SSC CHSL Previous Paper 5 (Held On: 3 Jul 2019 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2019 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. In the sentence identify the segment which contains the grammatical error.

The launch of the small electric car will depend to the willingness of buyers to pay more for it.

(a) The launch of the
(b) of buyers to pay more for it
(c) depend to the willingness
(d) small electric car will

Q2. Select the most appropriate meaning of the given idiom.

The crux of the matter

(a) the unknown point
(b) the lesser issue
(c) the interesting thing
(d) the critical point

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

Four corners of the earth

(a) from morning till night
(b) from beginning to end
(c) from all parts of the world
(d) from the very beginning

Q4. Select the correct passive form of the given sentence.

The merchant took out the dead parrot from the cage.

(a) The dead parrot is taken out from the cage by the merchant.
(b) The dead parrot was taking out from the cage by the merchant.
(c) The dead parrot was taken out from the cage by the merchant.
(d) The dead parrot took out from the cage by the merchant.

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

OPAQUE

(a) hazy
(b) clear
(c) frosty
(d) dull

Q6. Select the correct indirect form of the given sentence.

Bhola said to his mother, "Why is this charcoal so black?"

(a) Bhola told his mother why that charcoal was so black.
(b) Bhola asked his mother why the charcoal is so black.

(c) Bhola asked his mother why that charcoal was so black.
(d) Bhola asked his mother why was that charcoal so black.

Q7. 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.

She has been writing this novel for a year but she did not finish it yet.

(a) No improvement
(b) has not finished it
(c) has not finish it
(d) had not finished it

Q8. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. But after a while they all began to blur in our memories.

B. When we arrived in Bangkok, we took a tour of the city's famous Buddhist temples.

C. However there was one temple, the Temple of Golden Buddha, which left an indelible impression in our hearts and minds.

D. We visited numerous temples that day.

(a) DCBA
(b) BACD
(c) ADBC
(d) BDAC

Q9. Select the most appropriate synonym of the given word.

ENTHRALL

(a) repel
(b) mesmerize
(c) disgust
(d) free

Q10. Select the most appropriate antonym of the given word.

DENOUNCE

(a) criticize
(b) blame
(c) vilify
(d) applaud

Q11. Directions: In this section each of the following sentences has a blank space and each sentence is followed by four options. Select the most appropriate option to fill the blank space.

She was _____ to have worked with some renowned scientists of the world.

(a) favourable
(b) charmed
(c) fortunate
(d) affluent

Q12. 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.

They dissuaded me of visiting the War Memorial but I really wanted to see it.

(a) from visiting
(b) of visit
(c) No improvement
(d) to visiting

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

Something that cannot be heard

(a) inevitable
(b) inaudible
(c) illegible
(d) incomprehensible

Q14. Select the wrongly spelt word

(a) behaive
(b) board
(c) better
(d) bliss

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

Adali Khal is such a _____ village in Garhwal that hardly any tourist can reach there.

(a) lost
(b) remote
(c) lonesome
(d) dreaming

Q16. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. There was an old apple tree in the centre of a village.
B. The adults also sat in the shade and discussed important things.
C. They remembered that they too had played around the tree when they were young.
D. Children loved to play around the tree and pick delicious apples.

(a) ADBC
(b) DCAB
(c) ACBD
(d) CBAD

Q17. Select the word which means the same as the group of words given

a rabbit's dwelling.

(a) burrow
(b) den
(c) lair
(d) sty

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.

China is the largest producer of pork, but it (1) ____ a big problem at the moment. There is an epidemic (2) __ is killing its pigs. The virus was first (3) __ in August last year, but one million pigs have died by now. It is a (4) __ virus and when a pig catches it, it dies. China thinks that one third of (5) ____ pigs are going to die by the end of this year.

Q18. Select the most appropriate option for blank No. 1.

(a) faced
(b) is facing
(c) face
(d) was facing

Q19. Select the most appropriate option for blank No. 2.

(a) who
(b) which
(c) what

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(d) whom

Q20. Select the most appropriate option for blank No. 3.

(a) discovered
(b) invented
(c) learned
(d) searched

Q21. Select the most appropriate option for blank No. 4.

(a) bloody
(b) deadly
(c) violent
(d) cruel

Q22. Select the most appropriate option for blank No. 5.

(a) its
(b) his
(c) hers
(d) theirs

Q23. Select the wrongly spelt word.

(a) inefficent
(b) inequality
(c) independence
(d) influence

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

The promoters of Med Hospitals has agreed to sell their business to Pal Hospitals.

(a) to Pal Hospitals
(b) Med Hospitals has agreed
(c) to sell their business
(d) The promoters of

Q25. Select the most appropriate synonym of the given word.

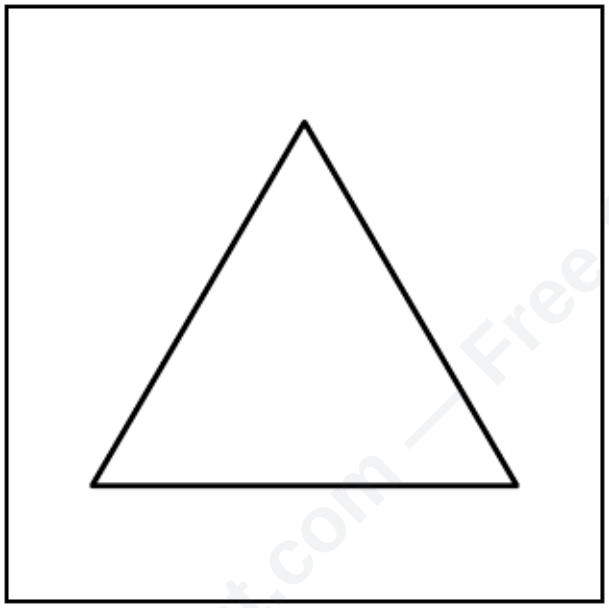
FORTIFY

(a) loosen
(b) neglect
(c) harm
(d) secure

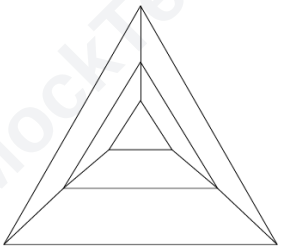
GENERAL INTELLIGENCE

Q26. Select the option in which the given figure is embedded.

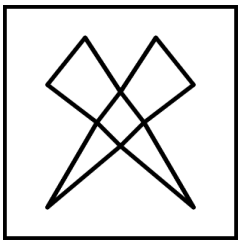
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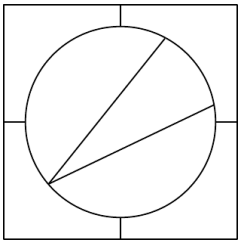
(a)



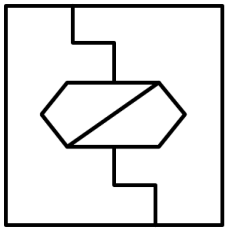
(b)



(c)



(d)



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Q27. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

(a) 4842
(b) 5472
(c) 2421
(d) 7261

Q28. Arrange the following words in the order as they would appear in English dictionary.

1. Denote
2. Destiny
3. Diagonal
4. Demand
5. Density

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

Q29. In a code language, LOGITECH is written as CFCEBAYD. How will INFORMATION be written as in that language?

(a) EBEFDIWBEFE
(b) EEBFIDWBEFE
(c) EBEDIFBWFEE
(d) EEBFIDBWFEE

Q30. Three of the following four letter-clusters are alike in a certain way and one is different.
Pick the odd one out.

(a) EZV
(b) OKL
(c) UPF
(d) AVZ

Q31. Select the set in which the numbers are related in the same way as are the numbers of the following set.
(11, 13, 288)

(a) (19, 23, 828)
(b) (3, 5, 31)
(c) (7, 11, 162)
(d) (13, 17, 415)

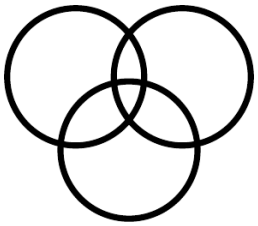
Q32. Which number will replace the question mark (?) in the following series?
3, 14, 29, 38, 51, 58, 69, ?

(a) 73
(b) 74
(c) 47
(d) 37

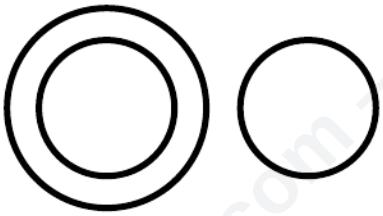
Q33. Select the venn diagram that best illustrates the relationship between the following classes.
Lecturer, Singers, Men

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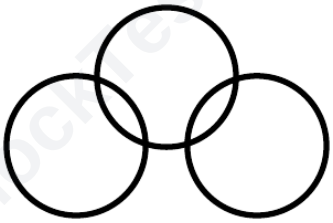
(a)



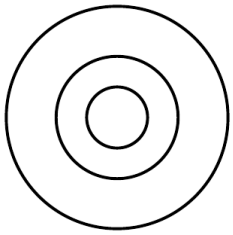
(b)



(c)



(d)



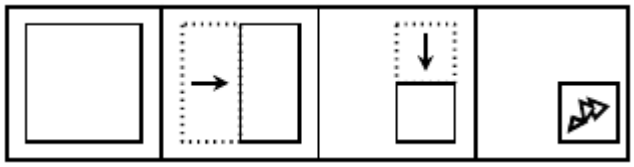
Q34. Twenty teams take part in a football tournament. Each team has to play every other team.
How many games would be played in the tournament?

(a) 170
(b) 190
(c) 180
(d) 195

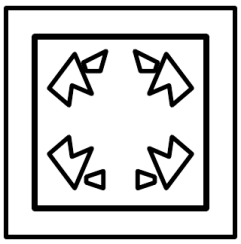
Q35. Which two signs should be interchanged in the following equation to make it correct?
28 - 42 ÷ 2 + 276 × 23 = - 44

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

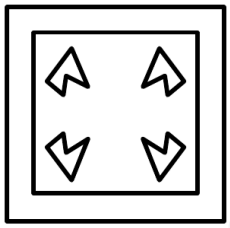
Q36. A paper is folded and cut as shown in the following figures, How will it appear when unfolded?



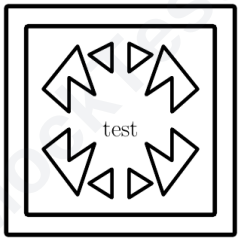
(a)



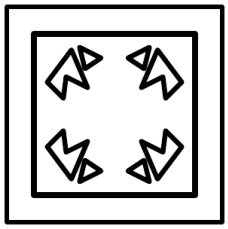
(b)



(c)



(d)



Q37. 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.

MARK : FHMP :: LOAN : _____

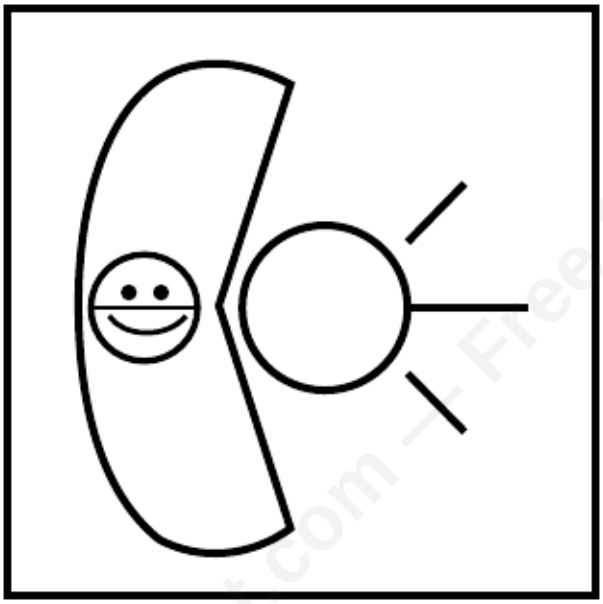
(a) SVVE
(b) SVEV
(c) EVSV
(d) EVVS

Q38. 'Painter' is related to 'Paintbrush' in the same way as 'Farmer' is related to '_____'.

(a) Crops
(b) Colour
(c) Harvest
(d) Plough

Q39. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

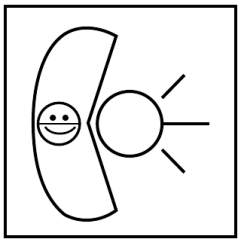
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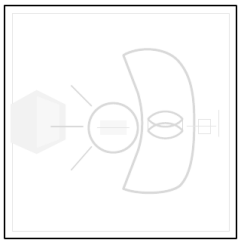
(a)



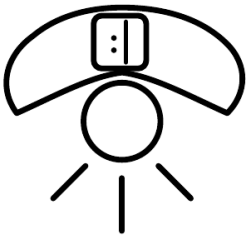
(b)



(c)



(d)



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Q40. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

a_b_aad_ca_dbc_adb_a

(a) dbcaca
(b) dcabac
(c) dcabca
(d) dcbaac

Q41. FINGER is coded as 15232112239 and MARKET is coded as 14192916252, then how will MILTON be coded as?

(a) 2222213355
(b) 21223239525
(c) 22213235295
(d) 22122353295

Q42. There are two married couples in a family. % has two children. A is wife of @ who is brother of #. F is daughter of %. U is sister of S, who is son of @. T is son of #, who is a male.

How is A is related to %?

(a) Sister
(b) Brother
(c) Brother in law
(d) Sister in law

Q43. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

(a) Parasailing
(b) Swimming
(c) Driving
(d) Surfing

Q44. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(11, 13, 17)

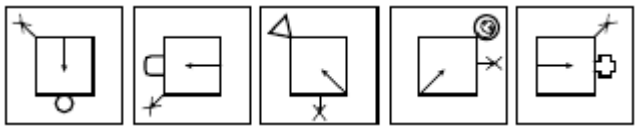
(a) (5, 7, 9)
(b) (31, 37, 43)
(c) (29, 31, 41)
(d) (19, 23, 29)

Q45. Select the option that is related to the third number in the same way as the second number is related to the first number.

68 : 100 :: 45 : _____

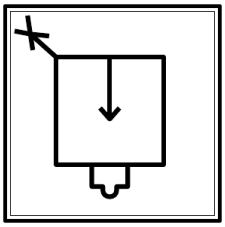
(a) 41
(b) 14
(c) 141
(d) 114

Q46. Select the figure that will come next in the following figure series.

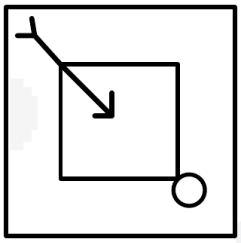


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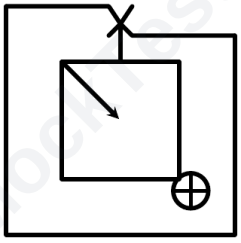
(a)



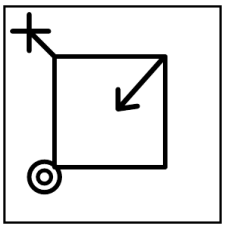
(b)



(c)



(d)



Q47. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Year : June

(a) Week : Thursday

(b) April : Month

(c) Week : Calendar

(d) Year : Century

Q48. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some tractors are boats.

All cups are boats.

All jars are tractors.

Conclusions:

I. Some tractors are cups.

II. No jar is boat.

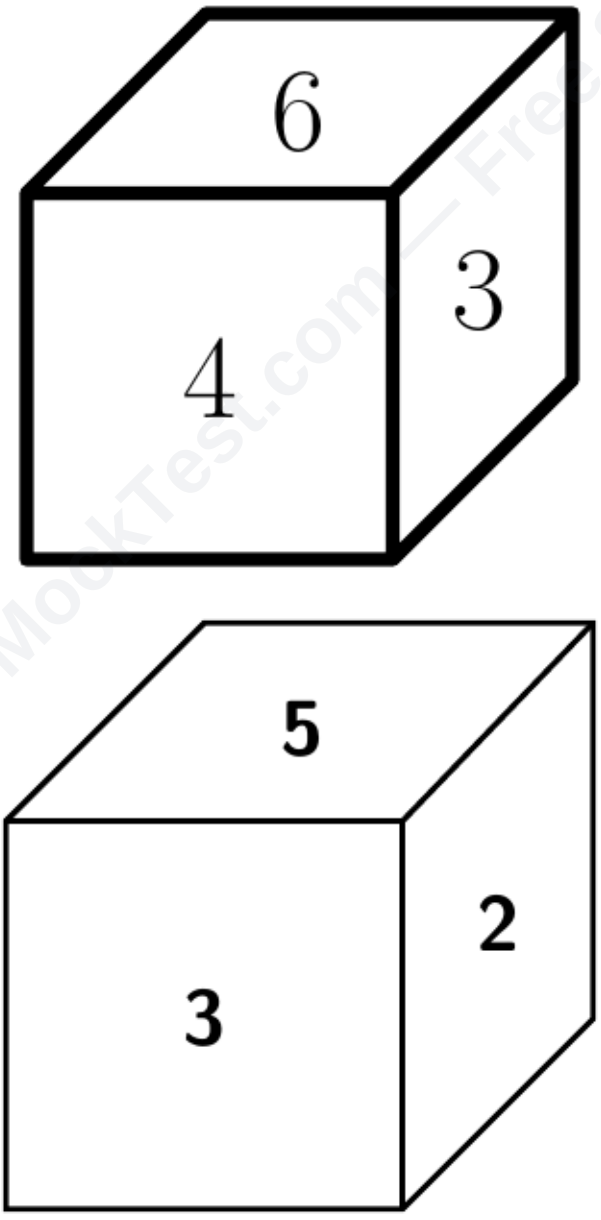
III. Some cups are jars.

(a) None of the conclusions follows.

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(b) Only conclusions I and II follow.
(c) Only conclusions II and III follow.
(d) Only conclusions I and III follow.

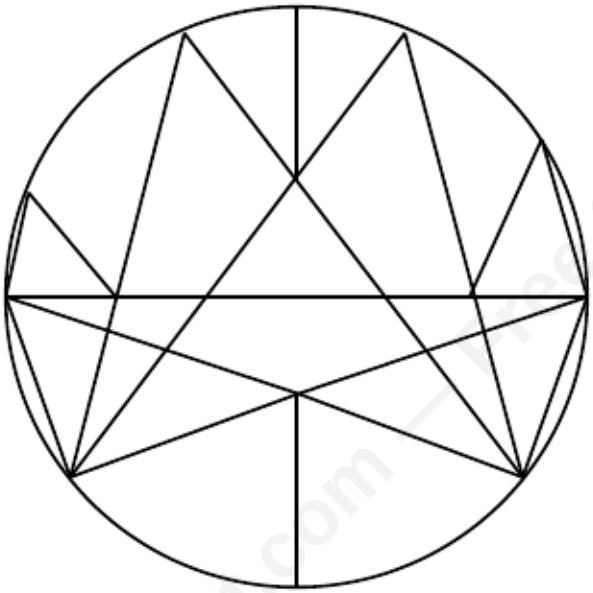
Q49. Two different position of the same dice are shown. Which number will be at the top if 2 is at the bottom?



(a) 1
(b) 4
(c) 6
(d) 3

Q50. How many triangles are present in the following figure?

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(a) 26
(b) 30
(c) 28
(d) 24

QUANTITATIVE APTITUDE

Q51. If an eleven-digit number 5y5888406x6 is divisible by 72, then what is the value of (9x – 2y), for the least value of x?

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

Q52. PQRS is a cyclic quadrilateral. If angle P is four times angle R and angle S is three angle Q, then the sum of angle Q and angle R is:

(a) 73°
(b) 77°
(c) 81°
(d) 86°

Q53. In ΔABC, BD ⊥ AC. E is a point on BC such that angle BEA = x°. If angle EAC = 38° and angle EBD = 40°, then the value of x is:

(a) 78°
(b) 68°
(c) 72°
(d) 88°

Q54. An article is marked at a price which is 1.2 times its cost price. After allowing a certain discount on the market price, the profit reduces to 10%. The discount percent is:

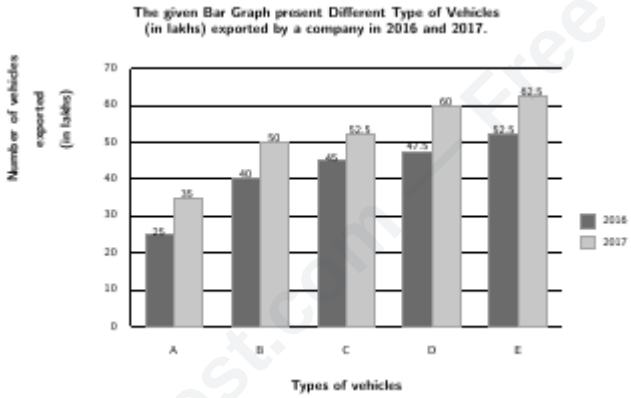
(a) 10
(b) 8(1/3)
(c) 8(2/3)
(d) 9

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Q55. If $(\sin\theta - \text{cosec}\,\theta)(\cos\theta - \sec\theta)/(\tan^2\theta - \sin^2\theta) = r^3$, then r = ?

(a) cosec θ sec θ
(b) cot θ
(c) tan θ
(d) sin θ cos θ

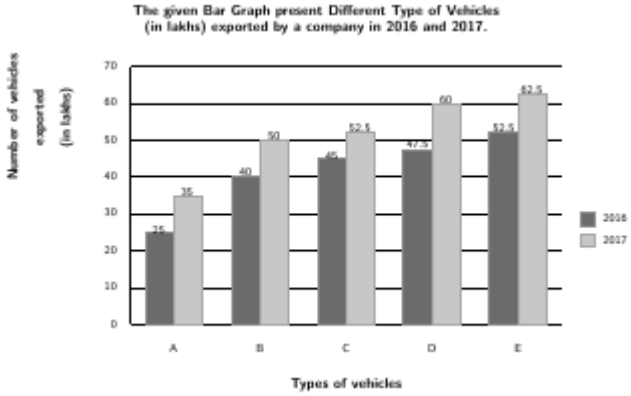
Q56. The given bar graph presents a different type of vehicles (in lakhs) exported by a company in 2016 to 2017?



The export of which type of vehicle in 2017 is approximately 16.66% more than the export of same type of vehicle in 2016?

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

Q57. The given Bar Graph presents Different Type of Vehicles (in lakhs) exported by a company in 2016 to 2017?



The average number of all types of vehicles exported by the company in 2016 is what percent less than the number of type B exported in 2017?

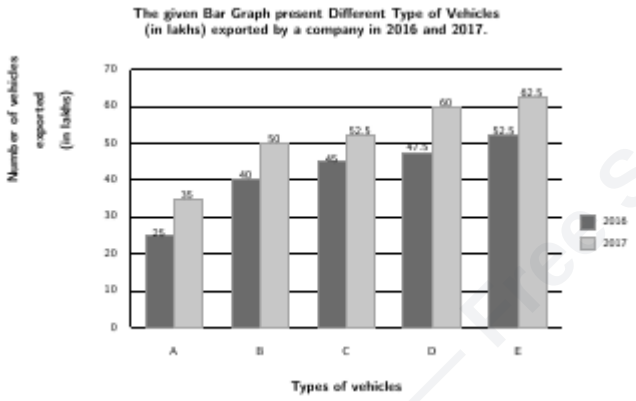
(a) 12
(b) 16
(c) 15
(d) 18

Q58. If $24\sqrt{3}x^3 + 5\sqrt{5}y^3 = (2\sqrt{3}x + \sqrt{5}y) \times (Ax^2 + Bxy + Cy^2)$ then what is the value of $(A^2 - B^2 + C^2)$?

(a) 109
(b) 108
(c) 139
(d) 128

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Q59. The given bar graph presents a different type of vehicles (in lakhs) exported by a company in 2016 to 2017?



The total number of vehicles of type C and E exported by the company in 2017 is what percentage (correct to one decimal place) more than the total number of vehicles of type A, B and C exported in 2016?

(a) 4.1
(b) 4.5
(c) 5.4
(d) 5.2

Q60. Sudha spends 80% of her income. When her income is increased by 30%, she increases her expenditure by 25%. Her saving is:

(a) Increased by 5%
(b) Increased by 50%
(c) Decreased by 30%
(d) Decreased by 5%

Q61. A sum of Rs. 10000 amounts to Rs. 11664 in 2 years, at a certain rate percent per annum, when the interest is compounded annually. What will be the simple interest on the same sum for 27/5 years at the same rate?

(a) Rs. 4040
(b) Rs. 3840
(c) Rs. 4320
(d) Rs. 4160

Q62. Pipes A and B can fill a tank in 8 hours and 12 hours, respectively whereas pipe C can empty the full tank in 6 hours. A and B are opened for 3 hours and then closed and C is opened instantly. C will empty the tank in:

(a) 4(1/2) hours
(b) 3(3/4) hours
(c) 4(1/4) hours
(d) 3(1/2) hours

Q63. A vendor bought 40 dozen of fruits for Rs. 2400. Out of these, 30 fruits were rotten and thrown away. At what rate per dozen should he sell the remaining fruits to make a profit of 25%?

(a) Rs. 72
(b) Rs. 80
(c) Rs. 84
(d) Rs. 90

Q64. If $x + y + z = 2$, $xy + yz + zx = -11$, then the value of $x^3 + y^3 + z^3 – 3xyz$ is:

(a) 152
(b) 70
(c) 74
(d) 148

Q65. In ΔABC, D and E are the points on sides AC and AB, respectively such that angle ADE = angle B = If AE = 8 cm, CD = 3 cm, DE = 6 cm and BC = 9 cm, then AD is equal to:

(a) 8 cm
(b) 6 cm
(c) 9 cm
(d) 7.5 cm

Q66. The average weight of the students in a group was 75.4 kg. Later on, four students having weights 72.9 kg, 73.8 kg, 79.5 kg and 87.4 kg joined the group. As a result, the average weight of all the students in the group increased by 0.24 kg. What was the number of students in the group, initially?

(a) 36
(b) 50
(c) 46
(d) 48

Q67. The simplified value of 3 × 2 ÷ 3 of 2 × 3 ÷ (5 + 5 × 5 ÷ 5 of 5 – 5 ÷ 10 of 1/5) is:

(a) 5/7
(b) 6/7
(c) 30/59
(d) 2/3

Q68. If x is real, and x^4 – 5x² – 1 = 0, then the value of x^6 – 3x²+ 3/x²– 1/x^6 + 1 is:

(a) 96
(b) 116
(c) 110
(d) 126

Q69. O is the center of circle to which PAX and PBY are tangents from a point P at points A and B. Q is a point on the circle, such that angle QAX = 49° and angle QBY = 62°. What is the measure of angle AQB?

(a) 63°
(b) 69°
(c) 67°
(d) 59°

Q70. A circle circumscribes a rectangle whose sides are in the ratio 4 : 3. If the perimeter of the rectangle is 56 cm, then what is the area (in cm²) of the circle?

(a) 96 π
(b) 100 π
(c) 70 π
(d) 90 π

Q71. If cot θ = √6, then the value of fraccosec²θ + sec²θ cosec²θ - sec²θ

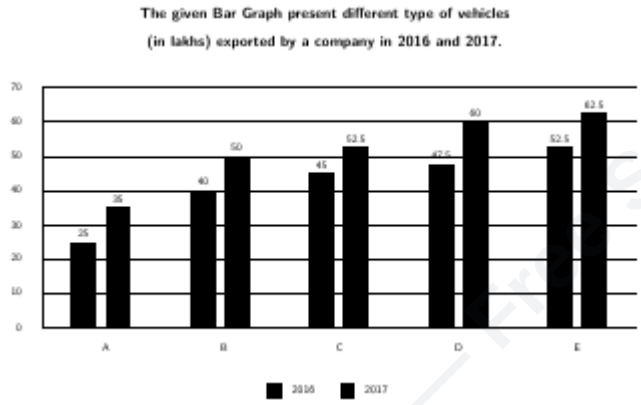
(a) 48/35
(b) 7/5
(c) 43/36
(d) 49/36

Q72. If sin θ.sec²θ = 2/3, 0° angle θ angle 90°, then the value of (tan²θ + cos²θ) is:

(a) 11/12
(b) 7/6
(c) 13/12
(d) 5/4

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Q73. The given bar graph presents a different type of vehicles (in lakhs) exported by a company in 2016 to 2017.



What is the ratio of the total number of vehicles of type D and E exported by the company in 2016 to that of vehicles of type C and E exported in 2017?

(a) 20 : 23
(b) 8 : 9
(c) 10 : 11
(d) 5 : 6

Q74. Eight years ago, the ratio of ages of A and B was 9 : 10. The ratio of their ages 4 years from now will be 12 : 13. What is the age (in years) of C now, if his age is 6 years more than that of A?

(a) 42
(b) 50
(c) 48
(d) 56

Q75. A 360 m long train running at a uniform speed, crosses a platform in 55 seconds and a man standing on the platform in 24 seconds. What is the length (in meter) of the platform?

(a) 410
(b) 445
(c) 480
(d) 465

GENERAL AWARENESS

Q76. Which of the following is NOT one of the tools of Robotics Process Automation?

(a) Blue Prism
(b) Ui Path
(c) Automation Anywhere
(d) Power Center

Q77. In the new 2019 Narendra Modi cabinet, which portfolio is assigned to Smriti Irani?

(a) Ministry of Women and Child Development
(b) Ministry of External Affairs
(c) Ministry of Human Resource Development
(d) Ministry of Law and Justice

Q78. The quote “Bombs and pistols do not make a revolution. The sword of revolution is sharpened on the whetting-stone of ideas” belongs to which of the following freedom fighters?

(a) Lala Lajpat Rai
(b) Bal Gangadhar Tilak
(c) Subhash Chandra Bose
(d) Bhagat Singh

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Q79. The terms systolic and diastolic are used in the context of_____

(a) Measuring blood pressure
(b) Detecting problems in eye sight
(c) Finding blood vessels
(d) Counting blood platelets

Q80. In which year was the Central Board of Revenue Act in India promulgated?

(a) 1983
(b) 1973
(c) 1963
(d) 1953

Q81. Reliance Infrastructure has bagged a Rs. 648 crore contract from the Airport Authority of India to build a new airport at which of the following locations of Gujarat?

(a) Veraval
(b) Ambaji
(c) Keshod
(d) Hirasar

Q82. In which year the Indian cricket team won the ODI World Cup for men for the second time?

(a) 2011
(b) 2003
(c) 2015
(d) 2007

Q83. Which popular Indian band of the 90s released their first album 'Boondein' with Mohit Chauhan as the lead?

(a) Lost Stories
(b) Silk Route
(c) Pentagram
(d) 13AD

Q84. Pandit Shivkumar Sharma, who is a recipient of Padma Vibhushan, is associated with which of the following instruments?

(a) Flute
(b) Viloin
(c) Tabla
(d) Santoor

Q85. In April 2018, the United Nations General Assembly declared 3^(rd) June as _____.

(a) World Automobile Day
(b) World Water Transport Day
(c) World Motorcycle Day
(d) World Bicycle Day

Q86. In the context of Cloud Computing, what is the full form of PaaS?

(a) Payment as a Service
(b) Platform as a Service
(c) Performance as a Service
(d) Protocol as a Service

Q87. Who among the following has been appointed as the Ethics Officer of the Indian cricket board in March 2019?

(a) Dinesh Kumar Verma
(b) D.K.Jain
(c) Suresh Babu
(d) Milind Kharat

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Q88. Which committee was appointed to give a detailed report on the Non Performing Assets of public sector banks?

(a) Pannir Selvam Committee
(b) Malegam Committee
(c) Mandal Committee
(d) Srikrishna Committee

Q89. Which of the following banks was founded by Muttaiya Chidambaram Chettiar Muthiah Chidambaram Chettiar in Chennai in 1937?

(a) Indian Overseas Bank
(b) Dhanlaxmi Bank
(c) Canara Bank
(d) Syndicate Bank

Q90. In which year was the State Financial Corporation Act passed? The Act provides for the establishment of state financial corporations.

(a) 1951
(b) 1947
(c) 1972
(d) 1983

Q91. The world body governing of which sport has introduced a new game format called ''Triples''?

(a) Badminton
(b) Squash
(c) Table tennis
(d) Tennis

Q92. The distributary of which river takes the name 'Padma' in Bangladesh?

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

Q93. For which specific reason is Pingali Venkayya remembered even today?

(a) He helped in the annexation of Hyderabad
(b) He helped in the annexation of Goa
(c) He designed the Indian National Flag
(d) He composed the music for the National Anthem

Q94. When pressure is applied to a fluid, the pressure change is transmitted to every part of the fluid without any loss. Which of the following laws explains this phenomenon?

(a) Avogadro's Law
(b) Bernoulli's Law
(c) Pascal's Law
(d) Hooke's Law

Q95. In January 2019, which panel was setup by the RBI to suggest measures to strengthen the safety of the digital payments ecosystem in India?

(a) Nandan Nilekani Panel
(b) Raghuram Rajan Panel
(c) Sudha Murthy Panel
(d) Urjit Patel Panel

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Q96. Indira Sagar Dam which is a concrete gravity dam is located in which of the following states of India?

(a) Chattisgarh
(b) Madhya Pradesh
(c) Maharashtra
(d) Uttar Pradesh

Q97. Who is the Asian cricketer named as the first non-British president of the prestigious Marylebone Cricket Club (MCC)?

(a) Kumar Sangakkara
(b) Sunil Gavaskar
(c) Wasim Akram
(d) Mahela Jayawardene

Q98. The Valley of Flowers National Park is located in _____.

(a) Meghalaya
(b) Jammu & Kashmir
(c) Himachal Pradesh
(d) Uttarakhand

Q99. In which state is Sasthamcotta Lake located?

(a) Karnataka
(b) Kerala
(c) Telangana
(d) Tamil Nadu

Q100. Dolomite is an ore of which of the following metals?

(a) magnesium
(b) Strontium
(c) Potassium
(d) Aluminium

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) depend to the willingness

• The correct answer is Option 3.

• The error lies in the wrong usage of the preposition 'to' which is used to determine the movement. 'to' should be replaced by 'on' which indicates the state of something. The verb 'depend' takes the preposition 'on'.

• Therefore, the correct sentence is 'The launch of the small electric car will depend on the willingness of buyers to pay more for it.'

Q2. Answer: (d) the critical point

- The correct answer is Option 4.
- The meaning of the given idiom 'The crux of the matter' means 'The basic, central or critical point of an issue'.
- Out of the given options, only Option 4 gives the meaning of the idiom and all other options are irrelevant.

Q3. Answer: (c) from all parts of the world

- The correct answer is Option 3.
- The meaning of the given idiom 'Four corners of the earth' means 'The far ends of the world; all parts of the world.'
- Out of given options, only Option 3 gives the exact meaning of the given idiom and all other options are irrelevant.

Q4. Answer: (c) The dead parrot was taken out from the cage by the merchant.

- The correct answer is Option 3.
- The structure of the given active sentence is 'Subject+V2+object+other words'.
- The structure of the passive sentence should be 'Object+was/were+V3+other words'.
- Option 1 is wrong because the verb 'is' is used instead of 'was'.
- Option 2 is wrong because of the wrong usage of the verb 'taking out'.a
- Option 4 is wrong because the verb is in 2nd form i.e. 'took'.
- The only option which satisfies the structure is 'Option 3' i.e. 'The dead parrot was taken out from the cage by the merchant.'

Q5. Answer: (b) clear

- The correct answer is Option 2 i.e. 'clear'.
- The meaning of the given words:
- Opaque: Unclear, Difficult to see through.
- Hazy: Thick or obscure; not clear or transparent.
- Clear: Transparent, bright, obvious.
- Frosty: Cold, chilly.
- Dull: Boring, not exciting or interesting, not shiny.
- Therefore, it is obvious that the antonym of the given word 'opaque' is 'clear'.

Q6. Answer: (c) Bhola asked his mother why that charcoal was so black.

The correct answer is Option 3.

Key Points

The given sentence is an interrogative statement in Direct speech. It needs to be converted into the indirect speech.

When we convert a sentence from the direct to the indirect mode, the following changes take place:

- The Reported verb 'Said to' is changed to 'asked' as it is an interrogative form.
- The tense of the reporting speech 'is' is changed to 'was'.
- The given sentence is in interrogative form while changing to indirect sentence it becomes an assertive sentence.
- Thus the indirect speech sentence is: Bhola asked his mother why that charcoal was so black.

Additional Information

When we convert a sentence from direct to indirect speech, we make the following changes:

- Quotation marks are omitted and the sentence ends with a full stop.
- The tense of the verb, in the reported speech involving any order, request and instruction does not undergo any change during the conversion from direct to indirect mode. This is also true if the statement is a universal truth.
- If the reporting verb is in the present tense, it does not undergo any change.
- We add the word 'to' before the verb if the verb is in the bare infinitive.
- When the reporting or principal verb is in the present tense, all present tenses of the direct are changed into the corresponding past tenses.
- Words expressing nearness in time or place are generally converted into words expressing distance. For eg. now becomes then, today becomes that day, yesterday becomes the previous day, this becomes that etc.
- In reporting commands and requests, the verb expressing command or request is added and the imperative is changed into the infinitive.
- In reporting questions the verbs like asked, inquired are added
- In reporting exclamations and wishes, the verbs expressing exclamation or wish are added.
- When we convert a sentence from the direct to the indirect mode(for a sentence ending with a mark of interrogation), we reverse

the subject-verb placement. In direct sentences, we have the verb before the subject; while in indirect, the verb follows the subject. No other option fits as per the rules of conversion and hence other options are incorrect.

Q7. Answer: (b) has not finished it

• The correct answer is Option 2.
• The word 'yet' is always preceded by the verb which is in present perfect tense.
• Therefore, the only option that satisfies the condition is Option 2 i.e. 'has not finished it'.

Q8. Answer: (d) BDAC

The correct answer is BDAC.
• Among the given jumbled sentences, the only independent sentence we have is sentence B.
• Sentence D is talking about visiting temples which is continued in sentence A. Lastly, the overall opinion is given in sentence C
• Therefore, the sequence is correctly followed in option 4 i.e. BDAC

Q9. Answer: (b) mesmerize

• The correct answer is Option 2.
• The meaning of the given options:
• Enthrall: To hold spellbound, charm or captive.
• Repel: To turn away, to reject.
• Mesmerize: Spellbound, enthrall.
• Disgust: To cause an intense dislike for something.
• Free: Unconstrained.
• Therefore, the best alternative is Option 2 i.e. mesmerize.

Q10. Answer: (d) applaud

• The correct answer is Option 4.
• The meaning of the given options:
• Denounce: To criticize or to speak out against; to openly accuse.
• Criticize: To find fault.
• Blame: Censure.
• Vilify: To say defamatory things about someone or something.
• Applaud: The act of praising.
• Therefore, Option 4 'applaud' is the antonym and all other words form the synonyms.

Q11. Answer: (c) fortunate

The correct answer is 'fortunate'.
Key Points
• The meaning of the given options:
• Favourable: pleasing, encouraging.
• Charmed: bewitched, impressed.
• Fortunate: Auspicious, lucky.
• Affluent: Somebody who is wealthy.
• The given sentence is conveying the meaning that she was feeling lucky or fortunate to have worked with great personalities.
• Therefore, option 3 fits the blank.

Q12. Answer: (a) from visiting

• The correct answer is option 1.
• The word dissuade means 'To convince not to try or do' is followed by the preposition 'from'.
• Therefore, option 1 i.e. 'from visiting' is the correct answer.

Q13. Answer: (b) inaudible

The correct answer is Option 2.
Key Points
• The meaning of the given options:

• Inevitable: impossible to avoid or prevent.
• Inaudible: Unable to be heard or not loud.
• Illegible: Not clear enough to be read
• Incomprehensible: impossible or very difficult to understand.
• Therefore, the correct one word substitution is 'Inaudible'.

Q14. Answer: (a) behaive

The solution is in Hindi. Read it online.

Q15. Answer: (b) remote

The correct answer is option 2 i.e. remote.
lost- unable to find one's way; not knowing one's whereabouts.
remote- (of a place) situated far from the main centres of population; distant.
lonesome- solitary or lonely.
dreaming- experience dreams during sleep.
As hardly any tourist can reach there it means it is very far from the central area.
Only option 2 fits the blanks space contextually.

Q16. Answer: (a) ADBC

The correct answer is option 1 i.e. ADBC.
FIrst try to find out the starting sentence.
C will not be the first one because it starts with a pronoun.
D and C will not be the first one because both are talking about the tree and shade respectively.
A will be the first sentence as it introduces the main noun of the passage.
Now we have two option starting with A.
after A, C will not come because It is not clear what THEY is used for.
So, the option 3 is out and answer will be option 1.

Q17. Answer: (a) burrow

The correct answer is: burrow.
Key Points
• Let us look at the meanings of the given options:
• burrow: a hole or tunnel dug by a rabbit, as a dwelling.
• den: a wild mammal's home
• lair: a place where a wild animal lives
• sty: a place where a pig lives
So, the correct answer is option 1.

Q18. Answer: (b) is facing

The correct answer is option 2 i.e. is facing.
For conveying that an event or thing is going on in the present, we use present continuous tense.
As the sentence contains the words 'at the moment', it is clear that this sentence should be in the present continuous tense.
So, the chosen option is correct.

Q19. Answer: (b) which

The correct answer is option 2 i.e. which.
For talking about or referring to an idea, matter, or thing we use both THAT and WHICH (relative pronouns). But only one of them has been given here and therefore, it is the correct answer.

Q20. Answer: (a) discovered

The correct answer is option 1 i.e. discovered.
The verb Discover is used when something that already existed on the planet is seen, found, or realised for the first time.
As the virus was somewhere in existence but was found in August the previous year for the first time, the correct term here would be discover.

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Q21. Answer: (b) deadly

The correct answer is option 2 i.e. deadly.
Anything that can cause death is called deadly. It is clearly mentioned in the passage that it has caused death.
So, the chosen option is correct.

Q22. Answer: (a) its

The correct answer is option 1 i.e. its.
A possessive pronoun has to be used here.
Since neuter gender is used for country names, the pronoun used here should be 'its'.
So, the chosen option is correct.

Q23. Answer: (a) inefficent

The correct answer is option 1 i.e. inefficent.
inequality- the difference in size, degree, circumstances, etc.; lack of equality.
independence- the fact or state of being independent.
influence- the capacity to have an effect on the character, development, or behaviour of someone or something, or the effect itself.
The chosen word is not correct.
The correct word will be- inefficient

Q24. Answer: (b) Med Hospitals has agreed

The correct answer is option 2.
As the verb used in part 2 of the sentence is for THE PROMOTERS and it is in the plural form so, we need to use plural verb here.
We have to replace Has with Have for making the sentence grammatically and contextually correct.

Q25. Answer: (d) secure

The correct answer is option 4 i.e. secure.
FORTIFY- provide (a place) with defensive works as a protection against attack.
loosen-make (something tied, fastened, or fixed in place) less tight or firm.
neglect- fail to care for properly.
harm- physical injury, especially that which is deliberately inflicted.
secure- fixed or fastened so as not to give way, become loose, or be lost.
The given word and the chosen word convey the same idea so they are synonyms of each other.

Q26. Answer: (a) [figure]

There are no triangles in options 3 and 4 and therefore, they get eliminated.
The triangles in option 2 are not equilateral and hence are not similar to the one in the question figure.
Therefore, option 2 gets eliminated.
The question figure is embedded in the figure in option 1 as follows:
Hence, the figure in option 1 the correct answer.

Q27. Answer: (d) 7261

The pattern followed here is:
4842 = 4 + 8 + 4 + 2 = 18;
5472 = 5 + 4 + 7 + 2 = 18;
2421 = 2 + 4 + 2 + 1 = 9;
7261 = 7 + 2 + 6 + 1 = 16;
Here the sum of digits of all numbers is multiple of 9 except option 4.
Hence, 7261 is the odd one among the given options.
Alternate solution:
1) 48 = 6 × 8 and 42 = 6 × 7 where 7 and 8 are consecutive numbers
2) 54 = 18 × 3 and 72 = 18 × 4 where 3 and 4 are consecutive numbers
3) 24 = 3 × 8 and 21 = 3 × 7 where 7 and 8 are consecutive numbers
4) in the number 7261, 61 is a prime number.
Hence, 7261 is the odd one among the given options.

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

The first letter of all the words is the same.

So, we will compare the second letters.

The second letter is e for all words, except diagonal. The second letter of diagonal is i.

e < i.

Therefore, words with the second letter as e will come before those with second letter as i.

Thus, we get: Denote, Destiny, Demand, Density < Diagonal

Now, we will compare the third letters of Denote, Destiny, Demand, Density.

m < n < s.

Therefore, Demand < Denote, Density < Destiny < Diagonal.

Let's compare the fourth letters of Denote, Density.

o < s

Therefore, Demand < Denote < Density < Destiny < Diagonal.

Hence, the dictionary order is “4, 1, 5, 2, 3”.

Q29. Answer: (b) EEBFIDWBEFE

The pattern followed here is:

For letters with positional values having 2 digits: the digits are added to obtain a sum and the code is the letter with this sum as its positional value.

For letters with positional values having 1 digit: the code is the letter with positional values decreased by 4.

Similarly,

Hence, EEBFIDWBEFE is the correct answer.

Q30. Answer: (b) OKL

The pattern followed here is:

(The sum of 1^(st) and 3^(rd) digit) - 2^(nd) digit = an odd number

Option 1: EZV = (5 + 22) - 26 = 1;

Option 2: OKL = (15 + 12) - 11 = 16;

Option 3: UPF = (21 + 6) - 16 = 11;

Option 4: AVZ = (1 + 26) - 22 = 5;

So, in option 2 the resultant form is 16 which is not an odd number.

Hence, the odd one among the given options is OKL.

Q31. Answer: (c) (7, 11, 162)

The pattern followed here is:

(11, 13, 288) → 11 + 13 = 24; 24^2 = 576 and 576 ÷ 2 = 288

Similarly,

(7, 11, 162) → 7 + 11 = 18; 182 = 324 and 324 ÷ 2 = 162

Hence, the correct answer is (7, 11, 162).

Q32. Answer: (b) 74

The pattern followed here is:

Hence, the correct answer is 74.

Q33. Answer: (a) [figure]

Some men are singers and also lecturer.

Hence, option 1 is the correct answer.

Q34. Answer: (b) 190

20 teams are there. Here each team will get 19 matches.

Consider this 19 = n

So, n (n + 1)/2 is the total number of matches played.

Therefore total number of matches = 19(19 + 1)/2 = 190;

Hence, the correct answer is 190.

Q35. Answer: (c) × and ÷

Given expression is:

28 - 42 ÷ 2 + 276 × 23

Using “BODMAS” we solve this

1) × and +

28 - 42 ÷ 2 × 276 + 23

= 28 - 21 × 276 + 23

= 28 - 5796 + 23

= 51 - 5796

= -5745 ≠ -44;

2) + and ÷

28 - 42 + 2 ÷ 276 × 23

= 28 - 42 + 1/138 × 23

= 28 - 42 + 0.17

= 28.17 - 42

= -13.83 ≠ -44;

3) × and ÷

28 - 42 × 2 + 276 ÷ 23

= 28 - 42 × 2 + 12

= 28 - 84 +12

= 40 - 84 = -44;

4) + and -

28 + 42 ÷ 2 - 276 × 23

= 28 + 21 - 6348

= 49 - 6348

= 6299 ≠ -44

Hence, the correct answer is × and ÷

Q36. Answer: (a) [figure]

When unfolded, the paper will look as in the below figure:

Hence, the figure in option 1 is the correct answer.

Q37. Answer: (d) EVVS

The pattern followed here is:

Similarly,

Hence, the correct answer is EVVS.

Q38. Answer: (d) Plough

A painter uses paintbrush for painting.

Similarly, a farmer uses plough for farming.

Hence, the correct answer is “plough”.

Q39. Answer: (c) [figure]

Hence, the figure in option 3 is the correct answer.

Q40. Answer: (d) dcbaac

1) adbbaadccaadbccadbaa → doesn't follow a pattern

2) adbcaadacabdbcaadbca → doesn't follow a pattern

3) adbcaadacabdbccadbaa → doesn't follow a pattern

4) adbca/adbca/adbca/adbca → follows a pattern i.e., adbca

Hence, the correct answer is dcbaac.

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Q41. Answer: (c) 22213235295

The pattern followed here is:

FINGER: 15232112239

F + I = 6 + 9 = 15

I + N = 9 + 14 = 23

N + G = 14 + 7 = 21

G + E = 7 + 5 = 12

E + R = 5 + 18 = 23

R = 18 = 1 + 8 = 9

and

MARKET: 14192916252

M + A = 13 + 1 = 14

A + R = 1 + 18 = 19

R + K = 18 + 11 = 29

K + E = 11 + 5 = 16

E + T = 5 + 20 = 25

T = 20 = 2 + 0 = 2

Similarly,

M + I = 13 + 9 = 22

I + L = 9 + 12 = 21

L + T = 12 + 20 = 32

T + O = 20 + 15 = 35

O + N = 15 + 14 = 29

N = 14 = 1 + 4 = 5

Hence, MILTON is coded as 22213235295.

Q42. Answer: (d) Sister in law

1) % has two children.

2) F is daughter of %.

3) A is wife of @ who is brother of #.

4) U is sister of S who is son of @.

5) T is son of #, who is a male.

Since there are two married couples, we get the following tree diagram:

Since A is the wife of @ who is the brother of #, A is the sister-in-law of %.

Hence, the correct answer is sister-in-law.

Q43. Answer: (c) Driving

Parasailing, swimming and surfing are water sports but driving is not.

Hence, the odd one among the given options is driving.

Q44. Answer: (d) (19, 23, 29)

The pattern followed here is:

• 11, 13, and 17 are consecutive prime numbers.

• Similarly, 19, 23, and 29 are consecutive prime numbers.

• Hence, the correct answer is (19, 23, 29).

Additional Information

• Option 1 - 9 is not prime.

• Option 2 - The next prime number after 37 is 41.

• Option 3 - The next prime number after 31 is 37.

Alternate Method The pattern followed here is:

• (11, 13, 17) → 11 + 2 = 13 and 13 + 4 = 17; 4 - 2 = 2

• Similarly, (19, 23, 29) → 19 + 4 = 23 and 23 + 6 = 29; 6 - 4 = 2

• Hence, the correct answer is (19, 23, 29).

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Q45. Answer: (a) 41

The pattern followed here is:

68 → $6^2 = 36$ and $8^2 = 64$;

Then, 36 + 64 = 100.

Similarly,

45 → $4^2 = 16$ and $5^2 = 25$;

Then, 16 + 25 = 41.

Hence, the related number is 41.

Q46. Answer: (a) [figure]

1) The double-pointed arrow is moving clockwise first by 90° and then by 45°; this pattern is repeated throughout the series.

Therefore, the required figure must have this arrow pointing towards the north-west direction.

Thus, option 3 gets eliminated.

2) The arrow inside the square is moving clockwise first by 90° and then by 45°; this pattern is repeated throughout the series.

Therefore, the required figure must have this arrow pointing towards the south direction.

Thus, options 2 and 4 get eliminated.

3) A new shape appears opposite to the arrow inside the square in each step.

The figure in option 1 satisfies all these conditions.

Hence, the figure in option 1 will be the next one in the given series.

Q47. Answer: (a) Week : Thursday

The pattern followed here is:

June is a month of a year.

Similarly, Thursday is a day of a week.

Hence, the correct word-pair is Week : Thursday.

Q48. Answer: (a) None of the conclusions follows.

The least possible Venn diagram is as follows:

Explanation:

I. Some tractors are cups → False (it is possible but not definite)

II. No jar is boat → False (it is possible but not definite)

III. Some cups are jars → False (it is possible but not definite)

Hence, none of the conclusions follows.

Q49. Answer: (c) 6

3 is common to both the positions of the given dice.

6 and 4 are adjacent to 3 in the first position.

5 and 2 are adjacent to 3 in the second position.

Thus, the only remaining number 1 must be on the face opposite to that of 3.

This means 5, 3 and 1 are adjacent to 2.

We have 2 choices: either 6 is opposite to 2 or 4 is opposite to 2.

Now, if on rotating the first position such that 3 is on the front face, the initial position of 3 gets replaced by 2 such that 4 is opposite to 2.

We will end up with the following situation:

This is not possible as if 2 faces of the given positions are the same, then the third one should also be the same.

Therefore, 4 is not on the face opposite to 2.

So, the opposite face of 2 is 6.

Hence, 6 will be at the top if 2 is at the bottom.

Q50. Answer: (c) 28

The triangles are as follows:

AKM, LHM, ACP, JIC, CIG, CGJ, EJK, CLK, ACH, CHP, EIL, MFP, NOF, EGF, POD, PGD, DGO, DMN, HBD, LBN, COB, BDI, DEN, DEM, DIH, DAJ, LFC, KFC.

Hence, the correct answer is 28.

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Q51. Answer: (c) 3

Given:

5y5888406x6 is divisible by 72

Concept used:

Divisibility rule of 8:- When the last three digits are divisible by 8 then the whole numbers will be divisible by 8.

Divisibility rule of 9 :- sum of the all digits of the number must be divided by 9

Calculation:

72 = 8 × 9. So, the number will be divided by 8 and 9 both

For divisibility of 8, we have

For least value of x = 1, the number 616 will be divisible by 8.

Also, For divisibility of 9, we have

the sum of all digits = 5 + y + 5 + 8 + 8 + 8 + 4 + 0 + 6 + 1 + 6 = y + 51

So it should 54 then

the value of y = 54 – 51 = 3

Therefore the required value of (9x – 2y) = 9 × 1 – 2 × 3 = 3.

Q52. Answer: (c) 81°

Given:

PQRS is a cyclic quadrilateral

angle P = 4 × angle R

angle S = 3 × angle Q

Concept used:

For a cyclic quadrilateral, the opposite angles are supplementary to each other.

angle P + angle R = 180° and angle Q + angle S = 180°

Calculation:

Let the angle R and angle Q be x and y respectively.

According to the question,

angle P = 4x and angle S = 3y.

angle P + angle R = 180°

=> 4x + x = 180°

=> x = 36°

Similarly,

angle Q + angle S = 180°

=> y + 3y = 180°

=> y = 45°

Therefore angle Q + angle R = 36° + 45° = 81°

Q53. Answer: (d) 88°

Given:

angle BEA = x°, angle EAC = 38°, angle EBD = 40°

Calculation:

In ΔBDC

=> 40° + 90° + angle C = 180° (sum of all the angles in a triangle is 180°)

=> angle C = 50°

In ΔAEC

=> 38° + 50° + angle AEC = 180°

=> angle AEC = 92°

Now,

=> x° + 92° = 180° (angles on a straight line)

=> x° = 88°

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Q54. Answer: (b) 8(1/3)

Given:

M.P. = 1.2 × C.P.

Profit reduction after certain discount offered = 10%

Formula used:

S.P. = {(100 + gain%)/100} × C.P.

Discount% = {(M.P. - S.P.)/M.P.} × 100

Calculation:

Let the CP of the article be Rs. 100.

According to the question,

MP = 1.2 × CP = Rs. 120

Also, allowing discount the profit reduces to = 10%

Therefore,

Therefore SP = 100 × 110/100 = Rs.110

Discount percentage = (120 – 110)/120 × 100 = 8(1/3)%

Q55. Answer: (b) cot θ

The equation can be written as:

=> ((sin θ - 1/sin θ)(cos θ - 1/cos θ))/(((sin²θ)/(cos²θ) - sin²θ)) = r³

=> ([(sin²θ - 1)(cos²θ - 1)]/(sin θ. cos θ))/(sin²θ (1/(cos²θ) - 1)) = r³

=> (sin²θ .cos²θ /(sin θ. cos θ))/(sin²θ ((1 - cos²θ)/(cos²θ))) = r³

=> ([cos θ /(sin θ)] × cos²θ)/((sin²θ)) = r³

=> ([cos θ /(sin θ)] × cos²θ)/((sin²θ)) = r³

=> (cos³θ)/(sin³θ) = r³

=> r = cot θ.

Q56. Answer: (b) C

Calculation:

The change in export of Type A vehicle

=> (35 – 25)/25 × 100 = 40%

The change in export of Type B vehicle

=> (50 – 40)/40 × 100 = 25%

The change in export of Type C vehicle

=> (52.5 – 45)/45 × 100 = 16.66%

The change in export of Type D vehicle

=> (60 – 47.5)/47.5 × 100 = 27.77%

The change in export of Type E vehicle

=> (62.5 – 52.5)/52.5 × 100 = 19%

Q57. Answer: (b) 16

Calculation:

Average number of vehicles exported

=> (25 + 40 + 45 + 47.5 + 52.5)/5 = 42 lacs

the number of type B exported in 2017 = 50 lacs

Therefore Required percentage = (50 – 42)/50 × 100 = 16%

Q58. Answer: (a) 109

Formula used:

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

Calculation:

$24\sqrt{3}x^3 + 5\sqrt{5}y^3 = (2\sqrt{3}x + \sqrt{5}y) \times (Ax^2 + Bxy + Cy^2)$

$=> (2\sqrt{3}x)^3 + (\sqrt{5}y)^3 = (2\sqrt{3}x + \sqrt{5}y) \times (Ax^2 + Bxy + Cy^2)$

$=> (2\sqrt{3}x + \sqrt{5}y)(12x^2 - 2\sqrt{15}xy + 5y^2) = (2\sqrt{3}x + \sqrt{5}y) \times (Ax^2 + Bxy + Cy^2)$

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=> A = 12, B = - 2√15 & C = 5

the value of $(A^2 – B^2 + C^2) = 12^2 – (-2\sqrt{15})^2 + 5^2 = 109$.

Q59. Answer: (b) 4.5

Calculation:

The total number of vehicles of type C and E exported by the company in 2017

=> (52.5 + 62.5) = 115 lacs

The total number of vehicles of type A, B and C exported in 2016

=> (25 + 40 + 45) = 110 lacs

Therefore Required percentage = (115 – 110)/110 × 100 = 4.5%

Q60. Answer: (b) Increased by 50%

Given:

Sudha spending = 80% of income

Increase in income = 30%

Increase of expenditure = 25%

Concept used:

Income = Expenditure + Saving

Calculation:

Ratio of income : expenditure : savings

=> 100 : 80 : 20 or 5 : 4 : 1

Now let 5x, 4x and x be the income, expenditure and savings.

According to the question,

new income = 5x + 5x × 30% = 6.5x

new expenditure = 4x + 4x × 25% = 5x

new savings = 6.5x – 5x = 1.5x

% change in savings = (1.5x – x)/x × 100 = +50%

Therefore her savings are increased by 50%.

Alternate MethodLet Income = 100

Then expenditure = 80 and income = 100 - 80 = 20

New Income = 100 + 30% of 100 = 130

New Expenditure = 80 + 25% of 80 = 100

New Income = 130 - 100 = 30

Increase in saving = 30 - 20 = 10

% change in savings = 10/20 × 100 = 50%

Q61. Answer: (c) Rs. 4320

Given:

Principal = Rs. 10000

Amount = Rs. 11664

Time period = 2 years

Formula used:

If interest is compounded annually, then

A = P(1 + R/100)^T

If case of Simple Interest, then

S.I. = (P × R × T)/100

where P → Principal

R → rate of interest

T → Time period

S.I. → Simple Interest

Calculation:

Compound interest = Amount – Sum

=> 11664 – 10000 = Rs. 1664

1664 can be written as = 800 + 800 + 64
Rate of interest = 8% (Because 800 = 8% of 10,000 and also 64 is 8% of 800)
Simple interest on sum for 27/5 years
=> (10000 × 8 × 27/5)/100 = Rs.4320.

Q62. Answer: (b) 3(3/4) hours

Given:
Time taken by pipe A to fill tank = 8 hours
Time taken by pipe B to fill tank = 12 hours
Time taken by pipe C to empty tank = 6 hours
Concept used:
Work done = Efficiency × Time
Calculation:
Taking LCM of the time taken by 3 pipes for filling and one emptying the tank.
LCM = 24 units
Efficiency of A = 24/8 = 3 units/hour
Efficiency of B = 24/12 = 2 units/hour.
Efficiency of C = 24/6 = 4 units/hour.
(A + B) opened for 3 hours together.
Work done by them in 3 hours = (3 + 2) × 3 = 15 units
Now C has to empty = 15 units
Time taken by C to empty this tank = 15/4 = 3(3/4) hours

Q63. Answer: (b) Rs. 80

Given:
Cost price of 40 dozen fruits = Rs 2400
Number of fruits rotten away = 30
Profit percentage = 25%
Concept used:
Selling price = Cost price × (100 + P)%
Calculation:
Number of fruits in 40 dozen fruits = 40 × 12 = 480
After 30 fruits rotten thrown = 480 – 30 = 450
C.P of 40 dozen fruits = Rs.2400
SP of 450 fruits = 2400 + 2400 × 25% = Rs.3000
S.P of 1 fruit = 3000/450 = Rs.20/3
S.P of 1 dozen of fruits = 20/3 × 12 = Rs. 80
Therefore The selling price of one dozen fruits is Rs 80.

Q64. Answer: (c) 74

Given:
$x + y + z = 2$
$xy + yz + zx = -11$
Formula used:
$x3 + y3 + z3 – 3xyz = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$
$(x + y + z)2 = x2 + y2 + z2 + 2xy + 2yz + 2zx$
Calculation:
$(x + y + z)^2 = 4$
$x^2 + y^2 + z^2 + 2xy + 2yz + 2zx = 4$
$x^2 + y^2 + z^2 = 4 – 2 × (-11) = 26$
As we know that,
$(x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx) = x^3 + y^3 + z^3 – 3xyz$
On putting the values,

=> 2 × [26 – (-11)]
=> 2 × 37 = 74

Q65. Answer: (c) 9 cm

In ΔAED and ΔABC
angle ABC = angle ADE (given)
angle A = angle A (common)
Therefore From A-A similarity
ΔAED ~ ΔACB
Therefore AE/AC = DE/BC
=> 8/(x + 3) = 6/9
=> 8/(x + 3) = 2/3
=> x + 3 = 12
Therefore x = 9
Therefore AD = 9 cm

Q66. Answer: (c) 46

Given:
The average weight of the students in a group = 75.4kg
Weights of four students who joined the group = 72.9kg, 73.8kg, 79.5kg, 87.4kg
Increase in average weight = 0.24kg
Formula used:
Average = Sum of observation ÷ number of observation
Calculation:
Let the number of students be X.
Total weight = 75.4 × X = 75.4X
After 4 students joining, Average weight of the group
=> 75.4 + 0.24 = 75.64 kg.
New total weight = 75.64 × (X + 4)
According to the question,
=> 75.64 × (X + 4) = 75.4X + 72.9 kg + 73.8 kg + 79.5 kg + 87.4 kg
=> 0.24X = 313.6 – 302.56
=> 0.24X = 11.04
=> X = 46
Therefore The number of students in the group, initially was 46.

Q67. Answer: (b) 6/7

Given:
3 × 2 ÷ 3 of 2 × 3 ÷ (5 + 5 × 5 ÷ 5 of 5 – 5 ÷ 10 of 1/5)
Concept used:
Calculation:
3 × 2 ÷ 3 of 2 × 3 ÷ (5 + 5 × 5 ÷ 5 of 5 – 5 ÷ 10 of 1/5)
=> 3 × 2 ÷ 6 × 3 ÷ (5 + 5 × 5 ÷ 25 – 5 ÷ 2)
=> 3 × 1/3 × 3 ÷ (5 + 5 × 1/5 – 5/2)
=> 3 ÷ (5 + 1 – 5/2)
=> 3 ÷ (6 – 5/2)
=> 3 ÷ (7/2)
=> 3 × 2/7
=> 6/7.

Q68. Answer: (d) 126

Given:
x^4 – 5x² – 1 = 0

Calculation:

$x4 – 5x2 – 1 = 0$

Dividing both sides by x^2

$x^2 – 5 – 1/x^2 = 0$

$\Rightarrow x^2 – 1/x^2 = 5$ ---(1)

Cubing both sides

$x^6 – 1/x^6 – 3(x^2 – 1/x^2) = 125$

$\Rightarrow x^6 – 1/x^6 – 3 \times 5 = 125$

$\Rightarrow x^6 – 1/x^6 = 140$ ---(2)

Now,

$x^6 – 3x^2 + 3/x^2 – 1/x^6 + 1 = x^6 – 1/x^6 – 3(x^2 – 1/x^2) + 1 = 140 – 3 \times 5 + 1 = 141 – 15 = 126$

Therefore $x^6 – 3x^2 + 3/x^2 – 1/x^6 + 1 = 126$

Q69. Answer: (b) 69°

Given

angle QAX = 49° and angle QBY = 62°

From alternate segment theorem

angle APQ = angle QAX = 49°

And angle BPQ = angle QBY = 62°

angle APQ + angle BPQ = 49° + 62° = 111°

Therefore angle APB = 111°

We know that in cyclic quadrilateral the sum of opposite angle is 180°

Therefore angle AQB + angle APB = 180°

=> angle AQB + 111° = 180°

Therefore angle AQB = 180° − 111° = 69°

Q70. Answer: (b) 100 π

Given:

The ratio of sides of a circumscribed rectangle = 4 : 3

The perimeter of the rectangle = 56 cm

Formula used:

Perimeter of the rectangle = 2(l + b)

Diagonal of the rectangle = $\sqrt{l^2 + b^2}$

Diameter of the circle = Diagonal of the rectangle

where l → length and b → breadth of the rectangle

Area of the circle = πr2

Calculation:

Let the l and b of the rectangle be 4x and 3x respectively.

According to the question,

2(l + b) = 56

=> 4x + 3x = 28

=> x = 4

l = 4 × 4 = 16 cm.

b = 3 × 4 = 12 cm.

Diagonal of the rectangle = $\sqrt{(16^2 + 12^2)}$ = 20 cm

The diameter of the circle = 20 cm.

Radius = 20/2 = 10 cm.

Area of the circle circumscribed = π × 10 × 10 = 100π

Q71. Answer: (b) 7/5

Given:

cot θ = √6

Formula used:

cot θ = Base/ Perpendicular
(Hypotenuse)2 = Base² + Perpendicular²
Calculation:
cot θ = √6/1
perpendicular = 1
base = √6
(Hypotenuse)² = (√6)² + 1² = 7
fraccosec²θ + sec²θ cosec²θ - sec²θ
=> (7 + 7/6)/(7 - 7/6)
=> (42 + 7)/(42 - 7)
=> 49/35 = frac75
Therefore Required answer is 7/5

Q72. Answer: (c) 13/12

Given:
sin θ.sec²θ = 2/3
Concept used:
tan30 = 1/√3, sec 30 = 2/√3, cos30 = √3/2
Calculation:
tan θ × sec θ = 2/3
Putting θ = 30° in L.H.S.
tan θ × sec θ = tan 30°× sec 30°
=> 1/√3 × 2/√3 = 2/3
LHS = RHS = 2/3
Therefore value of θ = 30°
=> (tan²θ + cos²θ) = (tan² 30°+ cos² 30°)
=> 1/3 + 3/4 = 13/12

Q73. Answer: (a) 20 : 23

Calculation:
The total number of vehicles of type D and E exported in 2016
=> (47.5 + 52.5) = 100
The total number of vehicles of type C and E exported in 2017
=> (52.5 + 62.5) = 115
Required ratio = 100/115 = 20 : 23

Q74. Answer: (b) 50

Given:
The ratio of ages of A and B eight years 8 years ago = 9 : 10
The ratio of ages of A and B 4 years from now = 12 : 13
Age of C now = A's present age + 6
Calculation:
Let 8 years ago the ages of A and B be 9x and 10x respectively.
Present ages of A and B = (9x + 8) and (10x + 8) respectively.
4 years hence, the ages of A and B = (9x + 12) and (10x + 12) respectively.
But according to the question,
(9x + 12) : (10x + 12) = 12 : 13
=> x = 4.
A's present age = (9 × 4 + 8) = 44 years
C's age = A's age + 6 = 44 + 6 = 50 years
Shortcut Trick
=> Total age gap = 13 - 10 = 3 units
Here, 3 units = 4 - (-8) = 12 years

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=> 1 units = 4

=> 12 units = 12 × 4 = 48 years

Present age of A = 48 - 4 = 44 years

The present age of C = 44 + 6 = 50 years

Q75. Answer: (d) 465

Given:

Length of train = 360m

Time taken to cross a platform and man = 55s and 24 s respectively

Formula used:

Speed = Distance/Time traveled

Calculation:

Speed of the train = 360/24 = 15 m/s

Let the length of the platform be x.

Time taken to cover the platform = 55 seconds

=> (360 + x)/15 = 55

=> x = 465 m

Q76. Answer: (d) Power Center

The correct answer is option 4, i.e. Power Center

• Robotic Process Automation is the technology that allows anyone today to configure computer software, or a “robot” to emulate and integrate the actions of a human interacting within digital systems to execute a business process.

• RPA robots utilize the user interface to capture data and manipulate applications just like humans do.

• They interpret, trigger responses and communicate with other systems in order to perform on a vast variety of repetitive tasks.

• Only substantially better: an RPA software robot never sleeps, makes zero mistakes and costs a lot less than an employee.

• There are numerous RPA tools (software) available in market such as, UiPath, Blue Prism, Pega, OpenConnect, Automation Anywhere, etc.

• Power Center is not the RPA software.

Q77. Answer: (a) Ministry of Women and Child Development

The correct answer is option 1, i.e Ministry of Women and Child Development.

• Narendra Modi won 17^(th) Lok sabha elections with 303 seats.

• The Union Cabinet for the 17th Lok Sabha includes 24 cabinet ministers, 9 ministers of state with independent charge and 24 ministers of state.

• As per the new allocation, Narendra Modi is Prime Minister and also in-charge of: Ministry of Personnel, Public Grievances and Pensions; Department of Atomic Energy; Department of Space; and All important policy issues; and All other portfolios not allocated to any Minister.

• Smriti Irani is in-charge of Ministry of Women and Child Development and Ministry of textiles.

• Below is the list of main cabinets ministry and their respective Ministers.

In-Charge	Ministries
Amit Shah	Ministry of Home Affairs
Rajnath Singh	Ministry of Defense
Nitin Gadkari	Ministry of Road Transport and Highways; and Ministry of Micro, small and Medium Enterprises
Nirmala Sitharaman	Minister of Finance and Minister of Corporate Affairs

Q78. Answer: (d) Bhagat Singh

The correct answer is option 4, i.e. Bhagat Singh.

• "Bombs and pistols do not make a revolution. The sword of revolution is sharpened on the whetting stone of ideas" is quoted by Bhagat Singh.

• This was said in the context of explaining the word "revolution", when they threw two bombs in the Legislative Assembly on April 8, 1929, and the hall was echoed by revolutionary slogans, "Long Live Revolution” and “Down With Imperialism”.

• He stated that "Generally a wrong meaning is attributed to the word revolution. That is not our understanding. Bombs and pistols

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do not make revolution. That is not our understanding. The sword of revolution is sharpened on the whetting stone of ideas. This is what we wanted to emphasize. By revolution, we mean the end of the miseries of capitalist wars."

Q79. Answer: (a) Measuring blood pressure

The correct answer is option 1, i.e. Measuring blood pressure.

• Blood pressure is measured using two numbers.

• The first number, called systolic blood pressure, measures the pressure in your blood vessels when your heartbeats.

• The second number, called diastolic blood pressure, measures the pressure in your blood vessels when your heart rests between beats.

• If the measurement reads 140 systolic and `100 diastolic, you would say, “140 over 100,” or write, “140/100 mmHg.”

Q80. Answer: (c) 1963

The correct answer is option 3, i.e. 1963.

• The Central Board of Revenue Act was established in 1963, in India.

• An Act to provide for the constitution of separate Boards of Revenue for Direct Taxes and for Indirect Taxes and Customs and to amend certain enactments for the purpose of conferring powers and imposing duties on the said Boards.

• The Department of Revenue functions under the overall direction and control of the Secretary (Revenue).

• It exercises control in respect of matters relating to all the Direct and Indirect Union Taxes through two statutory Boards namely, the Central Board of Direct Taxes (CBDT) and the Central Board of Indirect Taxes and Customs (CBIC).

• Each Board is headed by a Chairman who is also ex-officio Special Secretary to the Government of India.

• Matters relating to the levy and collection of all Direct Taxes are looked after by the CBDT whereas those relating to levy and collection of Customs and Central Excise duties and other Indirect Taxes fall within the purview of the CBIC.

• The two Boards were constituted under the Central Board of Revenue Act, 1963.

• At present, the CBDT has six Members and the CBIC has six Members. The Members are also ex-officio Special Secretaries to the Government of India.

In News

• IRS officer Nitin Gupta has been appointed as the new Central Board of Direct Taxes (CBDT) chairman. (2022)

Q81. Answer: (d) Hirasar

The correct answer is option 4, i.e. Hirasar

• Reliance Infrastructure Limited (RInfra), a part of Anil-Ambani-lead Reliance Group, has received the Letter of Award (LOA) from the Airport Authority of India (AAI) for construction of a new greenfield Airport at Hirasar in Rajkot district of Gujarat.

• The engineering, procurement and construction (EPC) contract is worth Rs 648 crore.

• The greenfield airport at Hirasar will be located about 28 km from Rajkot, is to be built at a cost of over Rs 1,400 crore.

Q82. Answer: (a) 2011

The correct answer is option 1, i.e. 2011.

• India has won the world cup for men two times in 1983 and 2011.

• Australia has won the ODI world cup five times in year 1987, 1999, 2003, 2007 and 2015. India and West Indies have won it two times each. Pakistan (1992), Sri Lanka (1996) and England (2019) has won one time each. First two tournaments was won by West Indies in 1975 and 1979.

• England has hosted five world cups, including first three and in 1999. India has hosted three times. Every Test-playing nation has hosted or co-hosted a Cricket World Cup at least once. Four hosts, Sri Lanka (1996), India (2011), Australia (2015) and England (2019) has won world cup. India, Austailia and England has won the world cup on home soil.

Q83. Answer: (b) Silk Route

The correct answer is option 2, i.e. Silk Route.

• Silk Route had their debut in the year 1998 with the album Boondein.

• Their songs have been influenced by Europen folk music.

• The band has Mohit Chauhan as the lead vocalist and guitarist, Kem Trivedi as the keyboard player, Atul Mittal as the lead guitarist, clarinet-player ,and backing vocals, and Kenny Puri as the percussionist and drummer.

Q84. Answer: (d) Santoor

The correct answer is option 4, i.e. Santoor.

• Pt. Shiv Kumar Sharma is a renowned player of Santoor instrument (was known as the Shata-Tantri Veena in earlier days) and also the vocalist.

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• Shiv Kumar Sharma is the recipient of many prestigious awards like “Padma Shree”, “Padma Vibhushan”, “Sangeet Natak Academy Award”.

Q85. Answer: (d) World Bicycle Day

The correct answer is option 4, i.e. World Bicycle day.

• United Nations has declared June 3rd as International World Bicycle Day, by adopting a resolution on April 12th 2018, during the 72nd Regular Session of the UN General Assembly, in New York City.

• To acknowledge the “uniqueness, longevity, and versatility” of the bicycle.

• Encourages stakeholders to emphasize and advance the use of the bicycle as a means of fostering sustainable development, strengthening education, including physical education, for children and young people, promoting health, preventing disease, promoting tolerance, mutual understanding and respect and facilitating social inclusion and a culture of peace;

Q86. Answer: (b) Platform as a Service

The correct answer is option 2, i.e. Platform as a Service.

• Cloud platform services, also known as Platform as a Service (PaaS), provide cloud components to certain software while being used mainly for applications.

• PaaS delivers a framework for developers that they can build upon and use to create customized applications.

• All servers, storage, and networking can be managed by the enterprise or a third-party provider while the developers can maintain management of the applications.

• Examples: AWS Elastic Beanstalk, Windows Azure, Heroku, Force.com, Google App Engine, Apache Stratos, OpenShift

Q87. Answer: (b) D.K.Jain

The correct answer is option 2, i.e. D.K. Jain.

• Supreme Court-appointed BCCI Ombudsman Justice D K Jain (retd) will now serve as the Ethics Officer of the Indian cricket board on an ad-hoc basis, the Committee of Administrator (CoA) in March, 2019.

• He served as Supreme Court's Judge from 2006 to 2013.

Q88. Answer: (a) Pannir Selvam Committee

The correct answer is option 1, i.e. Pannir Selvam Committee.

• Pannir Selvam Committee Report submitted in 1998 on NPAs of public sector banks suggests Arbitration/Conciliation under the Arbitration Act 1996 as an effective tool.

• Some of the observations made in that report in this connection are extracted below.

• The Pannir Selvam Committee has pointed out that the main reason for the growth of NPAs and slump in recoveries in banks in India is the antiquated legal system and the laws prevalent in the country.

• Thus according to the committee unless the legal system in the country is thoroughly overhauled/ reformed it would be increasingly difficult to tackle the NPA problem.

• In contrast, banks abroad have been able to contain their NPAs because of quick disposal of litigation by their judicial systems to release their dues.

• The committee suggests various measures to strengthen credit monitoring by setting up special recovery cells placing persons with credit management skills in branches having sizeable NPAs, and intensive follow up of substandard assets for the up-gradation.

• It further suggests periodic meetings with borrowers, the constitution of special recovery teams, exploring possibilities to quickly get the account adjusted by compromise/write off. Provisions have been made for doubtful and loss assets, obtaining additional security to strengthen loan assets and reduce the provision requirements.

• The committee strongly recommends making the Arbitration act 1996 to be made applicable to banks. Compulsory Arbitration by senior Retd Judges or Ex- ED/CMD of Banks / FIs is advocated before a reference to high court /DRT.

Malegam committee

• The Board of Directors of RBI constituted a Sub-Committee to study the issues and concerns on the microfinance sector.

• This SubCommittee of the Board was formed on October 15, 2010, under the chairmanship of Mr Y.H. Malegam

Mandal commitee

• The Mandal Commission was established in India on 1 January 1979 by the Janata Party government under Prime Minister Morarji Desai

• Its mandate was to "identify the socially or educationally backward classes" of India.

• It was headed by the late B.P. Mandal

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Q89. Answer: (a) Indian Overseas Bank

The correct answer is option 1, i.e. Indian Overseas Bank.

• Muttaiya Chidambaram Chettiar Muthiah Chidambaram Chettiar (2 August 1908 – 13 March 1954) was an Indian industrialist and banker who founded the Indian Overseas Bank.

• Chidambaram Chettyar succeeded his father as a director of the Indian Bank on the latter's death in 1929.

• Chidambaram Chettyar soon emerged as one of the top industrialists in the country.

• On 10 February 1937, he founded the Indian Overseas Bank, which concentrated on improving the country's industrial sector.

• The bank began business simultaneously from its branches at Karaikudi and Rangoon.

• Chidambaram Chettyar was also one of the founders of United India Assurance.

Q90. Answer: (a) 1951

The correct answer is option 1, i.e. 1951.

• The Union Parliament passed the State Financial Corporation Act on September 28, 1951 empowering the state governments to establish financial corporations for their respective regions.

• This act came into force from 1^(st) Aug. 1952.

• State Financial Corporations (SFCs) are the State level financial institutions which play a vital role in the growth of small & medium enterprises in the concerned States.

• They offer financial assistance in the form of direct subscription to debentures/equity, term loans, guarantees, discounting of bills of exchange & seed/ special capital, etc.

• SFCs have been set up with the purpose of catalyzing higher investment, engendering greater employment & extending the ownership base of industries.

Q91. Answer: (a) Badminton

The correct answer is option 1, i.e. Badminton.

• The world body governing Badminton, Badminton World Federation (BWF), has launched two new formats of the game --Airbadminton and Triples with new dimensions of the court and an innovative shuttlecock called Airshuttle.

• Traditional competitive badminton has been an indoor game. In contrast to that Airbadminton is an outdoor game.

• Airbadminton was globally launched at Guangzhou in China by Badminton World federation.

• In Triples, each team of a total of three players will have at least one female athlete.

Q92. Answer: (b) Ganga

The correct answer is option 2, i.e. Ganga.

• The Padma is a major river in Bangladesh.

• It is the main distributary of the Ganges, flowing generally southeast for 120 kilometres (75 mi) to its confluence with the Meghna River near the Bay of Bengal.

• The city of Rajshahi is situated on the banks of the river.

• The name the Padma is given to the lower part of the course of the Ganges (Ganga) below the point of the off-take of the Bhagirathi River (India), another Ganges River distributary also known as the Hooghly River. The Padma had, most probably, flowed through a number of channels at different times.

Q93. Answer: (c) He designed the Indian National Flag

The correct answer is option 3, i.e. He designed the Indian National Flag.

• Pingali Venkayya was a fervant freedom fighter and the designer of the Indian National Tricolour who went on to become synonymous with the spirit of free and independent India.

• The national flag that we see today was based upon his design.

• He met the Mahatma once again in Vijayawada and showed him his publication with the various designs of the flag. Acknowledging the need for a national flag, Gandhi then asked Venkayya to design a fresh one at the national congress meeting in 1921.

• Initially, Venkayya came up with saffron and green colours, but it later evolved with a spinning wheel at the centre and a third colour-white. The flag was officially adopted by the Indian National Congress in 1931.

Q94. Answer: (c) Pascal's Law

The correct answer is option 3, i.e. Pascal's Law.

Concept:

Law	Property/Explanation

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Avogadro's Law	It states that equal volumes of all gases under the same conditions of temperature and pressure contain the equal number of molecules.
Bernoulli's Law	For a streamlined flow of an ideal liquid in a varying cross-section tube, the total energy per unit volume remains constant throughout the fluid. i.e., $P + 1/2\rho v^2 + \rho gh$ = constant
Pascal's Law	Pascal's Law is the principle of transmission of fluid-pressure. It says that "a pressure exerted anywhere in a point of the confined fluid is transmitted equally in all directions throughout the fluid".
Hooke's Law	Hooke's law states that within the elastic limit the stress applied on a body is directly proportional to strain produced.

Explanation:

From the above explanation, we can see that,

• Pascal's principle, also called Pascal's law, in fluid (gas or liquid) mechanics, statement that in a fluid at rest in a closed container, a pressure change in one part is transmitted without loss to every portion of the fluid and to the walls of the container.

• The principle was first enunciated by the French scientist Blaise Pascal.

• The pressure is equal to the force divided by the area on which it acts.

• According to Pascal's principle, in a hydraulic system, a pressure exerted on a piston produces an equal increase in pressure on another piston in the system.

• If the second piston has an area 10 times that of the first, the force on the second piston is 10 times greater, though the pressure is the same as that on the first piston. This effect is exemplified by the hydraulic press, based on Pascal's principle, which is used in such applications as hydraulic brakes.

• Pascal also discovered that the pressure at a point in a fluid at rest is the same in all directions; the pressure would be the same on all planes passing through a specific point. This fact is also known as Pascal's principle, or Pascal's law.

Q95. Answer: (a) Nandan Nilekani Panel

The correct answer is option 1, i.e. Nandan Nilekani Panel.

• The Reserve Bank of India constituted a high-level committee under Nandan Nilekani to suggest measures to strengthen the safety and security of digital payments in the country.

• The five-member panel on deepening of digital payments has been constituted with a view to encourage digitisation of payments and enhance financial inclusion through digitisation.

• Infosys co-founder and chairman Nandan Nilekani is the former chairman of Aadhaar-issuing body, Unique Identity Authority of India.

Q96. Answer: (b) Madhya Pradesh

The correct answer is option 2, i.e. Madhya Pradesh.

• Indira Sagar Project (ISP) situated on River Narmada, 10 Km from village Punasa in Khandwa district of Madhya Pradesh.

• Indira Sagar Project is the mother project for the downstream projects on Narmada Basin with the largest reservoir in India, having 12.22 m^3 storage capacity.

• River Narmada, the fifth largest river in India, with a river flow length of 1312 km originates from Amarkantak in Shahdol district of Madhya Pradesh.

• The Narmada flows westward and after passing through Madhya Pradesh, Gujrat and Maharashtra, it drains into the Arabian Sea near Gulf of Cambay.

Q97. Answer: (a) Kumar Sangakkara

The correct answer is option 1, i.e. Kumar Sangakkara.

• Former Sri Lanka batsman Kumar Sangakkara became the first non-British president of the prestigious Marylebone Cricket Club (MCC).

• Sangakkara will begin his one-year tenure in October 2019, having been nominated by the incumbent, Anthony Wreford.

• The 41-year-old, who retired from playing in 2017 and is already an honorary life member of MCC and has sat on its influential world cricket committee for the past seven years.

Q98. Answer: (d) Uttarakhand

The correct answer is option 4, i.e. Uttarakhand.

• Bestowed with the rare and exotic Himalayan flora, the Valley of Flowers is a bouquet of nature peacefully snuggled in the West Himalayan region of Uttarakhand.

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• The trek of Valley of flowers goes through dense forests, along with the Pushpawati river and can be reached by crossing many bridges, glaciers, and waterfalls on the way.

• This glaring piece of nature is an Indian National Park and a UNESCO World Heritage Site exhibiting plush meadows blossomed with endemic alpine flowers and diverse fauna in this valley.

Q99. Answer: (b) Kerala

The correct answer is option 2, i.e. Kerala.

• Sasthamkotta Lake, also categorized as a wetland, is the largest fresh water lake in Kerala.

• The lake is named after the ancient Sastha temple (a pilgrimage center) located on its bank.

• It is surrounded by hills on all sides except south where a bund has been constructed separating the lake from the neighboring rice fields.

• The present area of the lake is 375 ha since large part of the lake is occupied for agriculture.

• The lake is used for fishing.

• The source of water is from the underground sprouts.

• The lake has a capacity to hold 22390 million litres of water and serves as the source of drinking water for half a million people of Kollam district.

Q100. Answer: (a) magnesium

the correct answer is magnesium.

• Dolomite is a magnesium ore with the general formula $MgCO_3 \cdot CaCO_3$.

• It is the primary component of the sedimentary rock known as dolostone and the metamorphic rock known as dolomitic marble.

• Dolomite is rarely found in modern sedimentary environments, but dolostones are very common in the rock record.

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