SSC CHSL Previous Paper 3 (Held On: 2 Jul 2019 Shift 2) (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. Select the word which means the same as the group of words given.

impossible or extremely difficult to understand

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

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

ADHERE

(a) ignore
(b) detach
(c) comply
(d) release

Q3. Select the correct indirect form of the given sentence.

The shopkeeper asked me, "Where is your car?"

(a) The shopkeeper asked me where was my car.
(b) The shopkeeper asked me where my car is.
(c) The shopkeeper asked me where is your car.
(d) The shopkeeper asked me where my car was.

Q4. In the sentence identify the segment which contains the grammatical error.

Billionaire Philip is the owner of the luxury yacht Lionheart, which worth an estimated $150 million.

(a) Billionaire Philip is
(b) the owner of
(c) which worth
(d) an estimated $150 million

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

INORDINATE

(a) exorbitant
(b) reasonable
(c) undue
(d) extreme

Q6. Select the most appropriate synonym of the given word.

CURRENT

(a) present
(b) antiquated

(c) old
(d) uncommon

Q7. Select the word which means the same as the group of words given.
a type of dome-shaped shelter built from blocks of solid snow
(a) hut
(b) wigwam
(c) igloo
(d) chalet

Q8. Select the most appropriate meaning of the given idiom.
bite your tongue
(a) stop yourself from saying something
(b) get bruises in the mouth
(c) talk for a long time
(d) be impossible to be understood

Q9. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.
The boys were delighted on the idea of going to Goa.
(a) at the idea of
(b) on an idea of
(c) at an idea of
(d) No improvement

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.

Trade on the New York Stock Exchange was (1) ____ to a standstill on an autumn day (2) __ 1994. The culprit for the outage (3) __ a squirrel that had chewed through a power line near the computer centre of the (4) __ in Trumbull, Connecticut. The shutdown (5) ____ lasted for half-an-hour, resulted in the NYSE operating at 85 percent capacity.

Q10. Select the most appropriate option for blank No. 1.
(a) happened
(b) brought
(c) worked
(d) taken

Q11. Select the most appropriate option for blank No. 2.
(a) by
(b) in
(c) at
(d) on

Q12. Select the most appropriate option for blank No. 3.
(a) has
(b) were
(c) is
(d) was

Q13. Select the most appropriate option for blank No. 4.
(a) bank
(b) town
(c) exchange
(d) store

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Q14. Select the most appropriate option for blank No. 5.

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

Q15. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. In the opening scene, the young boy Pip meets an escaped convict in a graveyard.
B. 'Great Expectations' is a novel by Charles Dickens.
C. The novel is set in Kent and London in the early 19th century.
D. It depicts the personal growth and development of an orphan named Pip.

(a) CBAD
(b) ABCD
(c) BCDA
(d) DCAB

Q16. Select the most appropriate antonym of the given word.

JEOPARDIZE

(a) hazard
(b) protect
(c) threaten
(d) imperil

Q17. 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.

He tried to prevent his friend to smoke.

(a) No improvement
(b) smoking
(c) to smoking
(d) from smoking

Q18. In the sentence identify the segment which contains the grammatical error.

On September 11, 2001, two hijacked aeroplanes crashed to the World Trade Centre in New York.

(a) crashed to the
(b) two hijacked aeroplanes
(c) On September 11, 2001
(d) World Trade Centre in New York

Q19. Select the correct passive form of the given sentence.

The Japanese Emperor Akihito abdicated the Chrysanthemum Throne in April, 2019.

(a) The Chrysanthemum Throne was abdicated by the Japanese Emperor Akihito in April,2019.
(b) The Chrysanthemum Throne is abdicated by the Japanese Emperor Akihito in April,2019.
(c) The Chrysanthemum Throne has abdicated by the Japanese Emperor Akihito in April,2019.
(d) The Japanese Emperor Akihito was abdicated by the Chrysanthemum Throne in April, 2019.

Q20. Select the wrongly spelt word.

(a) Session
(b) Satiate
(c) Settle
(d) Satallite

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Q21. Select the most appropriate word to fill in the blank.

Municipal corporations have started to take _____ of the problems of waste management.

(a) cognizance
(b) perception
(c) attention
(d) knowledge

Q22. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. One fine morning, a hunter was getting ready to go hunting.
B. He pulled the blanket over the sleeping child.
C. As he did so, he thought the blanket was not warm enough.
D. Before departing, he went to see his little baby who was sleeping in a crib.

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

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

tit for tat

(a) to take advantage of someone
(b) to reward people for the good done
(c) to make someone angry
(d) to do harm as done to you

Q24. Select the most appropriate word to fill in the blank.

There were not enough tinsmiths in Vienna to _____ the lanterns for street lighting.

(a) execute
(b) accomplish
(c) compose
(d) manufacture

Q25. Select the wrongly spelt word.

(a) curry
(b) curse
(c) curious
(d) cursore

GENERAL INTELLIGENCE

Q26. The sum of the squares of three numbers is 336 and the ratio of the first and the second as also of the second and the third is 1 : 2. Then find the difference between third and first number?

(a) 14
(b) 16
(c) 12
(d) 10

Q27. Select the term that will come next in the following series.

3, 27, 243, 2187, ___

(a) 13561
(b) 21377
(c) 27139
(d) 19683

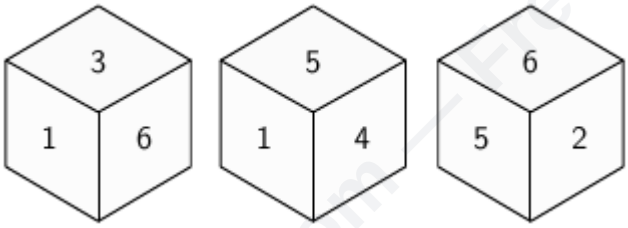
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Q28. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(8, 101, 35)

(a) (7, 89, 31)
(b) (9, 121, 39)
(c) (11, 136, 47)
(d) (6, 76, 27)

Q29. The different positions of a dice are shown below. Which number appears on the face opposite the number 6?



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

Q30. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

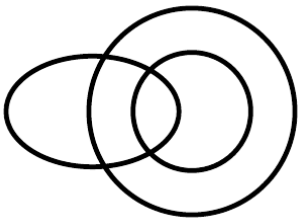
ab_bcab_b_ab_bcab_bc

(a) cdcdc
(b) dcdcd
(c) ccdcc
(d) ddcdd

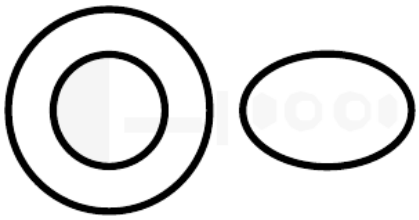
Q31. Select the Venn diagram that best illustrates the relationship between the following classes.

Mothers, Women, Pilots

(a)

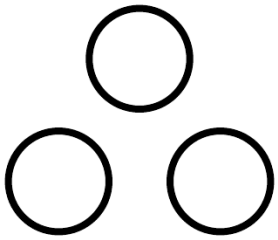


(b)

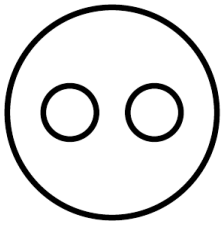


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(c)



(d)



Q32. Arrange the following words in a logical and meaningful order.

1. Results
2. Campaign
3. Sworn
4. Nominations
5. Polling

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

Q33. 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.

Candle : Illuminate

(a) Bulb : Dark
(b) Fan : Suffocation
(c) Refrigerator : Cool
(d) Oven : Grind

Q34. 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.

LENOVO : EKISSQ : : FINGER : _____

(a) YOIKBT
(b) YOIKCT
(c) YNIKBT
(d) YOIJBT

Q35. 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) 6394
(b) 3864
(c) 4638
(d) 2936

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Q36. Three of the following four letter-clusters are alike in a certain way and one is different.
Pick the odd one out.

(a) UQJF
(b) AWDZ
(c) OKPL
(d) IDWS

Q37. In a code language, TABLEPADS is written as BADCYGAPJ. How will BACKSPACE be written as in that language?

(a) DAJBJGAJY
(b) DAEBJGAEY
(c) DAIBJGAIY
(d) DEIBJGEIY

Q38. Which number will replace the question mark (?) in the following series?
4, 10, 27, 140, ?

(a) 973
(b) 397
(c) 379
(d) 937

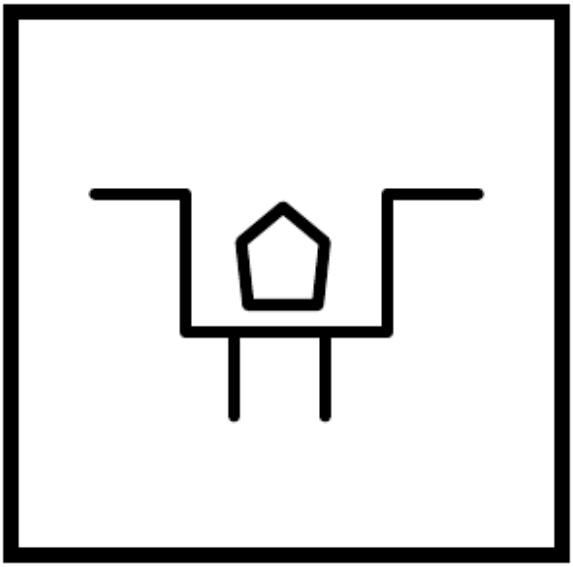
Q39. 'Iraq' is related to 'Dinar' in the same way as 'Myanmar' is related to '_____'.

(a) Rand
(b) Yen
(c) Kyat
(d) Lira

Q40. Select the set in which the numbers are related in the same way as are the numbers of the following set.
(3, 13, 196)

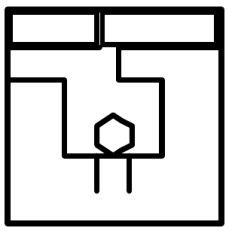
(a) (4, 14, 441)
(b) (2, 12, 287)
(c) (5, 15, 350)
(d) (6, 16, 569)

Q41. Select the option in which the given figure is embedded.

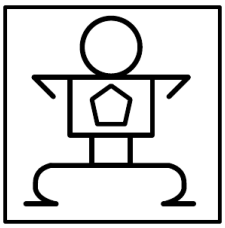


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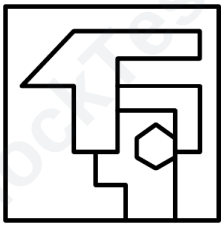
(a)



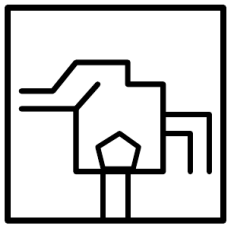
(b)



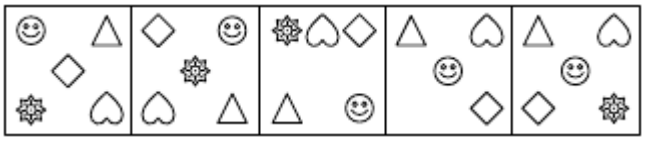
(c)



(d)



Q42. Select the figure that will come next in the following figure series.

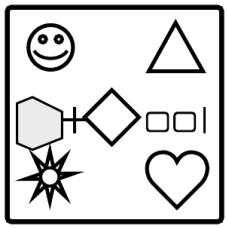


(a)

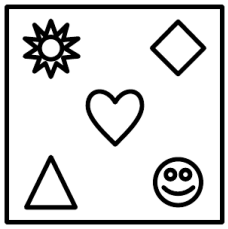


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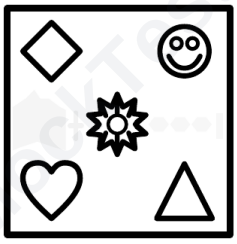
(b)



(c)



(d)



Q43. If MARBLES is coded as 181132192512 and INVITED is coded as 221969942520, then how will COMPARE be coded as?

(a) 1322531653241
(b) 1322531652241
(c) 1322531253221
(d) 1312531653241

Q44. Select the option that is related to the third number in the same way as the second number is related to the first number.

81 : 63 :: 74 : _____

(a) 23
(b) 43
(c) 33
(d) 13

Q45. If PEAR is coded as 7519 and TOIL is coded as 2693, then how will DOCTOR be coded?

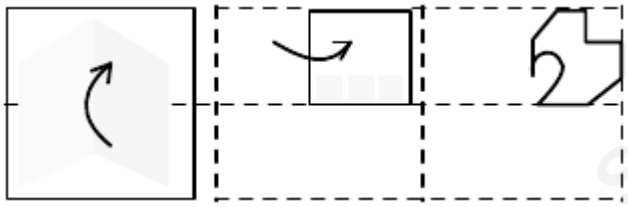
(a) 463296
(b) 463729
(c) 463239
(d) 463269

Q46. In a certain code, SLUMBER is coded as PORPYHO. How would PURPOSE be written in that same code?

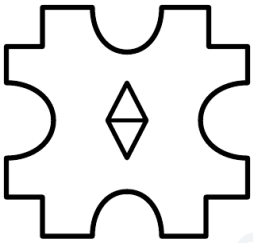
(a) OTQONRD
(b) MXOSLVB
(c) QVSQPTF
(d) SRUMRPG

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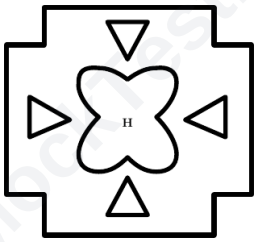
Q47. A paper is folded and cut as shown below. How will it appear when unfolded?



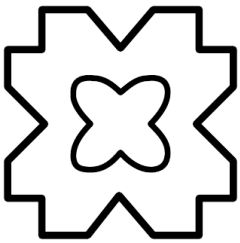
(a)



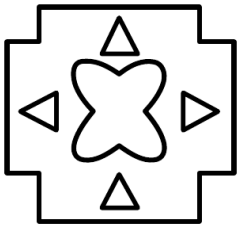
(b)



(c)

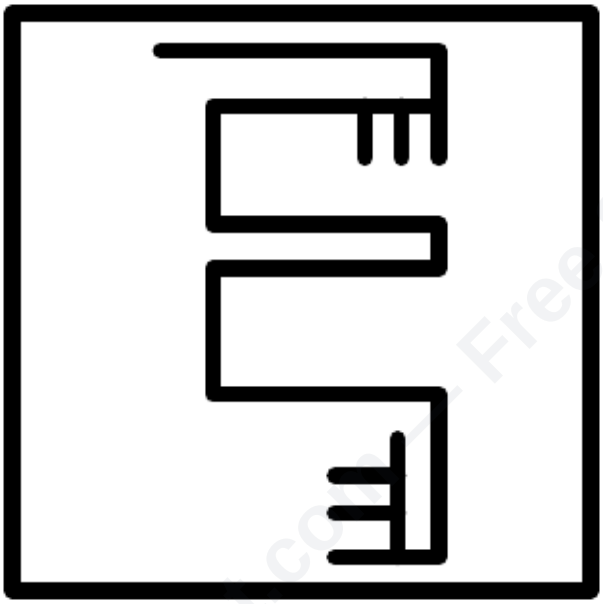


(d)



Q48. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

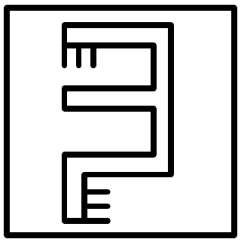
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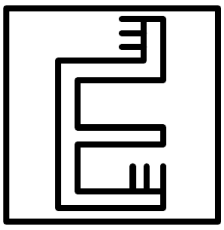
(a)



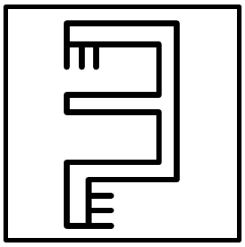
(b)



(c)



(d)

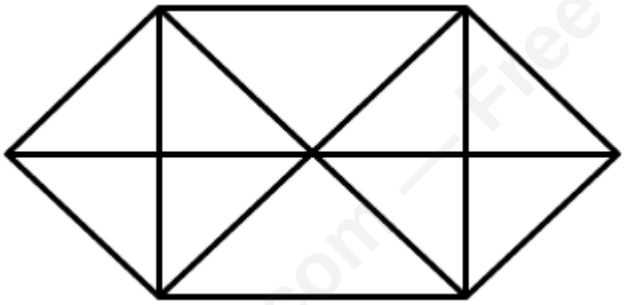


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Q49. Gopal's age is the cube of a number. It was the square of a number two years ago. What is his age?

(a) 9
(b) 27
(c) 64
(d) 62

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

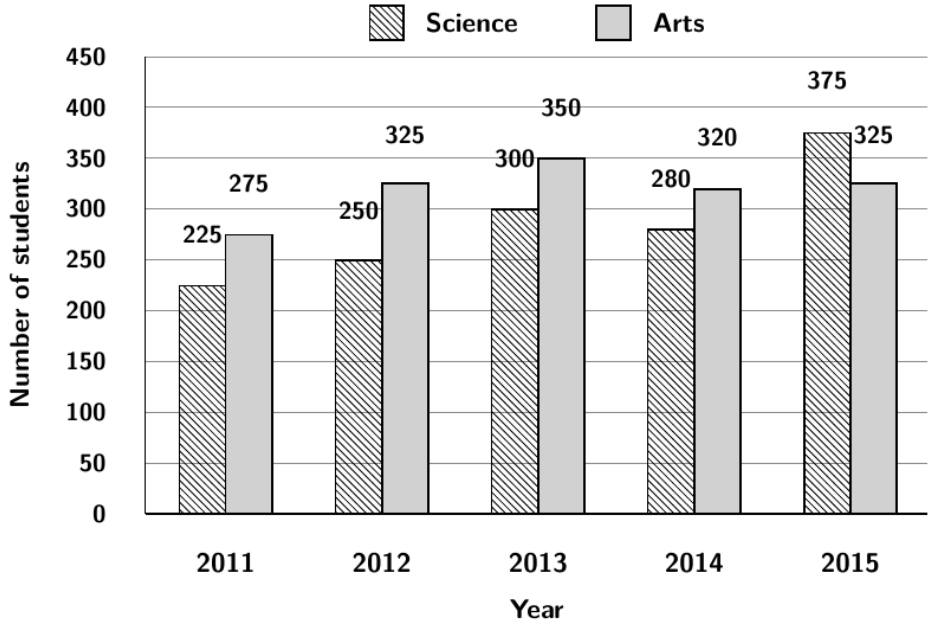


(a) 14
(b) 20
(c) 16
(d) 18

QUANTITATIVE APTITUDE

Directions

Directions: The given bar graph presents the number of students from science and arts streams from a school in different years.



Q51. In which year the number of Arts students is 30% more than that of Science?

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

Q52. What is the ratio of the total number of Science students in 2011 and 2015 to that of Arts in 2012 and 2015?

(a) 11 : 12
(b) 12 : 13
(c) 9 : 10
(d) 8 : 9

Q53. The total number of Arts students in 2011, 2013 and 2015 is what percentage less than that of Science in the given five years (correct to one decimal place)?

(a) 34.2%
(b) 32.8%
(c) 31.4%
(d) 33.6%

Q54. The average number of Science students in 2011, 2013 and 2015 is what percentage more than the number of Arts students in 2011?

(a) 8.19%
(b) 9.09%
(c) 9.311%
(d) 11.19%

Q55. If $a + b + c = 4$ and $ab + bc + ca = 1$, then the value of $a^3 + b^3 + c^3 – 3abc$ is:

(a) 52
(b) 47
(c) 50
(d) 60

Q56. The vertices A, B, C and D of a quadrilateral ABCD lie on a circle. angle A is thrice angle C and angle D is twice angle B. What is the difference between the measures of angle B and angle C?

(a) 18°
(b) 15°
(c) 20°
(d) 28°

Q57. In ΔABC, the bisectors of angle B and angle C intersect each other at a point D. If angle BDC = 107°, then the measure of angle A is:

(a) 30°
(b) 32°
(c) 26°
(d) 34°

Q58. In ΔABC, D and E are the points on sides AC and AB, respectively, such that angle ADE = angle B. If AD = 7.6 cm, AE = 7.2 cm, BE = 4.2 cm and BC = 8.4 cm, then DE is equal to:

(a) 5.6 cm
(b) 6.3 cm
(c) 7.4 cm
(d) 5.8 cm

Q59. A, B and C can finish a task in 42 days, 84 days and 28 days, respectively. A started the work. B joined him after 3 days. If C joined them after 5 days from the beginning, then for how many days did A work till the completion of the task?

(a) 18
(b) 20
(c) 15
(d) 17

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Q60. If $24\sqrt{3}x^3 + 2\sqrt{2}y^3 = (2\sqrt{3}x + \sqrt{2}y)(Ax^2 + Bxy + Cy^2)$ then $(2A + \sqrt{6}B - C)$ is equal to:

(a) 14
(b) 10
(c) 6
(d) 8

Q61. If $\tan\theta = \sec\theta \times k$, $0° < \theta < 90°$, then k is equal to:

(a) $\cot\theta$
(b) $\tan\theta$
(c) $\operatorname{cosec}\theta$
(d) $\sin\theta$

Q62. If $3\sin\theta = 2\cos^2\theta$, $0° < \theta < 90°$, then the value of $(\tan\theta + \cos\theta + \sin\theta)$ is:

(a) $\sqrt{3} + 7$
(b) $\sqrt{3} + 5$
(c) $(7 + 2\sqrt{3})/3\sqrt{3}$
(d) $(5 + \sqrt{3})/2\sqrt{3}$

Q63. The ratio of the present ages of A and B is 6 : 5. Four years ago, the ratio was 5 : 4. What will be the ratio of the ages of A and B after 12 years from now?

(a) 8 : 7
(b) 9 : 8
(c) 3 : 2
(d) 7 : 6

Q64. The curved surface area and the volume of a cylindrical pole are 132 m^2 and 528 m^3, respectively. What is the radius (in m) of the pole?

(Take $\pi = 22/7$)

(a) 8 m
(b) 12 m
(c) 24 m
(d) 32 m

Q65. If the nine-digit number 8175x45y2 is divisible by 72, then find the largest value of y:

(a) 4
(b) 8
(c) 6
(d) 9

Q66. If $\operatorname{cosec} 31° = x$, $\sec 59° \operatorname{cosec} 31° - (\sec^2\theta - \tan^2\theta)$ is equal to:

(a) $x + 1$
(b) $x^2 + 1$
(c) $x^2 - 1$
(d) $x - 1$

Q67. When an article is sold for Rs. 291, there is a loss of 3%. What will be the selling price of the article if it is sold at a gain of 8%?

(a) Rs. 308
(b) Rs. 332
(c) Rs. 324
(d) Rs. 316

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Q68. A sum of Rs. 7,500 amounts to Rs. 8,748 after 2 years at a certain compound interest rate per annum. What will be the simple interest on the same sum for 5 years at double the earlier interest rate?

(a) Rs. 8,000
(b) Rs. 6, 000
(c) Rs. 4,000
(d) Rs. 2,700

Q69. In a class of 80 students, 60% participate in games and the rest do not. The average weight of the former group is 5% more than that of the latter. If the average weight of all the students is 51.5 kg, then what is the average weight (in kg) of the former group?

(a) 54.5
(b) 52.5
(c) 60
(d) 57.6

Q70. Amit travelled from A to B at an average speed of 80 km/h. He travelled the first 75% of the distance in two-third of the time and the rest at a constant speed of x km/h. The value of x is:

(a) 56
(b) 64
(c) 54
(d) 60

Q71. The value of 3 × 2 ÷ 3 of 12 – 3 ÷ 2 × (2 – 3) × 2 + 3 ÷ 2 of 3 is:

(a) 21/3
(b) -21/3
(c) -32/3
(d) 32/3

Q72. PAT is a tangent to a circle at point A on it, and AB is a chord such that angle BAT = 72°. If C is a point on the circle such that angle CBA = 58°, then what is the measure of angle CAB?

(a) 48°
(b) 62°
(c) 50°
(d) 60°

Q73. In a constituency, 40% of the voters are senior citizens. 40% of the senior citizen voters are illiterates and 25% of the non-senior citizen voters are literates. By what percentage is the number of literate senior citizens voters less than that of illiterate non-senior citizen voters?

(a) 46.66
(b) 40
(c) 48.13
(d) 50

Q74. The simplified value of sin 25°cos 65° + cos 25° sin 65° + sin 71°cos 19° + cos 71°sin 19° is:

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

Q75. ABCD is a cycle quadrilateral such that AB is a diameter of the circle circumscribing it and angle ADC = 158°. Then angle BAC is equal to:

(a) 40°
(b) 38°
(c) 50°
(d) 68°

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GENERAL AWARENESS

Q76. The famous Dwarkadhish Temple of Gujarat is located on the banks of which of the following rivers?

(a) Tapti
(b) Gomti
(c) Narmada
(d) Luni

Q77. Which of the following types of bank accounts does NOT earn any interest for the account holder?

(a) Recurring Deposit Account
(b) Current Account
(c) Pension Account
(d) Savings Account

Q78. In 1872, Lord Mayo, the Viceroy of India was assassinated in _____

(a) Port Blair
(b) Kolkata
(c) Diu
(d) Delhi

Q79. Bangladesh defeated _____in their very first match of the 2019 World Cup held in June 2019 in England.

(a) New Zealand
(b) South Africa
(c) West Indies
(d) Pakistan

Q80. Which of the following banks was authorised to issue Electoral Bonds?

(a) ICICI Bank
(b) Corporation Bank
(c) State Bank of India
(d) HDFC Bank

Q81. Which of the following activities by Benjamin Franklin led him to gain a better understanding of lightning and eventually to the invention of the lightning rod?

(a) Swimming in a river
(b) Practising on a piano
(c) Flying a kite
(d) Riding a horse

Q82. The mother of Mahatma Gandhi was _____.

(a) Kamlabai
(b) Heerabai
(c) Putlibai
(d) Kasturbabai

Q83. The 124^(th) Amendment Bill, 2019 deals with:

(a) Economic Reservation
(b) GST
(c) Privatisation of Air India
(d) Triple Talaq

Q84. After the swearing-in of the new Union government in May 2019, who of the following was allocated the portfolio of Youth Affairs and Sports?

(a) Pratap Chandra Sarangi
(b) Smriti Irani

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(c) K Muralidharan
(d) Kiren Rijiju

Q85. Who is the Vice Captain of the Indian team that is playing the World Cup 2019 in England?
(a) MS Dhoni
(b) Rohit Sharma
(c) Shikhar Dhawan
(d) Hardik Pandya

Q86. Ram Vilas Paswan is the president of which party?
(a) Republican Party of India
(b) Lok Janshakti Party
(c) Samajwadi Party
(d) Bahujan Samaj Party

Q87. In December 2016, the National Payments Corporation of India developed a mobile payment app named as_____
(a) NAKUL
(b) GANDIV
(c) BHIM
(d) JANAK

Q88. Which of the following cities houses the headquarters of the Union Bank of India?
(a) Mumbai
(b) Kolkata
(c) Lucknow
(d) Mangalore

Q89. Which of the following rivers is popularly known as 'Dakshin Ganga'?
(a) Tungabhadra
(b) Krishna
(c) Periyar
(d) Godavari

Q90. Name the element that must be present in a compound to classify it as an organic compound.
(a) Carbon
(b) Ammonia
(c) Zinc
(d) Iron

Q91. Which of the following gases has an odour that is similar to the odour of rotten eggs?
(a) Hydrogen Sulfide
(b) Chlorine
(c) Dimethylcyclohexane
(d) Ammonia

Q92. Which colour saree embellished with bright golden borders is worn by the dancers of Mohiniyattam?
(a) White/off-white
(b) Parrot green /green
(c) Deep red /red
(d) Sea blue /blue

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Q93. In the context of international banking transactions what is the full form of SWIFT?

(a) Society for Worldwide Interbank Financial Telecommunication
(b) Society for Wireless International Financial Transactions
(c) Society for Worldwide International Financial Telecommunication
(d) Society for Worldwide International Financial Transactions

Q94. The city of Belagavi is located in the state of _____.

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

Q95. Famous writer and Congress leader Shashi Tharoor won the 2019 Lok Sabha Elections from which of the following constituencies of Kerala?

(a) Alleppey
(b) Thiruvananthapuram
(c) Kozhikode
(d) Thrissur

Q96. Who of the following was elected as the Leader of Congress Parliamentary Party after the 2019 Lok Sabha elections?

(a) Rahul Gandhi
(b) Shashi Tharoor
(c) Sonia Gandhi
(d) Mallikarjun Kharge

Q97. In computer terminology, what is the full form of RAM?

(a) Repeated Access Memory
(b) Rapid Access Memory
(c) Regular Access Memory
(d) Random Access Memory

Q98. In the world of computers, what is 'Ubuntu'?

(a) An ERP system from SAP
(b) Open source Linux operating system
(c) Latest financial software package by Infosys
(d) A firewall developed by Microsoft

Q99. Greta Thunberg, the teenage sensation and global climate change crusader is from which of the following European countries?

(a) Germany
(b) Finland
(c) Belgium
(d) Sweden

Q100. The 72^(nd) Annual Cannes Film Festival 2019 was held in _____.

(a) Russia
(b) France
(c) Italy
(d) United Kingdom

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) incomprehensible

The correct answer is option 1 i.e. incomprehensible.

incomprehensible- not able to be understood; not intelligible.

inaudible- unable to be heard.

incompatible- (of two things) so different in nature as to be incapable of coexisting.

inevitable- certain to happen; unavoidable.

Option one conveys the meaning of the written group of words.

Q2. Answer: (c) comply

The correct answer is 3 i.e. comply.

ADHERE- stick fast to (a surface or substance).

ignore- refuse to take notice of or acknowledge; disregard intentionally.

detach- disengage (something or part of something) and remove it.

comply- act in accordance with a wish or command.

release- allow or enable to escape from confinement; set free.

Option 3 best expresses the meaning of the given word.

Q3. Answer: (d) The shopkeeper asked me where my car was.

The correct answer is option 4.

We have to write the sentence in indirect case always in assertive for and the only option 2 and 4 have this structure.

We need to change the tense into past form.

Both conditions are fulfilled by option 4 so the chosen option is correct.

Q4. Answer: (c) which worth

• The correct answer is Option 3.

• The verb 'is' is missing after 'which'.

• Therefore, the correct sentence is 'Billionaire Philip is the owner of the luxury yacht Lionheart, which is worth an estimated $150 million'.

Q5. Answer: (b) reasonable

• The correct answer is Option 2.

• The meaning of the given words:

• Inordinate: Excessive, unreasonable or inappropriate in magnitude; extreme.

• Exorbitant: Exceeding proper limits; extravagant.

• Reasonable: Just, fair, agreeable to reason.

• Undue: Excessive, unjustified.

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• Extreme: in the greatest or highest degree.
• Therefore, 'reasonable' is the antonym of the given word.

Q6. Answer: (a) present

• The correct answer is Option 1.
• The meaning of the given words:
• Current: existing or occurring at the moment.
• Present: Relating to now, for the time being; current.
• Antiquated: Old-fashioned; out of date.
• Old: of an earlier time.
• Uncommon: Rare, not readily found; unusual.
• Therefore, out of given options, 'present' is the best alternative of the given word.

Q7. Answer: (c) igloo

• The correct answer is Option 3.
• The meaning of the given words:
• Hut: A small wooden shed.
• Wigwam: A home/habitation; a native American habitation.
• Igloo: A dome-shaped shelter built from blocks of solid snow.
• Chalet: An alpine style of wooden building with a sloping roof and overhanging eaves.
• Therefore, it is obvious that the word 'igloo' gives the same meaning as the group of words.

Q8. Answer: (a) stop yourself from saying something

• The meaning of the given idiom 'bite your tongue' means 'to stop yourself from saying something that you would really like to say'.
• Out of given options, only option 1 conveys the meaning of the given idiom.
• Therefore, the correct answer is Option 1.

Q9. Answer: (a) at the idea of

• The correct answer is Option 1.
• The underlined segment is wrong because of the wrong usage of the preposition 'on' which is used to express the contact or the surface of something.
• The correct preposition to be used here is 'at' which is used to indicate an activity. Article 'the' should be used because the specific reason is mentioned why the boys were delighted.
• Therefore, the correct sequence is followed by Option 1.

Q10. Answer: (b) brought

The correct answer is brought.

Key Points

Brought: taken or went with (someone or something) to a place

Additional Information

• Happened: taken place; occur
• Worked: was engaged in physical or mental activity in order to achieve a result; did work
• Taken: lay hold of (something) with one's hands; reached for and held

Q11. Answer: (b) in

The correct answer is in.

Key Points

The meaning of the given prepositions:

• 'By' is used as a preposition of place- it means “beside” / “at the side of” / “next to”. It also means 'with the help of'
• 'In' is used for unspecific times during a day, month, season, year.
• 'At' is used to indicate location or arrival in a particular place or position
• 'On' is used to indicate the contact or a surface of something.
• Therefore, in this passage as we are mentioning a year, the suitable preposition is 'in'.

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Q12. Answer: (d) was

The correct answer is was.

Key Points

• As we know that the sentence is in past tense the word in the blank should also be in the past tense.

• 'has' and 'is' gets eliminated. 'were' is wrong because the subject 'culprit' is singular so the suitable word to be used is 'was'.

Q13. Answer: (c) exchange

The correct answer is Exchange.

Key Points

As the passage is talking about the trade on the New York Stock Exchange, the word 'exchange' is the suitable word in the blank.

Exchange: a building or institution used for the trading of a particular commodity or commodities.

Additional Information

• Bank: A bank is a financial institution licensed to receive deposits and make loans.

• Town: a built-up area with a name, defined boundaries, and local government, that is larger than a village and generally smaller than a city.

• Store: a shop of any size or kind

Q14. Answer: (b) which

The correct answer is which.

Key Points

'Which' is the right choice here as we have to use a relative pronoun and for an idea we have to use 'which' as a relative pronoun used with non-living things/objects.

Q15. Answer: (c) BCDA

The correct answer is option 3.

Instead of arranging all the sentence just try to find out the first sentence.

It can be clearly said that the sentence will start only with B as this part introduce the whole thing.

And in the option only 3 starts with B so, we can choose this as our answer.

Q16. Answer: (b) protect

The correct answer is option 2 i.e. protect.

JEOPARDIZE- put (someone or something) into a situation in which there is a danger of loss, harm, or failure.

hazard- a danger or risk.

protect- keep safe from harm or injury.

threaten- state one's intention to take hostile action against (someone) in retribution for something done or not done.

imperil- put at risk of being harmed, injured, or destroyed.

Only option 2 expresses the opposite meaning of the given word.

Q17. Answer: (d) from smoking

The correct answer is option 4 i.e. from smoking.

The word prevent is always followed by FROM + V4.

This is in the option 4 so, the chosen option is correct.

Q18. Answer: (a) crashed to the

The correct answer is option 1.

We need to replace 'to' with 'into' to make the sentence grammatically correct.

The correct sentence will be- On September 11, 2001, two hijacked aeroplanes crashed into the World Trade Centre in New York.

The multifarious uses of the preposition 'into' are being given here for your quick reference.

1. expressing movement or action with the result that someone or something becomes enclosed or surrounded by something else

"cover the bowl and put it into the fridge"

2. expressing movement or action with the result that someone or something makes physical contact with something else

"he crashed into a parked car"

3. indicating a route by which someone or something may arrive at a particular destination

"the narrow road which led down into the village"

4. indicating the direction towards which someone or something is turned when confronting something else
"with the wind blowing into your face"
5. indicating an object of attention or interest
"a clearer insight into what is involved"
6. expressing a change of state
"a peaceful protest which turned into a violent confrontation"
7. expressing the result of an action
"they forced the club into a humiliating special general meeting"
8. expressing division
"three into twelve goes four"
9. INFORMAL (of a person) taking a lively and active interest in (something).
"he's into surfing and jet-skiing"

Q19. Answer: (a) The Chrysanthemum Throne was abdicated by the Japanese Emperor Akihito in April,2019.

The correct answer is option 1.
As sentence is in simple past tense (subject + v2) we need to change it into (was/were + v3).
This is only in option 1 so, the chosen option is correct.

Q20. Answer: (d) Satallite

The correct answer is option 4.
Key Points
• The correct word is Satellite- an artificial body placed in orbit around the earth or moon or another planet in order to collect information or for communication.
• Meaning of the other words given in the option are:
• Session: A session is a meeting of a court, parliament, or other official groups.
• Satiate: If something such as food or pleasure satiates you, you have all that you need or all that you want of it, often so much that you become tired of it.
• Settle: If something is settled, it has all been decided and arranged.

Q21. Answer: (a) cognizance

The solution is in Hindi. Read it online.

Q22. Answer: (d) ADBC

The correct answer is option 4.
As part A doesn't contain any pronoun and all other option contain pronoun it can be said that sentence will start with only A.
It is followed by option D. Now this two things make it clear that only 4 can be the answer as this contains this arrangement.

Q23. Answer: (d) to do harm as done to you

The correct answer is "to do harm as done to you."
Key Points
• The meaning of the given idiom is- the infliction of an injury or insult in return for one that one has suffered.
• Let's see an example-
• I noticed she didn't send me a card. I think it was tit for tat because I forgot her birthday last year.
• Hence, the correct answer is Option 4.

Q24. Answer: (d) manufacture

The correct answer is option 4 i.e. manufacture.
execute- put (a plan, order, or course of action) into effect.
accomplish- achieve or complete successfully.
compose- write or create (a work of art, especially music or poetry).
manufacture- make (something) on a large scale using machinery.
Option 4 fits the meaning of the sentence so, the chosen option is correct.

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Q25. Answer: (d) cursore

The correct answer is option 4.

cursor- a movable indicator on a computer screen identifying the point that will be affected by input from the user.

Q26. Answer: (c) 12

The ratio of the first and the second numbers is 1 : 2

The ratio of the second and the third numbers is 1 : 2 = 2 : 4

So, the ratio of first, second and third numbers is 1 : 2 : 4

Let the common multiple of the numbers be k.

Therefore, the numbers are 1k, 2k, and 4k.

Then, sum of the squares of the numbers = $(1k)^2 + (2k)^2 + (4k)^2 = (21k^2)$

(21k2) = 336 (given)

k2 = 336 ÷ 21 =16

k = 4.

First number = k = 4

Second number = 2k = 8

Third number = 4k = 16

Hence, the difference between the third and the first number = 16 - 4 = 12.

Q27. Answer: (d) 19683

The pattern followed here is:

Given number × 9 = Next number

3 × 9 = 27

27 × 9 = 243

243 × 9 = 2187

2187 × 9 = 19683

Hence, the correct answer is 19863.

Q28. Answer: (a) (7, 89, 31)

The pattern followed here is:

Second term of the given set (8, 101, 35) = 8 × 12 + 5 = 101

Third term of the given set (8, 101, 35) = 8 × 4 + 3 = 35

Applying the above pattern to the options, we get:

1) (7, 89, 31)

Second term of the given set (7, 89, 31) = 7 × 12 + 5 = 89

Third term of the given set (7, 89, 31) = 7 × 4 + 3 = 31

2) (9, 121, 39)

Second term of the given set (9, 121, 39) ≠ 9 × 12 + 5 = 113

Third term of the given set (9, 121, 39) = 9 × 4 + 3 = 39

3) (11, 136, 47)

Second term of the given set (11, 136, 47) ≠ 11 × 12 + 5 = 137

Third term of the given set (11, 136, 47) = 11 × 4 + 3 = 47

4) (6, 76, 27)

Second term of the given set (6, 76, 27) ≠ 6 × 12 + 5 = 77

Third term of the given set (6, 76, 27) = 6 × 4 + 3 = 27

Hence, the correct answer is (7, 89, 31).

Q29. Answer: (d) 4

From the first and the second positions, we see that 3, 6, 5, and 4 are adjacent to 1.

Since both 3 and 5 are shown on the same upper faces of the two positions with respect to 1, they are opposite to each other.

Similarly, 6 and 4 are shown on the same right faces with respect to 1, therefore, they are opposite to each other.

Hence, 6 appears on the face opposite the number 6.

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Q30. Answer: (d) ddcdd

Let's check each option:

1) abcbc - abdbc - abdbc - abcbc → does not follow any pattern

2) abdbc - abcbd - abcbc - abdbc → does not follow any pattern

3) abcbc - abcbd - abcbc - abcbc → does not follow any pattern

4) abdbc - abdbc - abdbc - abdbc → follows a pattern.

Hence, the combination of “ddcdd” when sequentially placed in the gaps of the given letter series will complete the series.

Q31. Answer: (a) [figure]

All mothers are women.

All pilots need not be women or mother.

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

Q32. Answer: (c) 4, 2, 5, 1, 3

The steps in the procedure of an election is as follows :

4. Nominations

2. Campaign

5. Polling

1. Results

3. Sworn

Hence, the correct order of the given words in meaningful order is '4, 2, 5, 1, 3'.

Q33. Answer: (c) Refrigerator : Cool

Illuminate means to light up.

A candle is used to light up a space.

Similarly, Refrigerator is a machine used to keep things cold.

Hence, the correct answer is Refrigerator : Cool.

Q34. Answer: (a) YOIKBT

The pattern followed here is:

Similarly,

Hence, the correct answer is YOIKBT.

Q35. Answer: (a) 6394

The pattern followed here is:

First digit × Second digit = Third digit × Fourth digit

1) 6394 → 6 × 3 = 18 and 9 × 4 = 36

2) 3864 → 3 × 8 = 24 and 6 × 4 = 24

3) 4638 → 4 × 6 = 24 and 3 × 8 = 24

4) 2936 → 2 × 9 = 18 and 3 × 6 = 18

Hence, 6394 is the odd one among the given alternatives.

Q36. Answer: (d) IDWS

The pattern followed here is:

Except for IDWS, the sum of the positional values of the letters of each word is the same.

UQJF → 21 + 17 + 10 + 6 = 54

AWDZ → 1 + 23 + 4 + 26 = 54

OKPL → 15 + 11 + 16 + 12 = 54

IDWS → 9 + 4 + 23 + 19 = 55

Hence, the correct answer is IDWS.

Q37. Answer: (c) DAIBJGAIY

The pattern followed here is:

For a letter with single-digit positional value: the positional value is squared and its corresponding letter will be considered as the code.

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For a letter with double-digit positional value: the digits are added and the corresponding letter of the sum thus obtained is considered as the code.

Similarly,

Hence, the correct answer is DAIBJGAIY.

Q38. Answer: (a) 973

The pattern followed here is:

4 × 2 + 2 = 10

10 × 3 - 3 = 27

27 × 5 + 5 = 140

140 × 7 - 7 = 973

Hence, the correct answer is 973.

Q39. Answer: (c) Kyat

The currency of Iraq is Dinar.

Similarly, the currency of Myanmar is Kyat.

Note:

Country	Currency
South Africa	Rand
Japan	Yen
Myanmar	Kyat
Turkey	Lira

Hence, the correct answer is “Kyat”.

Q40. Answer: (c) (5, 15, 350)

The pattern followed here is:

Third term of the given set (3, 13, 196) = $13^2 + 3^3 = 169 + 27 = 196$

Similarly,

1) (4, 14, 441)

Third term of the given set (4, 14, 441) = $441 \neq 14^2 + 4^3 = 196 + 64 = 260$

2) (2, 12, 287)

Third term of the given set (2, 12, 287) $287 \neq 12^2 + 2^3 = 144 + 8 = 152$

3) (5, 15, 350)

Third term of the given set (5, 15, 350) $350 = 15^2 + 5^3 = 225 + 125 = 350$

4) (6, 16, 569)

Third term of the given set (6, 16, 569) = $569 \neq 16^2 + 6^3 = 256 + 216 = 472$

Hence, the correct answer is (5, 15, 350).

Q41. Answer: (b) [figure]

The question figure is embedded in the following figure:

Hence, the figure in option 2 is the correct answer

Q42. Answer: (b) [figure]

The pattern followed here is:

The symbol in the centre of a given figure is shifted to the upper-left corner in the consecutive figure and replaced by the symbol in the lower-left corner, and the rest of the symbols are moving in a clockwise direction.

Hence, option 2 is the correct answer.

Q43. Answer: (a) 1322531653241

The pattern followed here is:

Here, the letters are coded in 3 sets.

The second and sixth letters of the words are mapped to the square of their respective positional values.

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The fourth letter is mapped to its positional value whereas, the first and the last letters of each set interchange their positional values.

A = 1 = 1^2 and E = 5^2 = 25

and

Similarly,

Hence, the code for COMPARE is 1322531653241.

Q44. Answer: (c) 33

The pattern followed here is:

$8^2 - 1^2 = 64 - 1 = 63$

Similarly,

$7^2 - 4^2 = 49 - 16 = 33$

Hence, 33 is the correct answer.

The pattern followed here is:

81 : 63

81 → 8 + 1 = 9

63 is divisible by 9.

Similarly,

74 → 7 + 4 = 11

And from the given options only 33 is divisible by 11.

Hence, the number related to 74 is 33.

Q45. Answer: (d) 463269

The pattern followed here is:

For the letter with single-digit positional value: code = the positional value of the letter

For the letter with double-digit positional value: code = the sum of the digits of the positional value of the letter.

PEAR:

P = 16 → 1 + 6 = 7

E = 5

A = 1

R = 18 → 1 + 8 = 9

Thus the code for PEAR is 7519.

TOIL:

T = 20 → 2 + 0 = 2

O = 15 → 1 + 5 = 6

I = 9

L = 12 → 1 + 2 = 3

Thus, the code for TOIL is 2693.

Similarly,

DOCTOR:

D = 4

O = 15 → 1 + 5 = 6

C = 3

T = 20 → 2 + 0 = 2

O = 15 → 1 + 5 = 6

R = 18 → 1 + 8 = 9

Hence, the code for DOCTOR will be 463269.

Q46. Answer: (b) MXOSLVB

The pattern followed here is:

For the letters in the odd places (1st, 3rd, 5th, and 7th): Positional value of the letter - 3

For the letters in the even places (2nd, 4th, and 6th): Positional value of the letter + 3

Similarly,

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Hence, the code for PURPOSE is MXOSLVB.

Q47. Answer: (c) [figure]

When unfolded, the paper will look like the figure below:

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

Q48. Answer: (d) [figure]

1)

Here, the middle part of E is shorter than the original one.

Therefore, option 1 gets eliminated.

2)

Here, the lower part of E is different from the original one.

Therefore, option 2 gets eliminated.

3)

Here, the figure is the water image of the question figure.

Therefore, option 3 gets eliminated.

4)

When the figure in the 4th option is flipped horizontally, we get the following image.

Hence, the figure in option 4 is the correct answer.

Q49. Answer: (b) 27

Let the two numbers be x and y.

Then,

Gopal's present age = x^3

and

Gopal's age two years ago = x3 - 2.

According to the given information,

$x3 - 2 = y^2$

Now, let's check each option:

1) 9 is not a cube of any number. Thus, Gopal's age cannot be 9. Therefore, option 1 gets eliminated.

2) $27 = 3^3$.

Also, $27 - 2 = 25 = 5^2$.

Thus, 27 satisfies the given condition.

3) 64 = 43. But 64 - 2 = 62 is not a square of any number.

Therefore, option 3 gets eliminated.

4) 62 is not a cube of any number. Therefore, option 4 gets eliminated.

Hence, Gopal's age is 27 years.

Note: The answer given in the key of this question paper is wrong. Therefore, changes have been made accordingly.

Q50. Answer: (d) 18

The triangles are AED, AGD, EDG, AEG, AFE, AFG, EFD, GFD, BDC, BGC, BGA, BHG, HGC, BIC, DGC, ADC, ABC, and ADB.

Hence, there are 18 triangles in the given figure.

Alternate Solution:

Hence, there are 18 triangles in the given figure.

Q51. Answer: (b) 2012

In year 2012

Number of Science students = 250

Number of Arts students = 325

Number of Arts students more than Science students = 325 – 250 = 75

Required percentage = (75/250) × 100 = 30%

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Q52. Answer: (b) 12 : 13

Total number of Science students in 2011 and 2015 = 225 + 375 = 600

Total number of Arts students in 2012 and 2015 = 325 + 325 = 650

Required ratio = 600 : 650 = 12 : 13

Q53. Answer: (d) 33.6%

The total number of Arts students in 2011, 2013 and 2015 = 275 + 350 + 325 = 950

Total number of science students in all five years = 225 + 250 + 300 + 280 + 375 = 1430

Difference = 1430 – 950 = 480

Required percentage = (480/1430) × 100 = 33.56% = 33.6% approx.

Q54. Answer: (b) 9.09%

Total number of Science students in 2011, 2013 and 2015 = 225 + 300 + 375 = 900

Average number of Science students in 2011, 2013 and 2015 = 900/3 = 300

Number of Arts students in 2011 = 275

The number of Average number of Science students in 2011, 2013 and 2015 students more than Arts students in 2011 = 300 – 275 = 25

Required percentage = (25/275) × 100 = 9.09 %

Q55. Answer: (a) 52

Given

$a + b + c = 4$

Squaring both sides

$a^2 + b^2 + c^2 + 2(ab + bc + ca) = 16$

$\Rightarrow a^2 + b^2 + c^2 + 2 \times 1 = 16$

$\Rightarrow a^2 + b^2 + c^2 = 14$

Now,

$a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ca) = 4\ (14 - 1) = 52$

Therefore $a^3 + b^3 + c^3 - 3abc = 52$

Shortcut Tricklet us assume c = 0,

we get a + b = 4 ,ab +0 +0 =1 [ab =1]

to find a3 + b3

we know that $a3 + b3 = (a + b)[(a + b)^2 - 3ab]$

$\Rightarrow a3 + b3 = 4\ [(4^2) - 3 \times 1] = 4 \times 13 = 52$

Q56. Answer: (b) 15°

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

angle A + angle C = 180°

$\Rightarrow 3\theta + \theta = 180°$

$\Rightarrow 4\theta = 180°$

$\Rightarrow \theta = 45°$

Therefore angle C = 45°

Again,

angle B + angle D = 180°

$\Rightarrow \alpha + 2\alpha = 180°$

$\Rightarrow 3\alpha = 180°$

$\Rightarrow \alpha = 60°$

Therefore angle B = 60°

Therefore Difference between angle B and angle C = 60° − 45° = 15°

Q57. Answer: (d) 34°

90° + angle A/2 = 107°

=> angle A/2 = 17°

Therefore angle A = 34°

Q58. Answer: (a) 5.6 cm

In Δ AED and Δ ACB

angle D = angle B (given)

angle A = angle A (given)

Therefore Δ AED ~ Δ ACB

Therefore AD/AB = DE/BC

7.6/11.4 = DE/8.4

=> 2/3 = DE/8.4

Therefore DE = 5.6 cm

Q59. Answer: (d) 17

Let the total work be LCM (42, 84, 28) = 84

A, 42 days efficiency 2

B, 84 days efficiency 1

C, 28 days efficiency 3

Initially A work for 3 days = 3 × 2 = 6 work

A and B together work for 2 days = 3 × 2 = 6 work

Remaining work = 84 – 12 = 72

Time taken by A, B and C to complete the remaining work = 72/6 = 12 days

Therefore A work for = 3 + 2 + 12 = 17 days

Q60. Answer: (b) 10

Given

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

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

$=> (2\sqrt{3}x + \sqrt{2}y)(12x^2 - 2\sqrt{6}xy + 2y^2) = (2\sqrt{3}x + \sqrt{2}y)(Ax^2 + Bxy + Cy^2)$

By comparing both sides

$A = 12, B = -2\sqrt{6}, C = 2$

Therefore $2A + \sqrt{6}B - C = 2 \times 12 + \sqrt{6} \times (-2\sqrt{6}) - 2 = 24 - 12 - 2 = 24 - 14 = 10$

Q61. Answer: (d) sin θ

Given

$\tan\theta = \sec\theta \times k$

$=> \sin\theta/\cos\theta = (1/\cos\theta) \times k$

Therefore $k = \sin\theta$

Q62. Answer: (d) (5 + √3)/2√3

$3\sin\theta = 2\cos^2\theta$

Put $\theta = 30°$

$3 \times 1/2 = 2 \times 3/4$

3/2 = 3/2

Therefore $\theta = 30°$

Now,

$\tan\theta + \cos\theta + \sin\theta = \tan 30° + \cos 30° + \sin 30°$

$=> (1/\sqrt{3}) + (\sqrt{3}/2) + (1/2) = (5 + \sqrt{3})/2\sqrt{3}$

Q63. Answer: (b) 9 : 8

Let the present age of A and B be 6x and 5x

According to question

(6x – 4)/(5x – 4) = 5/4

=> 24x – 16 = 25x – 20

=> x = 4

Therefore Present age of A = 6x = 6 × 4 = 24

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And present age of B = 5x = 5 × 4 = 20
After 12 year age of A will be = 24 + 12 = 36 year
And 12 age of B will be = 20 + 12 = 32 year
Therefore Required ratio = 36 : 32 = 9 : 8
Ratio four years ago = 5 : 4
Present age ratio = 6 : 5
To find the ratio of age after 12 years, we need to change the 12 years in terms of unit.
4 years = 1 unit
12 years = 3 unit
Present age ratio = 6 : 5
Ratio after 12 years = (6 + 3) : (5 + 3) = 9 : 8
Therefore Required ratio is 9 : 8.

Q64. Answer: (a) 8 m

Given
Curved surface area = 132 m^2
Volume = 528 m^3
Curved surface area/Volume = 132/528
=> $2\pi rh/\pi r^2h = 132/528$
=> $1/r = 1/8$
Therefore r = 8 m

Q65. Answer: (d) 9

When the number 8175x45y2 is divisible by 72 then it is also divisible by 8 × 9
If a number divisible by 8 then its last 3 digit must be divisible by 8
5y2 is divisible by 8 when y = 1, 5, 9
Therefore Largest value of y = 9

Q66. Answer: (c) x^2 - 1

Given
$\sec 59° \operatorname{cosec} 31° - (\sec^2 \theta - \tan^2 \theta)$
=> $\sec (90° - 31°) \operatorname{cosec} 31° - 1$
=> $\operatorname{cosec} 31° \operatorname{cosec} 31° - 1$
=> $\operatorname{cosec}^2 31° - 1$
=> $x^2 - 1$
Therefore $\sec 59° \operatorname{cosec} 31° - (\sec^2 \theta - \tan^2 \theta) = x^2 - 1$

Q67. Answer: (c) Rs. 324

CP × 97/100 = 291
Therefore CP = 300
When gain 8%, the SP will be
300 × 108/100 = 324

Q68. Answer: (b) Rs. 6, 000

Given
A = 8748
P = 7500
t = 2 year
r = ?
We know that
$A = P (1+ r/100)^2$
=> $8748 = 7500 (1 + r/100)^2$
=> $2916/2500 = (1 + r/100)^2$
=> $729/625 = (1 + r/100)^2$

=> $(27/25)^2 = (1 + r/100)^2$
=> 27/25 = 1 + r/100
=> r/100 = 2/25
Therefore r = 8%
Now,
P = 7500
r = 8 × 2 = 16%
t = 5 year
SI = ?
SI = (p × r × t)/100 = (7500 × 16 × 5)/100 = Rs. 6000

Q69. Answer: (b) 52.5

Total weight = Average weight × Total number
Total weight of all the students = 80 × 51.5 = 4120 kg
We know that 60% of students participated in games
Therefore 60% of 80 = 48 students participated in games
And number of students did not participate in games = (80 – 48) = 32
Let the weight of 32 students be x
Weight of 48 students = x + x × 5% = 1.05x
According to the question,
1.05x × 48 + x × 32 = 4120
=> x = 50kg
Therefore the weight (in kg) of the former groupstudents = 1.05x × 50 = 52.5 kg

Q70. Answer: (d) 60

Given:
Average speed = 80 km/hr
Formula used:
Distance = Speed × time
Calculation:
Let the distance be y km
Time is taken by him = y/80 h
75% of the distance = 75% of y = (3/4)y
Time is taken by him to complete the distance of y km = (y/80) × (2/3) = y/120
Rest distance = y - (3y/4) = y/4
Time taken by him = (y/80) - (y/120) = y/240
Now, A/Q
Average speed = Distance/Time
=> x = (y/4)/(y/240)
=> x = 60 km
Let the distance be 240 km
Then time taken by him = 240/80 = 3 h
75% of distance = 180
Time taken by him to complete the distance of 180 km = 3 × 2/3 = 2
Rest distance = 60 km
Time taken by him = 3 – 2 = 1 h
According to question
60/1 = x
Therefore x = 60 km/h

Q71. Answer: (d) 32/3

Concept used:
Calculation:

3 × 2 ÷ 3 of 12 – 3 ÷ 2 × (2 – 3) × 2 + 3 ÷ 2 of 3
=> 3 × 2 ÷ 3 of 12 – 3 ÷ 2 × -1 × 2 + 3 ÷ 2 of 3
=> 3 × 2 ÷ 36 – 3 ÷ 2 × -1 × 2 + 3 ÷ 6
=> 3 × (2/36) – (3/2) × -1 × 2 + 3/6
=> 1/6 + 3 + 1/2
=> 32/3

Q72. Answer: (c) 50°

We know that
angle BAT = angle BCA ----(angle on the same arc i.e. Arc AB)
Therefore angle BCA = angle BAT = 72°
In Δ ABC
angle ABC + angle BCA + angle BAC = 180°
=> 58° + 72° + angle BAC = 180°
=> angle BAC = 180° − 130° = 50°
Therefore angle BAC = 50°

Q73. Answer: (a) 46.66

Let total voter be 100
Then senior citizens = 40 and non-senior citizens = 60
Number of literates senior citizens = 24
And number of illiterate senior citizens = 16
Also Number of illiterates non-senior citizens = 45
And number of literate non-senior citizens = 15
The number of literate senior citizens voters less than that of illiterate non-senior citizen voters = 45 – 24 = 21
Required percentage = (21/45) × 100 = 46.66%

Q74. Answer: (d) 2

sin 25°cos 65° + cos 25° sin 65° + sin 71°cos 19° + cos 71°sin 19°
=> sin 25° cos (90° − 25°) + cos 25° sin (90° − 25°) + sin 71° cos (90 – 71°) + cos 71° sin (90° − 71°)
=> sin 25° sin 25° + cos 25° cos 25° + sin 71° sin 71° + cos 71° cos 71°
=> (sin²25° + cos²25°) + (sin²71° + cos²71°)
=> 1 + 1 = 2
Therefore sin 25°cos 65° + cos 25° sin 65° + sin 71°cos 19° + cos 71°sin 19° = 2
sin 25°cos 65° + cos 25° sin 65° + sin 71°cos 19° + cos 71°sin 19°
=> (sin 25°cos 65° + cos 25° sin 65°) + (sin 71°cos 19° + cos 71°sin 19°)
=> sin(25° + 65°) + sin(71° + 19°) [Because sinA.cosB + cosA.sinB = sin(A + B)]
=> sin 90° + sin 90°
=> 1 + 1 = 2
Therefore sin 25°cos 65° + cos 25° sin 65° + sin 71°cos 19° + cos 71°sin 19° = 2

Q75. Answer: (d) 68°

We know that in cyclic quadrilateral the sum of opposite angle = 180°
=> angle ABC + angle ADC = 180°
=> angle ABC + 158° = 180°
=> angle ABC = 180° − 158° = 22°
In ΔABC
We know that angle made by diameter is 90°
Therefore angle ACB = 90°
Now, angle BAC + angle ABC + angle ACB = 180°
=> angle BAC + 22° + 90° = 180°
Therefore angle BAC = 180° − 112° = 68°

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Q76. Answer: (b) Gomti

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

Key Points

• The Dwarkadhish Temple, also known as Jagat Mandir, was originally built by Vajranabha, the great grandson of Lord Krishna, on the banks of Gomti river in 400 BC.

• This five storied limestone structure stretching to a height of 170 feet is supported by 72 pillars and is located in the heart of the city.

• A huge flag on its magnificently carved dome is made from 52 yards of cloth and can be seen from a distance of almost 10 kms.

• There are two entrances to this temple; the northern gate from the main market is called Moksha Dwar whereas the southern gate is called Swarg Dwar. The latter leads to the Gomti river, 56 steps below.

Q77. Answer: (b) Current Account

The correct answer is Current Account.

• Current Account derives its name from the purpose they are most suited for regular transactions.

• And there is no limit on the number of transactions you can perform.

• Unlike a savings account, the minimum balanced to be maintained in a current account is higher.

• Moreover, the money in the account does not earn any interest (mainly because of the fluid nature of the account i.e. frequent transactions) and for certain current accounts, there is a limit on cash withdrawals.

• A current account is a must for those in business and/or profession.

• Be it a proprietorship concern, start-up, partnership firm, Limited Liability Partnership (LLP), One Person Company (OPC), private limited company, or a public limited company, everyone needs a current account.

Q78. Answer: (a) Port Blair

The correct answer is option 1, i.e. Port Blair.

Key Points

• In 1872,Lord Mayo, the Viceroy of India was assassinated at Port Blair by Sher Ali.

• Sher Ali was given life imprisonment at the penal settlement in Andaman Islands, when he stabbed and killed Lord Mayo.

• Lord Mayo (1869-1872)

• Opening of the Rajkot College in Kathiawar and the Mayo College at Ajmer for political training of Indian princes.

• Establishment of Statistical Survey of India.

• Establishment of Department of Agriculture and Commerce.

• Introduction of state railways

Q79. Answer: (b) South Africa

The correct answer is option 2, i.e. South Africa.

• Bangladesh downed an injury-hit South Africa by 21 runs in their opening match of the 2019 World Cup which was held on 2^(nd) June, 2019 at The Oval, London.

• England played the host to ICC World Cup for the 5th time. This helped making England a record for being a host for the maximum number of times.

• This year ICC World Cup 2019 witnessed the Round Robin Format.

• In this format, each team plays with every other team.

• This was the second time this type of format has followed.

• Te first time it was followed in the ICC World Cup 1992.

Q80. Answer: (c) State Bank of India

The correct answer is option 3, i.e. State Bank Of India.

• State Bank of India (SBI) is the only authorised bank to issue electoral bonds.

• Electoral bonds are being pitched as an alternative to cash donations made to political parties in a bid to bring transparency in political funding.

• The government notified the Electoral Bond Scheme in January 2018.

• As per the scheme, electoral bonds may be purchased by a person who is a citizen of India or an entity incorporated or established in India.

• A person can buy electoral bonds, either single or jointly or even with other individuals.

• Electoral bonds are valid for 15 calendar days from date of issuance and no payment is made to any payee political party if bonds are deposited after expiry of validity period.

Q81. Answer: (c) Flying a kite

The correct answer is option 3, i.e. Flying a kite.

• In June 1752, the American inventor and statesman Benjamin Franklin, with the aid of his son, lofted a flat kite fitted with a pointed wire and silk sail during a thunderstorm.

• Somehow both father and son avoided electrocution as a metal key attached to the flying line became electrified.

• Franklin proved that lightning was the natural phenomenon called electricity, not the wrath of the gods. One immediate and practical outcome of the experiment was Franklin's invention of the lightning rod.

Q82. Answer: (c) Putlibai

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

• Mahatma Gandhi, by name of Mohandas Karamchand Gandhi, (born October 2, 1869, Porbandar, India—died January 30, 1948, Delhi), Indian lawyer, politician, social activist, and writer who became the leader of the nationalist movement against the British rule of India.

• Gandhi's mother, Putlibai, was completely absorbed in religion, did not care much for finery or jewellery, divided her time between her home and the temple, fasted frequently, and wore herself out in days and nights of nursing whenever there was sickness in the family.

• Karamchand Gandhi, who was the dewan (chief minister) of Porbandar, the capital of a small principality in western India (in what is now Gujarat state) under British suzerainty—did not have much in the way of formal education.

• Mohandas grew up in a home steeped in Vaishnavism—worship of the Hindu god Vishnu—with a strong tinge of Jainism, a morally rigorous Indian religion whose chief tenets are nonviolence and the belief that everything in the universe is eternal.

Q83. Answer: (a) Economic Reservation

The correct answer is option 1, i.e. Economic Reservation.

• The Constitution (One Hundred and Twenty-Fourth Amendment) Bill, 2019 was introduced in Lok Sabha by the Minister of Social Justice and Empowerment, Mr. Thaawar Chand Gehlot on January 8, 2019.

• The Bill seeks to provide for the advancement of "economically weaker sections" of citizens.

• Article 15 of the Constitution prohibits discrimination against any citizen on the grounds of race, religion, caste, sex, or place of birth.

• However, the government may make special provisions for the advancement of socially and educationally backward classes, or for Scheduled Castes and Scheduled Tribes.

• The Bill seeks to amend Article 15 to additionally permit the government to provide for the advancement of "economically weaker sections".

• Further, up to 10% of seats may be reserved for such sections for admission in educational institutions.

• Such reservation will not apply to minority educational institutions.

• Article 16 of the Constitution prohibits discrimination in employment in any government office.

• However, the government can allow reservation for any "backward class of citizens", if they are not adequately represented in the services under the state.

• The Bill seeks to amend Article 16 to permit the government to reserve up to 10% of all posts for the "economically weaker sections" of citizens.

• The reservation of up to 10% for "economically weaker sections" in educational institutions and public employment will be in addition to the existing reservation.

Q84. Answer: (d) Kiren Rijiju

The correct answer is option 4, i.e. Kiren Rijiju.

• After 17th Loksabha Election's result, as advised by Prime Minister Narendra Modi, President Ram Nath Kovind today issued the full list of allocation of portfolios of the Union Council of Ministers.

• Prime Minister Narendra Modi will be in charge of the Ministry of Personnel, Public Grievances, and Pensions, Department of Atomic Energy; Department of Space, all important policy issues, and all other portfolios not allocated to any minister.

• Kiren Rijiju will be in charge (independently) of the Ministry of Youth Affairs and Sports; and Ministry of Minority Affairs.

• Full list of Cabinet Ministers:

Raj Nath Singh	**Minister of Defence**
Amit Shah	Minister of Home Affairs
Nitin Jairam Gadkari	Minister of Road Transport and Highways; and Minister of Micro, Small and Medium Enterprises
Nirmala Sitharaman	Minister of Finance; and Minister of Corporate Affairs

Smriti Zubin Irani	Minister of Women and Child Development; and Minister of Textiles
Dr Harsh Vardhan	Minister of Health and Family Welfare; Minister of Science and Technology; and Minister of Earth Sciences
Prakash Javadekar	Minister of Environment, Forest and Climate Change; and Minister of Information and Broadcasting

Q85. Answer: (b) Rohit Sharma

The correct answer is option 2, i.e. Rohit Sharma.

• India Squad ICC World Cup 2019:

• Captain: Virat Kohli (Right-hand batsman)

• Vice Captain: Rohit Sharma

• Wicket Keeper: MS Dhoni, Dinesh Karthik

• Full Squad: Virat Kohli (Captain), Rohit Sharma, M.S. Dhoni, K.L. Rahul, Ravindra Jadeja, Kedar Jadhav, Dinesh Karthik, Hardik Pandya, Vijay Shankar, Jasprit Bumrah, Bhuvneshwar Kumar, Mohammed Shami, Yuzvendra Chahal, Kuldeep Yadav and Rishabh Pant.

Q86. Answer: (b) Lok Janshakti Party

The correct answer is option 2, i.e. Lok Janshakti Party.

• Ram Vilas Paswan, a politician from Bihar and President of the Lok Janshakti Party (LJP),

• He is the Union minister for consumer affairs, food and public distribution in the second term of the Narendra Modi-led central government.

• He started his political career as a member of the Samyukta Socialist Party and was elected to the Bihar Legislative Assembly in 1969.

• Paswan joined the Lok Dal in 1974 and was subsequently appointed as the general secretary of the party.

• In 2000, he formed the Lok Janshakti Party (LJP) and became its president.

• Paswan joined the United Progressive Alliance government in its first term in 2004 and was made a Union Minister in charge of ministries of chemicals and fertilisers and steel.

Q87. Answer: (c) BHIM

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

• Bharat Interface for Money (BHIM) provides a fast, secure, reliable medium to make digital payments through your mobile phone using UPI (Unified Payment Interface) platform via Mobile App and USSD (Unstructured Supplementary Service Data) platform via *99# service.

• BHIM was launched by Hon’ble Prime Minister on 30th Dec 2016 and within 10 days, the BHIM app had 1 crore downloads from Andriod Play Store and over 2 million transactions across the UPI (Unified Payment Interface) and USSD (Unstructured Supplementary Service Data) platforms.

• BHIM is interoperable with other Unified Payment Interface (UPI) applications, and bank accounts.

• BHIM is developed by the National Payment Corporation of India (NPCI), a not-for-profit company for providing retail payment systems in the country under guidance from Reserve Bank of India.

• Salient features of BHIM App are as below:

i. Instant money transfer at all times.

ii. Direct transfer from one bank account to another.

iii. Scan and pay option by scanning QR code to make the payment)

iv. Generation and sharing of personalized QR code

Q88. Answer: (a) Mumbai

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

• Union Bank of India was established on 11th November 1919 with its headquarters in the city of Bombay now known as Mumbai.

• The Head Office building of the Bank in Mumbai was inaugurated by Mahatma Gandhi, the Father of the nation in the year 1921.

• Managing Director and CEO of Union Bank of India is Shri Rajkiran Rai G.

• Tagline: "Good people to bank with"

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Q89. Answer: (d) Godavari

The correct answer Godavari.

Key Points

• The Godavari River is known as 'Dakshina Ganga' i.e. “River Ganga of South India”.

• River Godavari is the largest river in south India.

• The Godavari River rises in northwestern Maharashtra state flows eastward across the broad plateau of the Deccan (peninsular India).

Q90. Answer: (a) Carbon

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

Key Points

• An organic compound is any of a large class of chemical compounds in which one or more atoms of carbon are covalently linked to atoms of other elements, most commonly hydrogen, oxygen, or nitrogen.

• Life is based on carbon; organic chemistry studies compounds in which carbon is a central element.

• The properties of carbon make it the backbone of the organic molecules which form living matter.

• Carbon is such a versatile element because it can form four covalent bonds.

• Carbon skeletons can vary in length, branching, and ring structure.

• The functional groups of organic molecules are the parts involved in chemical reactions.

• Organic molecules important for life include relatively small monomers as well as large polymers.

Q91. Answer: (a) Hydrogen Sulfide

The correct answer is option 1, i.e. Hydrogen Sulfide.

• Hydrogen sulfide is a colourless, flammable, extremely hazardous gas with a “rotten egg” smell.

• Some common names for the gas include sewer gas, stink damp, swamp gas and manure gas.

• It occurs naturally in crude petroleum, natural gas, and hot springs.

• Insoluble in water; slightly soluble in ethanol, benzene, and ethyl ether.

• In addition, hydrogen sulfide is a highly flammable gas and gas/air mixtures can be explosive.

• A level of H2S gas at or above 100 ppm is Immediately Dangerous to Life and Health (IDLH).

Q92. Answer: (a) White/off-white

The correct answer is option 1, i.e. White/off-white.

• Mohiniattam or Mohiniyattam and Kathakali both dance forms are Indian classical dance form that evolved in the state of Kerala, India.

• Mohini was the only female incarnation of Vishnu, a Hindu deity.

• Mohiniattam developed further as a performing art during the 18th and 19th centuries.

• The dancer wears a white or off-white plain sari embellished with bright golden or gold laced coloured brocade embroidered in its borders complemented with a matching choli or blouse

Q93. Answer: (a) Society for Worldwide Interbank Financial Telecommunication

The correct answer is option 1, i.e. Society for Worldwide Interbank Financial Telecommunication.

• SWIFT stands for Society for Worldwide Interbank Financial Telecommunication.

• SWIFT is a vast messaging network used by banks and other financial institutions to quickly, accurately, and securely send and receive information, such as money transfer instructions.

• At its core, SWIFT is basically just a bank-to-bank messaging system.

• It supplies a standardized language that institutions use to communicate payment instructions and other info to each other.

• SWIFT assigns each financial organization a unique code that has either eight characters or 11 characters.

• The code is interchangeably called the bank identifier code (BIC), SWIFT code, SWIFT ID, or ISO 9362 code.

Q94. Answer: (a) Karnataka

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

• Belagavi, also called Belgaum, city, northwestern Karnataka state, southwestern India.

• It is located in the Western Ghats at an elevation of about 2,500 feet (760 meters) above sea level.

• Belagavi (earlier known as “Venugrama” or the “Bamboo Village”) also known as Malenadu or Rain Country and the vegetation here is verdant green throughout the year.

• The old town area with cotton and silk weavers stands gloriously beside the modern, bustling, tree-lined British Cantonment.

• Belagavi is exactly at the center between Mumbai and Bangalore.

Q95. Answer: (b) Thiruvananthapuram

The correct answer is Thiruvananthapuram.

Key Points

• Shashi Tharoor was elected for a third consecutive term as Member of Parliament from Thiruvananthapuram, Kerala in 17th Loksabha, 2019.

• Tharoor, a former UN Under-Secretary-General, has been representing Thiruvananthapuram since 2009.

• In 2014, he won by a narrow margin of 15,000-odd votes against BJP veteran O. Rajagopal.

• In 2019, he defeated Kummanam Rajasekharan of the BJP by 99,989 votes.

Q96. Answer: (c) Sonia Gandhi

The correct answer is option 3, i.e. Sonia Gandhi.

• Sonia Gandhi was once again elected leader of the Congress Parliamentary Party (CPP) at a meeting of party MPs at the Central Hall of Parliament.

• The meeting was attended by the party's 52 newly-elected Lok Sabha MPs and Rajya Sabha members.

• Sonia Gandhi, who represents Uttar Pradesh's Rae Bareli in Lok Sabha, is the chairperson of the Congress-led United Progressive Alliance (UPA).

• Rahul Gandhi won the election from Wayanad in Kerala.

• He had also contested from the Gandhi bastion of Amethi in Uttar Pradesh but was defeated by BJP leader and Union Minister Smriti Irani by a margin of over 55,000 votes.

Q97. Answer: (d) Random Access Memory

The correct answer is option 4, i.e. Random Access Memory.

• Random access memory (RAM) is a type of data storage used in computers that is generally located on the motherboard.

• This type of memory is volatile and all information that was stored in RAM is lost when the computer is turned off.

• Volatile memory is temporary memory while ROM (read-only memory) is non-volatile and holds data permanently when the power is turned off.

• There are two main types of RAM: dynamic random access memory (DRAM), or Dynamic RAM, and static random access memory (SRAM).

• The RAM in most personal computers (PC's) is Dynamic RAM

Q98. Answer: (b) Open source Linux operating system

The correct answer is option 2, i.e. Open-source Linux operating system.

• The Ubuntu desktop is by far the world's most widely used Linux workstation platform, powering the work of engineers across the globe.

• The first official Ubuntu release — Version 4.10, codenamed the 'Warty Warthog' — was launched in October 2004, and sparked dramatic global interest as thousands of free software enthusiasts and experts joined the Ubuntu community.

• Ubuntu Server is the reference operating system for the OpenStack project, and a hugely popular guest OS on AWS, Azure and Google Cloud. Ubuntu is pre-installed on computers from Dell, HP, Asus, Lenovo, and other global vendors.

• There are also special editions for servers, OpenStack clouds, and connected devices.

• All editions share common infrastructure and software, making Ubuntu a unique single platform that scales from consumer electronics to the desktop and up into the cloud for enterprise computing.

Q99. Answer: (d) Sweden

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

• Greta Thunberg, is the teenage climate activist hail from Sweden.

• Thunberg won the 2019 Right Livelihood Award known as the "Alternative Nobel" "for inspiring and amplifying political demands for urgent climate action reflecting scientific facts."

• In May 2019, she was featured on the cover of Time magazine, which named her a "next generation leader."

• In August 2018, Greta Thunberg started a school strike for the climate outside the Swedish Parliament that has since spread all over the world and now involves over 100,000 schoolchildren. The movement is now called Fridays For Future.

• Sweden Capital: Stockholm

• Sweden's Currency: Swedish krona

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Q100. Answer: (b) France

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

• The 72nd Annual Cannes Film Festival took place from May 14, 2019, to May 25, 2019, in Cannes, France.

• Cannes film festival, official name Festival de Cannes, film festival held annually in Cannes, France.

• First held in 1946 for the recognition of artistic achievement, the festival came to provide a rendezvous for those interested in the art and influence of the movies.

• Like other film festivals, it became an international marketplace where producers and distributors could exchange ideas, view films, and sign contracts.

• The phenomenon of international coproduction arose at Cannes in the late 1940s.

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