.

• A World Heritage Site is a place that is listed by UNESCO for its special cultural or physical significance.

• India at present has 40 world heritage sites that include 32 Cultural properties, 7 Natural properties, and 1 mixed site.

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• India's nomination of Dholavira, the Harappan City in the Rann of Kutch, Gujarat has been inscribed on UNESCO's World Heritage list. India submitted the nomination dossier for Dholavira.

• A Harappan city to the World Heritage Centre in January 2020. The site was on the UNESCO's tentative list since 2014. Dholavira: a Harappan city, is one of the very few well preserved urban settlements in South Asia dating from the 3rd to mid-2nd millennium BCE.

• The Union Minister of Culture, Tourism, and Development of North Eastern Region (DoNER) Sri G Kishan Reddy shared this news on Twitter shortly after the announcement.

• This follows a few days after the Rudreswara Temple, (also known as the Ramappa Temple) at Palampet, Mulugu district, Telangana State becoming the 39th World Heritage Centre in India.

• The list of World Heritage Sites is maintained by the international 'World Heritage Programme', administered by the UNESCO World Heritage Committee.

• Currently, there are 1092 World Heritage sites in the world.

• The United Nations Educational, Scientific, and Cultural Organization (UNESCO) seeks to encourage the identification, protection, and preservation of cultural and natural heritage around the world considered to be of outstanding value to humanity.

UNESCO (United Nations Educational, Scientific and Cultural Organization)

• It is located in Paris, France.

• It was founded in 1945 to develop the "intellectual and moral solidarity of mankind" as a means of building lasting peace

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