SSC CHSL Previous Paper 13 (Held On: 5 July 2019 Shift 3) (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 most appropriate synonym of the given word.

REPRIMAND

(a) reward
(b) eradicate
(c) reproach
(d) applaud

Q2. Select the most appropriate word for the group of words.

A previous case that might serve as an example or guide in subsequent situations

(a) precursor
(b) precedent
(c) president
(d) predecessor

Q3. Select the correctly spelt word.

(a) gaity
(b) gaiety
(c) gayety
(d) gaeity

Q4. Select the most appropriate indirect form of the given sentence.

My grandmother said, "I bore six children."

(a) My grandmother said that she has born six children.
(b) My grandmother said she bore six children.
(c) My grandmother said that she had borne six children.
(d) My grandmother told that she had bore six children.

Q5. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

The shoebill stork can be recognise from its long legs and broad wings.

(a) recognise through it's
(b) recognising from it's
(c) recognised by its
(d) No substitution

Q6. Identify the segment which contains the grammatical error.

Each of the pictures have been signed by the football star.

(a) the pictures
(b) Each of

(c) signed by
(d) have been

Q7. Fill in the blank with the most appropriate word.

The entrepreneur is looking for an _____ to fund his project.

(a) inspector
(b) investor
(c) aviator
(d) invigilator

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

A. They used thin twigs called chew sticks as tooth cleaners.
B. The fuzzy end was rubbed against the teeth to keep them clean.
C. These sticks were fuzzy at one end.
D. How did people clean their teeth before the toothbrush was invented?

(a) DBCA
(b) ACBD
(c) DACB
(d) BCAD

Q9. Select the wrongly spelt word.

(a) accumulate
(b) accelarate
(c) accomplice
(d) accommodate

Q10. Select the most appropriate passive form of the given sentence.

The store manager caught the teenager shoplifting.

(a) The teenager is caught shoplifting by the store manager.
(b) The teenager was caught shoplifting by the store manager.
(c) The store manager is caught shoplifting by the teenager.
(d) The teenager has been caught shoplifting by the store manager.

Q11. Select the most appropriate word for the group of words.

One who is indifferent to pleasure or pain

(a) Stoic
(b) Wise
(c) Brave
(d) Temperate

Q12. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Her father had been stuck in an elevator for six hours.
B. Esha had heard from her parents about a blackout caused by a sudden storm.
C. She had to grope in the dark and cook by the candlelight.
D. Her mother's story had been quite different from his.

(a) ADCB
(b) BADC
(c) CADB
(d) BDCA

Directions

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.

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My grandmother is the genealogist of the family. She (1) ____ records of births, deaths, marriages and divorces. She takes the job (2) __ seriously. She sends (3) __ to the family whenever something noteworthy (4) __. We recently had a bulletin about the (5) ____ of a relative who bequeathed his antique furniture to his descendants.

Q13. Select the most appropriate option to fill in blank number 1

(a) maintains
(b) promotes
(c) produces
(d) spreads

Q14. Select the most appropriate option to fill in blank number 2

(a) quite
(b) quick
(c) quit
(d) quiet

Q15. Select the most appropriate option to fill in blank number 3

(a) brochures
(b) notices
(c) messages
(d) advertisements

Q16. Select the most appropriate option to fill in blank number 4

(a) occurs
(b) exists
(c) passes
(d) obtains

Q17. Select the most appropriate option to fill in blank number 5

(a) destruction
(b) damage
(c) demise
(d) demolition

Q18. Select the most appropriate synonym of the given word.

SORDID

(a) pure
(b) dirty
(c) clean
(d) solid

Q19. Identify the segment which contains the grammatical error.

It was a windy autumn day and leaves were fallen rapidly from the trees.

(a) It was a
(b) leaves were fallen
(c) windy autumn day
(d) rapidly from the trees

Q20. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

I have a terrible cold during several days now.

(a) have had a terrible cold for
(b) am having a terrible cold during
(c) had a terrible cold since
(d) No substitution

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

MISERY

(a) censure
(b) poverty
(c) bliss
(d) dearth

Q22. Select the most appropriate antonym of the given word.

FEROCIOUS

(a) Prudent
(b) Cunning
(c) Fierce
(d) Gentle

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

Face the music

(a) get appreciation
(b) face the criticism
(c) enjoy the harmony
(d) face the enemy

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

Have one's hands full

(a) to be very clumsy
(b) to be very busy
(c) to be very generous
(d) to be very rich

Q25. Fill in the blank with the most appropriate word.

The soldiers planned to attack at a precise hour so they _____ their watches.

(a) Exchanged
(b) Synchronized
(c) Assessed
(d) Restored

GENERAL INTELLIGENCE

Q26. Arrange the following activities in a logical and meaningful order.

1. Television audio defect
2. Restart enjoying
3. Contact mechanic
4. Television repair done
5. Switch on television

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

Q27. Three persons A, B and C have different amounts of rupees with them. If A takes 12 from C, A will have equal amount as B has. A and B together have total 102. How many rupees does A have?

(a) 50
(b) 55
(c) 45

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(d) 57

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

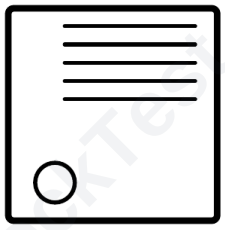
(88, 56, 72)

(a) (18, 24, 28)
(b) (66, 48, 57)
(c) (34, 28, 21)
(d) (62, 48, 52)

Q29. Select the figure that will come next in the following figure series.



(a)



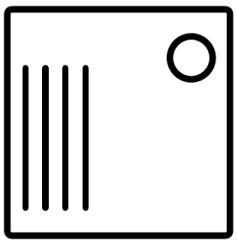
(b)



(c)



(d)



Q30. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

2 : 8

(a) 9 : 629
(b) 8 : 502
(c) 11 : 1321
(d) 7 : 343

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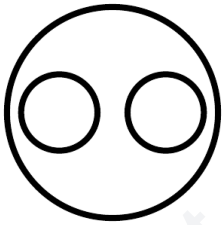
Q31. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

(a) 130
(b) 118
(c) 127
(d) 129

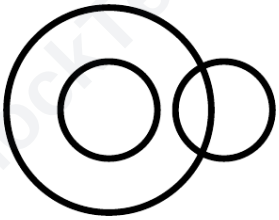
Q32. Select the Venn diagram that best illustrates the relationship between the following classes.

Metal, Iron, Mercury

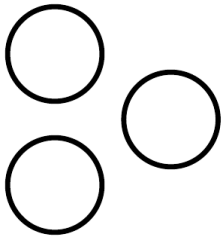
(a)



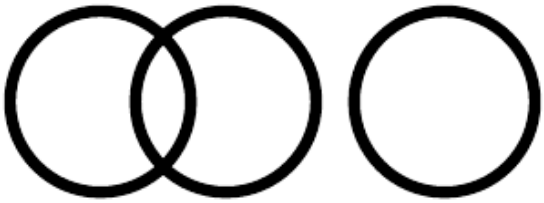
(b)



(c)

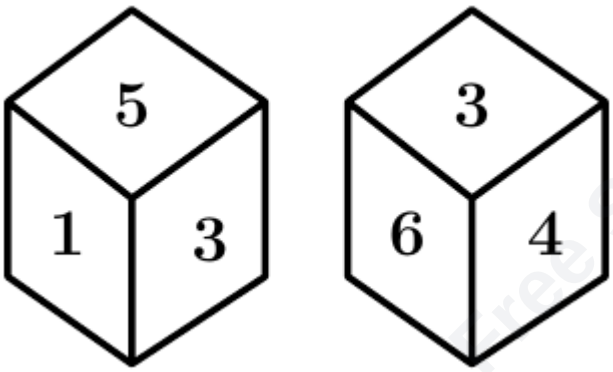


(d)



Q33. The different positions of the same dice are shown below, the six faces of which are numbered 1 to 6. Find the number opposite to the face having 3.

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(a) 4
(b) 6
(c) 1
(d) 2

Q34. In a code language, PROMOTE is written as QTROGVQ. How will LICENSE be written as in that language?

(a) EKNGPUG
(b) EKMHHUP
(c) EKNGGUP
(d) NKEGGUP

Q35. Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All ice creams are juices.

No juice is chocolate.

Conclusions :

I. Some chocolates are ice-creams.

II. Some juices are ice-creams.

III. No ice-cream is chocolate.

(a) Only conclusions I and III follow.
(b) Either conclusion I or III follows.
(c) Only conclusions II and III follow.
(d) Only conclusions I and II follow.

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

(a) SWAE
(b) AFIM
(c) UYCG
(d) IMQU

Q37. Which two signs should be interchanged in the following equation to make it correct?

211 × 14 + 627 ÷ 33 – 17 = 520

(a) • and ÷
(b) ÷ and ×
(c) • and –
(d) × and –

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Q38. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

x q _ _ m c c _ _ q p f m _ _ b x _ _ f m c _ b

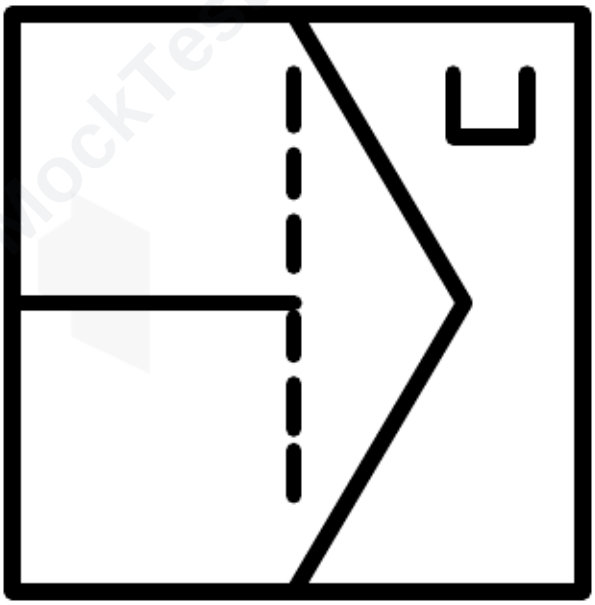
(a) pfbxcxqpc
(b) sfbcccqpc
(c) pfbxccqpc
(d) qfbxccqpc

Q39. Which number will replace the question mark (?) in the following series?

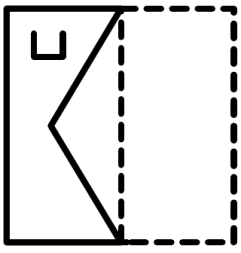
28, 32, 41, 57, 82, ?

(a) 122
(b) 120
(c) 118
(d) 116

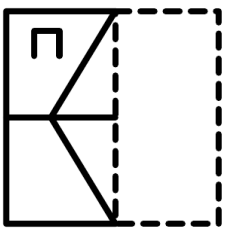
Q40. A figure of transparent sheet with a pattern is given below, Select the option that shows how the pattern would appear when the transparent sheet is folded at the dotted line.



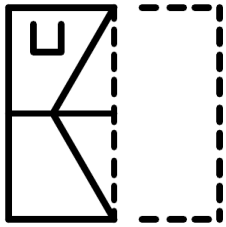
(a)



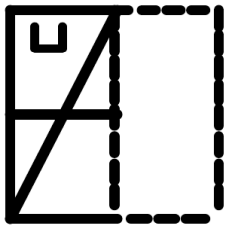
(b)



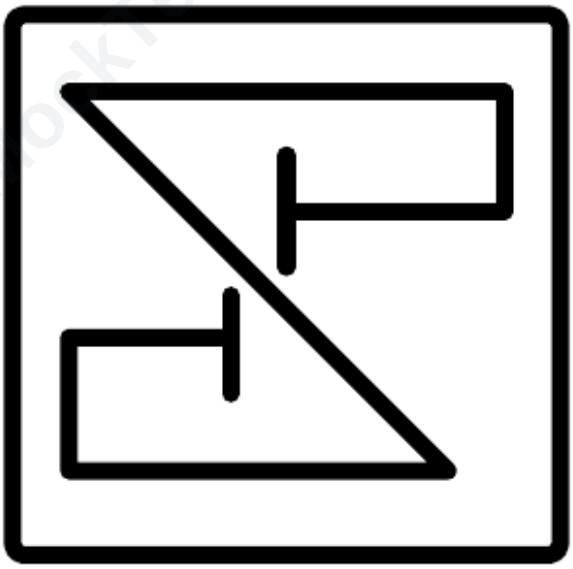
(c)



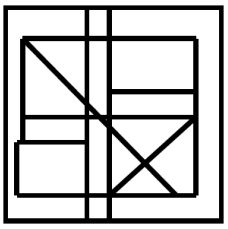
(d)



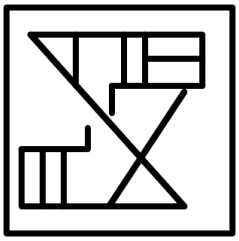
Q41. Select the option in which Figure-X is embedded. (Rotation is not allowed)



(a)

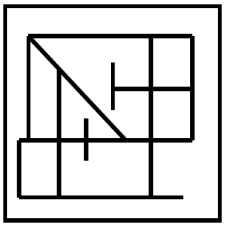


(b)

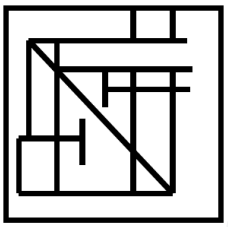


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(c)



(d)



Q42. 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.

Architect : House map

(a) Lawyer : Court
(b) Doctor : Hospital
(c) Teacher : Writer
(d) Carpenter : Furniture

Q43. 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.

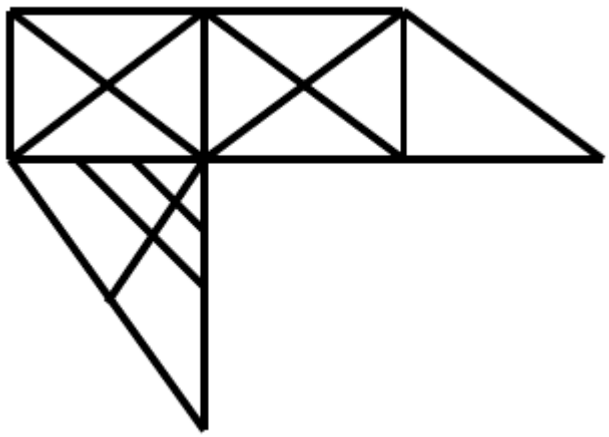
GSDL : JPGI : : UCWF : ?

(a) XYYC
(b) WZZB
(c) YZZD
(d) XZZC

Q44. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

(a) Triangle
(b) Rectangle
(c) Diagram
(d) Circle

Q45. How many triangles are present in the given figure?

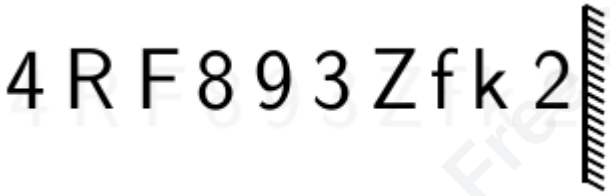


(a) 30

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(b) 32
(c) 31
(d) 29

Q46. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.



(a)



(b)



(c)



(d)



Q47. Select the set in which the numbers are related in the same way as are the numbers of the following set.
(4, 9, 16)
(a) (49, 64, 81)
(b) (16, 36, 49)
(c) (36, 81, 100)
(d) (25, 36, 64)

Q48. A + B means ‘A is son of B’
A – B means ‘A is husband of B’
A × B means ‘A is sister of B’
A ÷ B means ‘A is daughter of B’
If F × R × S ÷ G – P ÷ X, then how is X related to R?
(a) Grandson or granddaughter
(b) Father or mother
(c) Maternal grandfather or maternal grandmother
(d) Paternal grandfather or paternal grandmother

Q49. ‘Disease’ is related to ‘Diabetes’ in the same way as ‘Vehicle’ is related to ‘_____’.
(a) Driver
(b) Chassis
(c) Car

(d) Fuel

Q50. If LUCRATIVE is coded as 333912945, then how will AMSTERDAM be coded as?

(a) 131458311S
(b) 141248414
(c) 141259414
(d) 149248414

QUANTITATIVE APTITUDE

Q51. If a 10-digit number 1230x558y2 is divisible by 88, then the value of (5x + 5y) is:

(a) 50
(b) 40
(c) 20
(d) 30

Q52. If cos x = -1/2 and $\pi < x < 3\pi/2$, then the value of $2\tan^2 x + 3\operatorname{cosec}^2 x$ is:

(a) 4
(b) 16
(c) 8
(d) 10

Q53. A circle is inscribed in a triangle ABC. It touches sides AB, BC and AC at the points P, Q and R respectively. If BP = 5.4 cm, CQ = 7.3 cm and AR = 6.1 cm, then the perimeter (in cm) of the ΔABC is:

(a) 36
(b) 37.6
(c) 37
(d) 37.25

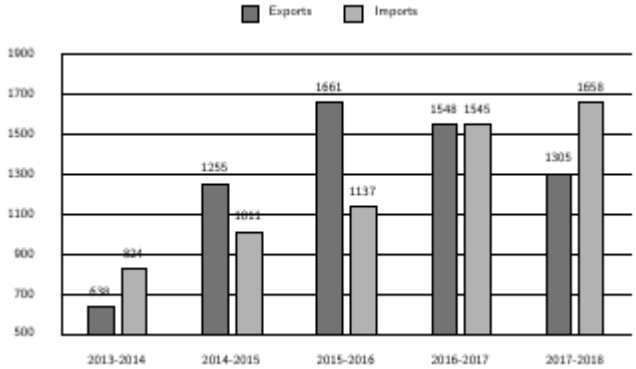
Q54. The ratio of the areas of two triangles ABC and PQR is 4 : 5 and the ratio of their heights is 5 : 3. The ratio of the bases of triangle ABC to that of triangle PQR is:

(a) 15 : 11
(b) 11 : 15
(c) 12 : 25
(d) 25 : 12

Q55. If $x = 2 - \sqrt{3}$ then the value of $x^3 - x^{(-3)}$ is:

(a) $30\sqrt{2}$
(b) $-30\sqrt{2}$
(c) $30\sqrt{3}$
(d) $-30\sqrt{3}$

Q56. The given Bar Graph presents the Imports and Exports of an item (in the house) manufactured by a company for the financial years, 2013-2014 to 2017-2018.



In which financial year, the absolute difference of the Exports to those of Imports is the lowest?

(a) 2014-2015
(b) 2015-2016
(c) 2016-2017
(d) 2013-2014

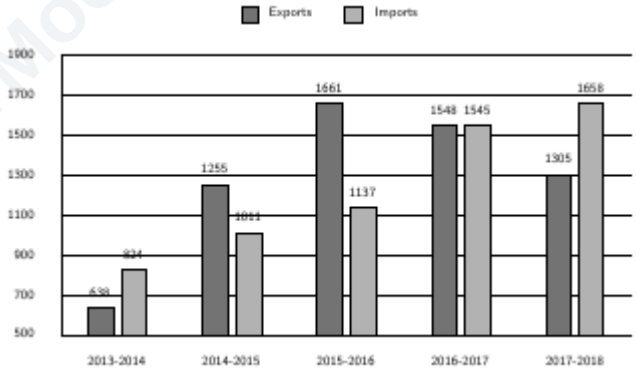
Q57. The ratio between the speeds of two trains is 5 : 7. If the first train covers 300 km in 3 hours, then the speed (in km/h) of the second train is:

(a) 150
(b) 140
(c) 100
(d) 120

Q58. Two students, A and B, appeared for an examination. A secured 8 marks more than B and the marks of the former was 55% of the sum of their marks. The marks obtained by A and B, respectively, are:

(a) 38, 30
(b) 40, 32
(c) 44, 36
(d) 36, 28

Q59. The given Bar Graph presents the Imports and Exports of an item (in-house) manufactured by a company for the financial years, 2013-2014 to 2017-2018.



What is the ratio of total Imports to total Exports during 2014-2015, 2015-2016 and 2016-2017?

(a) 4011 : 4175
(b) 4455 : 3644
(c) 4175 : 4011
(d) 3693 : 4464

Q60. A, B, and C can complete a piece of work in 4, 20, and 60 days respectively. Working together, they can complete one-third of the same work in how many days?

(a) 21/19
(b) 13/19
(c) 3/19
(d) 11/19

Q61. The simplified value of ((31/5 + 3/5) ÷ 8/5)/(11/7 ÷ {6/7 - (1/7 ÷ 1/5)})

(a) 19/8
(b) 19/7
(c) 19/16
(d) 19/64

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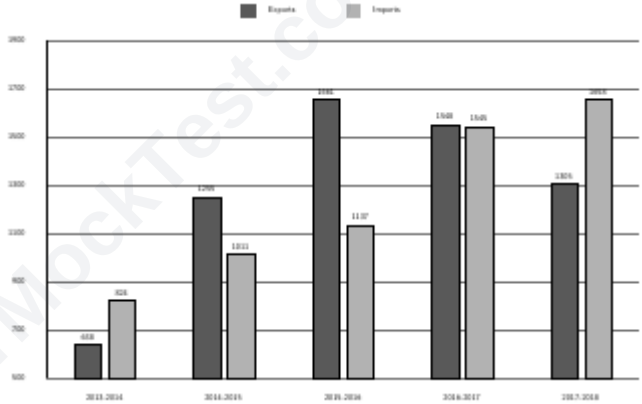
Q62. If x% of y is 150 and y% of z is 300, then the relation between x and z is:

(a) z = x
(b) z = x/3
(c) z = x/2
(d) z = 2x

Q63. In a ΔABC, the bisectors of angle B and angle C meet at point O within the triangle. O is the incentre of ΔABC. If angle A = 132°, then the measure of angle BOC is:

(a) 84°
(b) 156°
(c) 66°
(d) 132°

Q64. The given Bar Graph presents the Imports and exports of an item (in-house) manufactured by a company for the financial years, 2013-2014 to 2017-2018.



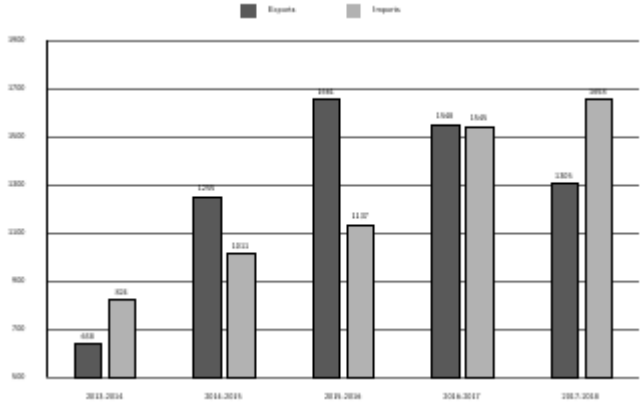
What is the average of the absolute difference between Export and Imports (in tonnes) during the five financial years?

(a) 262
(b) 260
(c) 256
(d) 264

Q65. If sec θ = 3x and tan θ = 3/x, (x ≠ 0) then the value of $9(x^2 - 1/x^2)$ is:

(a) 14
(b) 1
(c) 13
(d) 12

Q66. The given Bar Graph presents the Imports and exports of an item (in-house) manufactured by a company for the financial years, 2013-2014 to 2017-2018.



In which financial year the percentage increase in Imports and Exports taken together is the lowest in comparison to its previous financial year?

(a) 2017-2018
(b) 2015-2016
(c) 2016-2017
(d) 2014-2015

Q67. The average age of four brothers is 14 years. If their father is also included, the average is increased by 4 years. The age of the father (in years) is:
(a) 36
(b) 38
(c) 34
(d) 40

Q68. A person purchased a vehicle for Rs. 4,90,828 and sold it for Rs. 5,52,920. What is the percent profit earned on this vehicle (correct to two decimal places)?
(a) 15.51%
(b) 12.65%
(c) 19.55%
(d) 11.55%

Q69. In triangle ABC, the length of BC is less than twice length of AB by 3 cm. The length of AC exceeds the length of AB by 9 cm. The perimeter of triangle is 34 cm. The length (in cm) of the smallest side of the triangle is:
(a) 9
(b) 7
(c) 10
(d) 8

Q70. Two numbers are in the ratio of 7 : 5. On diminishing each of them by 40, the ratio becomes 27 : 17. The sum of the numbers is:
(a) 325
(b) 300
(c) 275
(d) 240

Q71. If 3^(cbrtx) + 4^(cbrtx) = 5^(cbrtx), then the value of x is:
(a) 2
(b) 1
(c) 8
(d) 4

Q72. If $(x + 7)^3 + (2x + 8)^3 + (2x + 3)^3 = 3 (x + 7) (2x + 8) (2x + 3)$, then what is the value of x?
(a) 3.6
(b) -3.6
(c) 2.4
(d) -2.4

Q73. If $[6(\sec^2 59° - \cot^2 31°)] – [(2/3)\sin 90°] – [3\tan^2 56° y \tan^2 34°] = y/3$, then the value of y is:
(a) 8/5
(b) -2/3
(c) -8/5
(d) 2/3

Q74. There was 25% off on the shirt. A lady bought a shirt and got an additional 20% discount for paying in cash and a further 10% discount for being a loyal customer. She paid Rs. 405. What was the price tag (in Rs.) on the shirt?
(a) 750
(b) 650
(c) 600

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(d) 725

Q75. The chord of the contact of tangents drawn from a point on the circle $x^2 + y^2 = a^2$ to the circle $x^2 + y^2 = b^2$ touches the circle $x^2 + y^2 = c^2$ such that b^p = a^mc^n, where m, n, p ε N, and m, n, p are prime to each other, then the value of m + n + p + 3 is:

(a) 2
(b) 6
(c) 5
(d) 7

GENERAL AWARENESS

Q76. Which of the following is a Floating National Park of India?

(a) Eravikulam
(b) Similipal
(c) Namdapha
(d) Keibul Lamjao

Q77. What is the amount of minimum assured monthly pension payable under the Pradhan Mantri Shram Yogi Maan-dhan (PM-SYM) scheme of the Government of India?

(a) Rs. 1000
(b) Rs. 2000
(c) Rs. 4000
(d) Rs. 3000

Q78. Which one of the following caves is situated in Maharashtra?

(a) Amarnath
(b) Badami
(c) Ellora
(d) Borra

Q79. With which of the following sports is the term 'Jab' associated?

(a) Boxing
(b) Cricket
(c) Basketball
(d) Billiards

Q80. Which of the following is waterfall is created by river Sharavathi the highest waterfall in India?

(a) Athirappilly Falls
(b) Jog Falls
(c) Dhuandhar Falls
(d) Dudhsagar Falls

Q81. _____ is the primary acid present in ripe bananas.

(a) Hydrochloric Acid
(b) Malic Acid
(c) Formic Acid
(d) Sulphuric Acid

Q82. Who presides over the joint sitting of the two Houses of Parliament?

(a) President
(b) Prime Minister
(c) The Speaker of the Lok Sabha
(d) The Vice President

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Q83. _____ from India won the girls' title at the IBSF World Under-16 Snooker Championships held in 2018.

(a) Vidya Pillai
(b) Varsha Sanjeev
(c) Keerthana Pandian
(d) Arantxa Sanchis

Q84. Light rays enter the eye through the outer, transparent structure at the front of the eye called the _____.

(a) Lens
(b) Cornea
(c) Optic nerve
(d) Iris

Q85. Who won the American Reality Show, 'The World's Best' 2019 for displaying his talent as a pianist?

(a) Anil Srinivasan
(b) Stephen Devassy
(c) Lydian Nadhaswaram
(d) Utsav Lal

Q86. The quorum to constitute a sitting of the Lok Sabha is _____ of the total number of Members of the House under article 100(3) of the Constitution of India.

(a) one-fifth
(b) half
(c) one-tenth
(d) one-third

Q87. Which one of the following cyclones hit India in the month of May 2019?

(a) Cyclone Gaja
(b) Cyclone Hudhud
(c) Cyclone Nargis
(d) Cyclone Fani

Q88. Devotional folk songs called 'Zikir' belong to the Indian state of:

(a) West Bengal
(b) Odisha
(c) Assam
(d) Uttar Pradesh

Q89. In 2019 who became the first Indian to win an election in Japan?

(a) Kishore Kafley
(b) Piyush Jindal
(c) Yogendra Puranik
(d) Charandeep Singh

Q90. What is the present Statutory Liquidity Ratio (SLR) announced by the Reserve Bank of India with effect from 1st January 2019?

(a) 19.75 per cent
(b) 19.50 per cent
(c) 19.25 per cent
(d) 19.00 per cent

Q91. In May 2019, Bengaluru-based medical doctor _____ was honored with the 'Global Asian of the Year Award 2018-2019' for her contributions to the ecosystem and women healthcare.

(a) Shashi Wadhwa
(b) Neelam Kler
(c) Hema Divakar

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(d) Indira Hinduja

Q92. Alexander invaded India in _____.

(a) 323 BC
(b) 467 BC
(c) 326 BC
(d) 454 BC

Q93. With which sport is the Indian player Neeraj Chopra associated?

(a) Boxing
(b) Javelin Throw
(c) Swimming
(d) Billiards

Q94. Paithani Saree belongs to the state of _____.

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

Q95. Konark Temple in Odisha was built by which of the following kings?

(a) Anantavarman Chodagangadeva
(b) Narasimha Deva I
(c) Ananga Bhima Deva
(d) Bhanu Deva

Q96. Which of the following lakes is the largest man-made lake in India?

(a) Dhebar Lake
(b) Rajsamand Lake
(c) Govind Vallabh Pant Sagar
(d) Maharana Pratap Sagar

Q97. Who developed the operating system Linux started as a project by a student of Finland?

(a) Barbara Liskov
(b) Leslie Lamport
(c) Leonard M. Adleman
(d) Linus Torvalds

Q98. Who is the author of the book 'Changing India'?

(a) A P J Abdul Kalam
(b) Shashi Tharoor
(c) Manmohan Singh
(d) Narendra Modi

Q99. Somatotropin' is another name for _____.

(a) Tear gas
(b) Growth hormone
(c) Digestive juice
(d) Laughing gas

Q100. In 1991, India's first indigenous supercomputer named _____ was developed by Vijay Bhatkar.

(a) Param 8000
(b) Pragati 5000
(c) Prayog 2000
(d) Prayas 3000

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) reproach

• The correct answer is Option 3.

• The meaning of the given words:

• Reprimand: A severe, formal, or official reproof.

• Reward: Something of value given in return for an act.

• Eradicate: To destroy completely by the roots.

• Reproach: A rebuke, A harsh criticism.

• Applaud: Praise publicly by clapping or other means.

• Therefore, out of given alternatives, the word 'reproach' gives the similar meaning as the given word.

Q2. Answer: (b) precedent

• The correct answer is Option 2 'precedent' which means 'An act in the past which may be used as an example to help decide the outcome of similar instances in the future' gives the same meaning as the given group of words.

• The meaning of other words:

• Precursor: A forerunner or indicator of approaching events.

• President: The head of state of a public.

• Predecessor: one who has preceded another in any state.

Q3. Answer: (b) gaiety

The correct answer is Option 2.

The meaning of the correctly spelt word 'gaiety' is 'The state of being happy or merry.'

Q4. Answer: (c) My grandmother said that she had borne six children.

• The correct answer is Option 3.

• The given sentence is in the past indefinite tense. When changing from direct to indirect, past indefinite tense changes to the past perfect tense. The structure of the past indefinite tense is 'subject + had + v3'.

• Therefore, the structure is correctly followed by option 3 'My grandmother said that she had borne six children.'

Here, verb Bear means 'to give birth' and 'bore' and 'borne' are its 'past' and 'past particle' forms respectively.

Q5. Answer: (c) recognised by its

• The correct answer is Option 3.

• The rule is that 'can be' is always followed by V3. Therefore, 'recognise' should be replaced by 'recognised'.

• The correct preposition to be used n the given sentence is 'by' which is used to indicate the person that does something in a passive voice sentence.

• Therefore, the correct sentence is 'The shoebill stork can be recognised by its long legs and broad wings.'

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Q6. Answer: (d) have been

• The correct answer is Option 4.

• The error lies in the wrong usage of the subject-verb agreement.

• Here, the verb 'have' is followed by the subject 'each' & not 'pictures'. The subject 'each' is singular, the verb should also be singular. So, replace 'have' by 'has'.

• Therefore, the correct sentence is 'Each of the pictures has been signed by the football star.'

Q7. Answer: (b) investor

• The correct answer is Option 2.

• The word 'entrepreneur' means 'a businessman'.

• The correct word that fits in the blank is 'investor' as the businessman will obviously look for an investor which means 'a person who invests money in order to make profit'.

Q8. Answer: (c) DACB

• The correct answer is Option 3.

• The correct answer begins with sentence D because in sentence D, a question is raised and in all other sentences explanation to that question is being given. Sentence D is asking how people brushed their teeth before inventing the toothbrush.

• Sentence A & C make the paired sentences as sentence A is answering people used thin twigs to brush their teeth which is continued by sentence C with the pronoun 'these' which is referring to the thin twigs.

• Therefore, this correct sequence is followed by option 3 'DACB'.

Q9. Answer: (b) accelarate

• The correct answer is Option 2.

• The correct spelling is 'accelerate' which means 'to cause to move faster'.

• The meaning of other words:

• Accumulate: To heap up in a mass, to collect or bring together.

• Accomplice: An associate in the commission of a crime.

• Accommodate: to render fit, suitable, to bring about harmony.

Q10. Answer: (b) The teenager was caught shoplifting by the store manager.

• The correct answer is Option 2.

• While converting the active sentence into passive, subject and object interchange their places.

• The given sentence is in past indefinite tense, so in its passive form we use 'was/were + V3'.

• Therefore, the condition is correctly followed by option 2 'The teenager was caught shoplifting by the store manager'.

Q11. Answer: (a) Stoic

The correct answer is option 1) i.e. stoic.

• stoic: One who is indifferent to pleasure or pain.

• wise: having or showing experience, knowledge, and good judgement.

• brave: showing courage.

• temperate: showing moderation or self-restraint.

Q12. Answer: (b) BADC

The correct answer is option 2) i.e. BADC.

• The only independent sentence from the given sentences is the sentence 'B'. Hence, it will be the first sentence.

• Sentence 'D' cannot follow the sentence 'B' because in the sentence 'D' the pronoun 'his' has been used.

• 'HIs' has been used for the noun 'father' which is used in the sentence 'A'.

• Hence, sentence 'D' will follow the sentence 'A'. So, the correct sequence is 'BAD'.

• So, the correct sequence is 'BADC'.

Q13. Answer: (a) maintains

The correct answer is option 1) i.e. maintains.

• The word 'genealogist' means a person who traces or studies lines of family descent.

• The blank needs a word that can define the work of a genealogist, hence, maintains is the correct word to be used in the blank.

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Q14. Answer: (a) quite

The correct answer is option 1) i.e. quite.

• The given blank needs an adverb to qualify the adverb 'seriously'.

• From the given options 'quite' is the only word that fits in the context of the given sentence, hence, it will be used in the given blank.

• Quite means absolutely; completely.

Q15. Answer: (c) messages

The correct answer is option 3) i.e. messages.

• The given blank needs a word that means similar to inform because the grandmother informs everyone whenever something happens.

• So, from the given options 'messages' is the only word that can fit in the context of the given sentence, hence, it will be used here.

Q16. Answer: (a) occurs

The correct answer is option 1) i.e. occurs.

• The given sentence talks about an event and we use words like happen, occur with 'event' to refer to an event.

• Hence, 'occurs' is the only word that can be used here.

Q17. Answer: (c) demise

The correct answer is option 3) i.e. demise.

• At the beginning of the passage, it has been given that the grandmother keeps a record of births, deaths, marriages, etc.

• From the given options 'demise' is the only word that can be used here because demise means death. And fits in the context of the given passage.

• Moreover, in the last sentence of the passage a word 'bequeathed' has been used which means leave (property) to a person or other beneficiary by a will.

• By this word we can infer that someone has died and left his property for someone else. Hence, demise is the most appropriate word to be used here.

Q18. Answer: (b) dirty

The correct answer is option 2) i.e. dirty.

Sordid: dirty and unpleasant:. Hence, dirty is the most appropriate synonym of the given word.

e.g-There are lots of really sordid apartments in the city's poorer areas.

• Pure: free of any contamination.

• Clean: free from dirt, marks, or stains.

• Solid: firm and stable in shape

Q19. Answer: (b) leaves were fallen

The correct answer is option 2) i.e. leaves were fallen.

• The given sentence is in the active voice, hence, 'were+v3' cannot be used in this sentence.

• So, we will use 'were+v1+ing' which makes the sentence in continuous form.

• The process of falling of leaves is a continuous process, hence, past continuous tense will be used in the given sentence.

• So, the correct sentence will be: It was a windy autumn day and leaves were falling rapidly from the trees.

Q20. Answer: (a) have had a terrible cold for

The correct answer is option 1) i.e. have had a terrible cold for.

• The given sentence refers to something being happening for some period of time.

• So, we have to use either present perfect or present perfect continuous tense.

• From the given options only option 1 is suitable for the given sentence and it will be used here.

• So, the correct sentence will be: I have had a terrible cold for several days now.

Q21. Answer: (c) bliss

The correct answer is option 3) i.e. bliss.

• misery: a state or feeling of great physical or mental distress or discomfort.

• bliss: perfect happiness, great joy, hence, this is the most appropriate antonym of the given word.

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• censure: express severe disapproval of someone or something.
• poverty: the state of being extremely poor.
• dearth: a scarcity or lack of something.

Q22. Answer: (d) Gentle

The correct answer is option 4) i.e. gentle.

ferocious: savagely fierce, cruel, or violent.

gentle: having or showing a mild, kind, or tender temperament or character.

prudent: careful and avoiding risks/ showing good judgment in avoiding risks and uncertainties; careful cunning: skill in achieving one's ends by deceit.

fierce: having or displaying an intense or ferocious aggressiveness.

Q23. Answer: (b) face the criticism

The solution is in Hindi. Read it online.

Q24. Answer: (b) to be very busy

The correct answer is option 2) i.e. to be very busy.
• Have one's hands full: have as much work as one can do.
• E.g. He already has his hands full with two kids and a full-time job, yet he still makes time to volunteer.

Q25. Answer: (b) Synchronized

The correct answer is option 2) i.e. synchronized.
• synchronize means cause to occur or operate at the same time.
• In the given sentence the soldiers need to attack at the same time, hence, synchronized is the most appropriate word to use in the given blank.

Q26. Answer: (d) 5, 1, 3, 4, 2

The correct meaningful logical order is
5. Switch on television
1. Television audio defect
3. Contact mechanic
4. Television repair done
2. Restart enjoying
Hence, the correct order is "5, 1, 3, 4, 2".

Q27. Answer: (c) 45

Let A have x rupees, and C have y rupees.
A takes 12 rupees from C
now A have total amount =
x + 12 …..(i)
and
y - 12
A has an equal amount as B has,
A = B
A + B = 102
From equation 2
x + 12 + x = 102
2x + 12 = 102
2x = 102 – 12
X = 45
Hence, A has total amount of 45 rupees.

Q28. Answer: (b) (66, 48, 57)

The logic followed here is:
(1^(st)Term + 2^(nd) Term) ÷ 2 = 3^(rd)Term

add first and second number

88 + 56 = 144, 144 ÷ 2 = 72

72, which equals to the third number

Similarly,

(66, 48, 57)

add first and second number

66 + 48 = 114, 114 ÷ 2 = 57

Hence, option 2 is the correct answer.

Q29. Answer: (a) [figure]

The pattern followed is,

Lines are changing place in a clockwise direction at the edges of the square box with the addition of one line in every step.

The circular figure which is given in the square box once empty circular figure and second filled with dark and so on moving alternatively. The circular Figure is moving at the corner of the square box figure.

Complete series will be,

Hence, in this way, the next figure would be option 1.

Q30. Answer: (d) 7 : 343

The pattern followed here is,

$2 \rightarrow 2^3 = 8$

Similarly,

$7 \rightarrow 7^3 = 343$

Hence, 7 : 343 is the correct answer.

Q31. Answer: (c) 127

Here,

All the given numbers are non-prime numbers except 127.

Hence, 127 is the correct answer.

Q32. Answer: (a) [figure]

Both Iron and Mercury are Metals

Hence, the figure in option 1 shows a definite relation.

Q33. Answer: (d) 2

From dice one and two the common number is 3, while rotating either clockwise or anti-clockwise from the number three, number three follows three which means the number left in the dice is 2 which is opposite to the number 3.

Opposite pairs are:

3 – 2

1 – 4

5 – 6

Hence, the number opposite to 3 is 2.

Q34. Answer: (c) EKNGGUP

Add + 2 in all letters to get the code of the given word

Similarly,

Hence, the code for LICENSE is EKNGGUP.

Q35. Answer: (c) Only conclusions II and III follow.

The least possible Venn diagram is:

Conclusions:

I. Some chocolates are ice-creams → False

II. Some juices are ice-creams → True

III. No ice-cream is chocolate → True

Hence, Only conclusion II and III follows

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Q36. Answer: (b) AFIM

The pattern followed here is,

Hence, AFIM different from the other words.

Q37. Answer: (d) × and –

211 × 14 + 627 ÷ 33 – 17 = 520

Option 1: (+ and ÷)

211 × 14 ÷ 627 + 33 – 17

By solving according to BODMAS

4,71 + 33 - 17 ≠ 520

Option 2: (÷ and ×)

211 ÷ 14 + 627 × 33 – 17

By solving according to BODMAS

15.071 + 627 × 33 -17

15.071 + 20691 - 17 ≠ 520

Option 3: (+ and -)

211 × 14 - 627 ÷ 33 + 17

By solving according to BODMAS

211 × 14 - 19 + 17

2954 - 2 ≠ 520

Option 4: (× and -)

211 – 14 + 627 ÷ 33 × 17

By solving according to BODMAS

211 – 14 + 19 × 17

211 – 14 + 323

211 + 323 – 14

534 – 14 =520

Hence, the changing × by - will make the equation correct.

Q38. Answer: (c) pfbxccqpc

Divide the equation with 4 elements in each group, which makes it easier to solve.

xqpf/mccb/xqpf/mccb/xqpf/mccb

Hence, pfbxccqpc is the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

Q39. Answer: (c) 118

The pattern followed here is,

$32 – 28 = 4 = 2^2$

$41 – 32 = 9 = 3^2$

$57 – 41 = 16 = 4^2$

$82 – 57 = 25 = 5^2$

Similarly, the next word would be square of 6

82 + 36 = 118

118 – 82 = 36

Hence, the next number is 118.

Q40. Answer: (c) [figure]

Diagram after folding at dotted line,

Hence, the correct answer is option 3.

Q41. Answer: (a) [figure]

Given figure is embedded in,

Hence, the correct answer is option 1.

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Q42. Answer: (d) Carpenter : Furniture

An architect is the one who creates House Map.

Similarly,

The Carpenter is the one who creates Furniture.

Hence, the correct answer is Carpenter: Furniture.

Q43. Answer: (d) XZZC

The pattern followed here is,

Similarly,

Hence, the code for UCWF is XZZC

Q44. Answer: (c) Diagram

Triangle, rectangle, Circle are the name of the shape.

while “diagram” means showing or representing the structure of anything.

Hence, Diagram is the correct answer.

Q45. Answer: (a) 30

Total triangles are:

ΔABC, ΔAIC, ΔAIB, ΔABD, ΔACD, ΔADE, ΔBCD, ΔBID, ΔBJD, ΔBJE, ΔBDE, ΔBEF, ΔBDF, ΔCBF, ΔCID, ΔCDH, ΔCDM, ΔCBH, ΔDJF, ΔDEF, ΔDEG, ΔDMH, ΔDOK, ΔDNL, ΔDKP, ΔDLQ, ΔDOP, ΔDNQ, ΔEFG, ΔEJF.

Hence, there are 30 triangles in the given figure.

Q46. Answer: (b) [figure]

The mirror image is

Hence, the correct answer is option 2.

Q47. Answer: (a) (49, 64, 81)

Logic followed here is,

Set (4, 9, 16)

$2^{--2} = 4$

$3^2 = 9$

$4^2 = 16$

Similarly,

set (49, 64, 81)

$7^2 = 49$

$8^2 = 64$

$9^2 = 81$

Hence, option 1 is correct answer.

Q48. Answer: (c) Maternal grandfather or maternal grandmother

Statement: F × R × S ÷ G – P ÷ X

Decoding: F × R means F is the sister of R.

R × S means R is the sister of S.

S ÷ G means S is daughter of G.

G – P means G is the husband of P.

P ÷ X means P is daughter of X.

Hence, X is the maternal grandfather or materal grandmother of R.

Q49. Answer: (c) Car

Diabetes is kind of Disease,

In the same way Car is kind of Vehicle.

Hence, Car is the correct answer.

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Q50. Answer: (c) 141259414

Here, finding the positional value of each letter, then adding the digits of that positional value we will get the given code.

LUCRATIVE

L = 12 = 1 + 2 = 3

U = 21 = 2 + 1 = 3

C = 03 = 0 + 3 = 3

R = 18 = 1 + 8 = 9

A = 01 = 0 + 1 = 1

T = 20 = 2 + 0 = 2

I = 09 = 0 + 9 = 9

V = 22 = 2 + 2 = 4

E = 05 = 0 + 5 = 5

similarly,

A = 01 = 0 + 1 = 1

M = 13 = 1 + 3 = 4

S = 19 = 1 + 9 = 10

T = 20 = 2 + 0 = 20

E = 05 = 0 + 5 = 5

R = 18 = 1 + 8 = 9

D = 04 = 0 + 4 = 4

A = 01 = 0 + 1 = 1

M = 13 = 1 + 3 = 4

Hence, the code for AMSTERDAM is 141259414.

Q51. Answer: (b) 40

Calculation:

If a number is divisible by 88 then it must be divisible by 8 × 11

When a number is divisible by 88 then its last three digits are also divisible by 8

Therefore 8y2 is divisible by y when y = 3

When a number is divisible by 11 then difference of its sum of the alternate numbers will be zero or multiple of 11

The number 1230x558y2 = 1230x55832 will be divisible by zero

When

(1 + 3 + x + 5 + 3) - (2 + 0 + 5 + 8 + 2) = 0 or multiple of 11

=> (12 + x) – (17) = 0 or 11

Therefore Possible value of x = 5

Now

5x + 5y = 5 × 5 + 5 × 3 = 25 + 15 = 40

Q52. Answer: (d) 10

Calculation:

cos x = -1/2 = cos 240°

Therefore x = 240°

$2\tan^2 x + 3\text{cosec}^2 x = 2\tan^2 240° + 3\text{cosec}^2 240° = 2\tan^2(180° + 60°) + 3\text{cosec}^2(180° + 60°)$

$\Rightarrow 2\tan^2 60° + 3\text{cosec}^2 60° = 2 \times 3 + 3 \times (4/3) = 6 + 4 = 10$

Alternate Solution:

In ΔABC,

cos x = -1/2 = AB/BC

$AC^2 = BC^2 + AB^2$

=> AC2 = 22 - 12

=> AC = √3

Given π < x < 3π/2

Only tan is positive in the third quadrant.

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=> tanx = √3/1 = √3

=> cosecs = - 2/√3

2 tan2x + 3 cosec2x

=> 2 × (√3)2 + 3 × (- 2/√3)2

=> 6 + 4 = 10

Q53. Answer: (b) 37.6

Calculation:

Two tangents drawn from the same external point is equal in length

Therefore AP = AR = 6.1 cm

BP = BQ = 5.4 cm

CQ = CR = 7.3 cm

Therefore Perimeter of triangle = 6.1 + 6.1 + 5.4 + 5.4 + 7.3 + 7.3

= 37.6 cm

Q54. Answer: (c) 12 : 25

Calculation:

Let h1 and h2 be the height of triangles ABC and PQR and b1 and b2 be the base of triangles ABC and PQR

Given

h1 = 5 and h2 = 3

(Area of triangle ABC)/(Area of triangle PQR) = (1/2 base × height)/(1/2base × height)

=> 4/5 = (1/2 × b1 × h1)/(1/2 × b2 × h2)

=> 4/5 = (b1 × 5)/(b2 × 3)

Therefore b1/b2 = 12/25

Q55. Answer: (d) -30√3

Short Trick:

If x - 1/x = a

=> x3- 1/x3 = a³+ 3a

x - 1/x = -2√3

=> x3- 1/x3 = (-2√3)3 + 3(-2√3) = -30√3

Detailed Solution:

Given

x = 2 - √3

1/x = 1/(2 - √3) = 2 + √3

=> (x – 1/x) = 2 - √3 - (2 + √3) = -2√3

Cubing both sides:

x³- 1/x³ – 3(x – 1/x) = (-2√3)³

=> x³- 1/x³ – 3 × (-2√3) = -24√3

=> x³- 1/x³ = -24√3 - 6√3

Therefore x³ – x^(-3)= -30√3

Q56. Answer: (c) 2016-2017

Calculation:

Difference of exports and imports in 2013-2014 = 824 – 638 = 186

Difference of exports and imports in 2014-2015 = 1255 – 1011 = 244

Difference of exports and imports in 2015-2016 = 1661 – 1137 = 524

Difference of exports and imports in 2016-2017 = 1548 – 1545 = 3

Therefore The financial year in which the absolute difference of the Exports to those of Imports is the lowest = 2016-2017

Q57. Answer: (b) 140

Given:

d1 = 300 km, t1 = 3 hr

Concept:

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The ratio between the speeds of two trains is 5 : 7.
Let the speed of two trains be 5x and 7x
We know that, speed=distance/time
Calculation:
Speed of first train (S1) = 300/3 = 100 km/hr
=> 5x = 100
=> x = 20
Therefore Speed of second train = 7x = 7 × 20 = 140 km/h

Q58. Answer: (c) 44, 36

Calculation:
Let marks of B be x
Therefore Marks of A be x + 8
Now
According to question
(x + 8)/(x + x + 8) = 55/100
=> (x + 8)/(2x + 8) = 11/20
=> 20x + 160 = 22x + 88
=> 2x = 160 – 88 = 72
=> x = 36
Therefore Marks of A = x + 8 = 36 + 8 = 44
And marks of B = x = 36

Q59. Answer: (d) 3693 : 4464

Calculation:
Total imports during 2014-2015, 2015-2016, and 2016-2017 = 1011 + 1137 + 1545 = 3693
Total exports during 2014-2015, 2015-2016, and 2016-2017 = 1255 + 1661 + 1548 = 4464
Therefore Required ratio = 3693: 4464

Q60. Answer: (d) 11/19

Calculation:
Time is taken by A to complete the work = 4 days
Time is taken by B to complete the work = 20 days
Time is taken by C to complete the work = 60 days
Total work = (LCM of 4, 20, and 60) = 60 units
The efficiency of A in 1 day = 60/4 = 15
The efficiency of B in 1 day = 60/20 = 3
The efficiency of C in 1 day = 60/60 = 1
1/3 of total work = 60 × 1/3 = 20
Efficiency of A, B and C together = 15 + 3 + 1 = 19
Together they can complete one-third of the same work = 20/19 = 11/19 days

Q61. Answer: (d) 19/64

Calculation:
((3(1)/5 + 3/5) ÷ 8/5)/(11/(7) ÷ {6/7 - (1/7 ÷ 1/5)})
=> ((16/5 + 3/5) ÷ 8/5)/(8/7 ÷ {6/7 - (1/7 ÷ 1/5)})
=> (19/5 × 5/8)/(8/7 ÷ {6/7 - (1/7 × 5/1)})
=> (19/8)/(8/7 ÷ {6/7 - 5/7}) = (19/8)/(8/7 ÷ 1/7) = (19/8)/(8/7 × 7/1) = (19/8)/(8/1) = 19/8 × 1/8 = 19/64

Q62. Answer: (d) z = 2x

Shortcut Trick
Divide the two given conditions to directly eliminate the common term 'y':
(y% of z) ÷ (x% of y) = 300 ÷ 150
=> (y × z) ÷ (x × y) = 2

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=> z ÷ x = 2 => z = 2x

Therefore The correct answer is z = 2x.

Alternate Method

Given:

x% of y = 150

y% of z = 300

Formula Used:

a% of b = (a × b) ÷ 100

x% of y = 150 xy = 15000 y% of z = 300 yz = 30000 Divide z ÷ x = 30000 ÷ 15000 = 2

Calculations:

=> x% of y = 150

=> (x ÷ 100) × y = 150

=> xy = 15000 ... (1)

=> y% of z = 300

=> (y ÷ 100) × z = 300

=> yz = 30000 ... (2)

=> Dividing Equation (2) by Equation (1):

=> (yz) ÷ (xy) = 30000 ÷ 15000

=> z ÷ x = 2

=> z = 2x

Therefore The correct answer is z = 2x.

Additional Information

Interchangeability of Percentages

An important fundamental property of percentages is that a% of b is mathematically identical to b% of a. Both evaluate directly to (a × b) ÷ 100.

Ratio Comparison Method

When solving algebraic equations with multiple variables where one variable acts as a common link (such as 'y' in xy and yz), dividing the two equations yields the most direct ratio of the remaining isolated variables.

Percentage Change Rule

To calculate the net percentage by which a base quantity A is more or less than B, always apply the base formula: [(A − B) ÷ B] × 100.

Q63. Answer: (b) 156°

Calculation:

We know that

When O is the incentre of ΔABC.

Then angle BOC = 90° + angle A/2

=> angle BOC = 90° + 132°/2 = 90° + 66°

Therefore angle BOC = 156°

Q64. Answer: (a) 262

Calculation:

Difference of exports and imports in 2013-2014 = 824 – 638 = 186

Difference of exports and imports in 2014-2015 = 1255 – 1011 = 244

Difference between exports and imports in 2015-2016 = 1661 – 1137 = 524

Difference of exports and imports in 2016-2017 = 1548 – 1545 = 3

Difference of exports and imports in 2017-2018 = 1658 – 1305 = 353

Total =186 + 244 + 524 + 3 + 353 = 1310

Average = 1310/5 = 262

Q65. Answer: (b) 1

Calculation:

sec θ = 3x => $sec^2\theta = 9x^2$

$\tan \theta = 3/x \Rightarrow \tan^2\theta = 9/x^2$

Now

$\sec^2\theta - \tan^2\theta = 9x^2 – 9/x^2$

$\Rightarrow 1 = 9(x^2 – 1/x^2)$

Therefore $9(x^2 – 1/x^2) = 1$

Q66. Answer: (c) 2016-2017

Calculation:

Total imports and exports in 2013-2014 = 638 + 824 = 1462

Total imports and exports in 2014-2015 = 1255 + 1011 = 2266

Increase = 2266 – 1462 = 804

Percentage increase = (804/1462) × 100 = 54.99 ≈ 55%

Total imports and exports in 2014-2015 = 1255 + 1011 = 2266

Total imports and exports in 2015-2016 = 1661 + 1137 = 2798

Increase = 2798 – 2266 = 532

Percentage increase = (532/2266) × 100 = 23.47%

Total imports and exports in 2015-2016 = 1661 + 1137 = 2798

Total imports and exports in 2016-2017 = 1548 + 1545 = 3093

Increase = 3093 – 2798 = 295

Percentage increase = (295/2798) × 100 = 10.54%

Total imports and exports in 2016-2017 = 1548 + 1545 = 3093

Total imports and exports in 2017-2018 = 1305 + 1658 = 2963

It is clear that in years 2017-2018 compared to the previous year the total number of imports and exports are decreased

Therefore The financial year in which the percentage increase in Imports and Exports taken together is the lowest in comparison to its previous financial year = 2016-2017

Q67. Answer: (c) 34

Calculation:

Average of four brothers = 14

Total age of four brothers = 14 × 4 = 56

After including father

New average = 14 + 4 = 18

Total age of four brothers and father = 18 × 5 = 90

Therefore Age of father = 90 – 56 = 34

Q68. Answer: (b) 12.65%

Calculation:

CP = 4,90,828

SP = 5,52,920

Profit = 5,52,920 – 4,90,828 = 62092

Profit percentage = (62092/490828) × 100 = 12.65%

Q69. Answer: (b) 7

Calculation:

Let AB = x cm

Therefore BC = (2x – 3) cm

And AC = (x + 9) cm

The perimeter of triangle ABC = 34

$\Rightarrow x + 2x – 3 + x + 9 = 34$

$\Rightarrow 4x + 6 = 34$

$\Rightarrow 4x = 28$

$\Rightarrow x = 7$

Therefore Smallest side of the triangle = x = 7 cm

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Q70. Answer: (b) 300

Short Trick:

Therefore The sum of numbers = (35 + 25) × 5 = 300

Detailed Solution:

Let the two numbers be 7x and 5x

According to the question

(7x – 40)/(5x – 40) = 27/17

=> 119x – 680 = 135x – 1080

=> 135x – 119x = 1080 – 680

=> 16x = 400

=> x = 25

Therefore The sum of the numbers = 7x + 5x = 12x = 12 × 25 = 300

Q71. Answer: (c) 8

Given

3^(cbrtx) + 4^(cbrtx) = 5^(cbrtx)

Put x = 8

3^(cbrt8) + 4^(cbrt8) = 5^(cbrt8)

=> 3^2 + 4^(2 =) 5^2

=> 9 + 16 = 25

=> 25 = 25

Therefore x = 8

Q72. Answer: (b) -3.6

Calculation:

$(x + 7)^3 + (2x + 8)^3 + (2x + 3)^3 = 3 (x + 7) (2x + 8) (2x + 3)$

=> $(x + 7)^3 + (2x + 8)^3 + (2x + 3)^3 - 3 (x + 7) (2x + 8) (2x + 3) = 0$

We know that if $a^3 + b^3 + c^3 – 3$ abc = 0 then a + b + c = 0

Therefore (x + 7) + (2x + 8) + (2x + 3) = 0

=> 5x + 18 = 0

=> 5x = -18

Therefore x = -3.6

Q73. Answer: (a) 8/5

Calculation:

[6($sec^2$59° - $cot^2$31°)] – [(2/3)sin 90°] – [3$tan^2$56°y$tan^2$34°] = y/3

=> [6($sec^2$59° - cot^2(90° - 59°)] – [(2/3)sin 90°] – [3$tan^2$56° y tan^2(90° - 56°)] = y/3

Because cot (90 - x) = tanx, tan (90 - x) = cotx

=> [6($sec^2$59° - $tan^2$59°)] – [(2/3) × 1] – [3 × y × $tan^2$56°$cot^2$56°] = y/3

Because sec2x = 1 + tan2x

=> [6 × 1] – [2/3] – 3y = y/3

=> 6 – (2/3) = (y/3) + 3y

=> 16/3 = 10y/3

=> 16 = 10y

Therefore y = 8/5

Q74. Answer: (a) 750

Calculation:

Let the price tag be P

According to question

P × 75/100 × 80/100 × 90/100 = 405

=> P = 750

Therefore Price tag = 750 rupees

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Q75. Answer: (d) 7

Calculation:

Let there is a point P(h, k) on the circle x2 + y2 = a2.

(h, k) will satisfy the equation x2 + y2 = a2.

=> h2 + k2 = a2

The equation of the chord of the contact of tangents drawn from the point P(h, k) to the circle x2 + y2 = b2 will be

hx + ky = b2

The perpendicular distance of this tangent from the center of the circle x2 + y2 = c2 will be equal to the radius of the circle.

=> $|(-b^2)/(\sqrt{(h^2+k^2)})| = c$

=> $|(-b^2)/a| = c$

=> $b^2 = ac$

Comparing it with bp = amcn

=> p = 2, m = n = 1

Therefore m + n + p + 3 = 1 + 1 + 2 + 3 = 7

Q76. Answer: (d) Keibul Lamjao

- Keibul Lamjao National Park is the only floating National Park in the world.
- It is the home of the brow-antlered deer which is one of the most endangered deer in the world.
- It is located in the Bishnupur district of Manipur in India.
- It is an integral part of Loktak Lake.

Name of the state	National Park
Kerala	Eravikulam
Odisha	Similipal
Arunachal Pradesh	Namdapha
Manipur	Keibul Lamjao

Q77. Answer: (d) Rs. 3000

Correct Answer is D i.e. 3000

Pradhan Mantri Shram Yogi Maan-Dhan Yojana

- This scheme was announced in the interim Budget 2019-2020
- It is the central government scheme which is meant for old age protection and social security of Unorganised Workers
- The scheme will be administered by the Ministry of Labour and Employment and implemented through LIC and CSC e-Governance Services India Limited (CSC SPV).
- LIC will be the pension fund manager and responsible for pension payout.

Eligibility Criteria:

- Person Should be an unorganized worker.
- A person can enter into the scheme between the age of 18 to 40 years
- Monthly Income must be less than or equal to 15000.

Benefits:

- A person will get a minimum assured pension of Rs 3000/- per month after attaining the age of 60 years.
- If the subscriber dies, the spouse of the beneficiary shall be entitled to receive 50% of the pension as a family pension.

Contribution:

- If the person enters at the age of 18 years then he will have to contribute Rs 55 per month.
- If the person enters at the age of 20 years then he will have to contribute Rs 61 per month.
- If the person enters at the age of 40 years then he will have to contribute Rs 200 per month.
- Equal Contribution will be made by the government.

Q78. Answer: (c) Ellora

- Ellora caves are located in the Aurangabad district of Maharashtra.
- It is a UNESCO World Heritage Site.
- It is one of the largest rock-cut monastery-temple cave complexes in the world which feature Buddhist, Hindu and Jain

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monuments.

Name of the cave	State in which they are located
Amarnath	Jammu and Kashmir
Badami	Karnataka
Ellora	Maharashtra
Borra	Andhra Pradesh

Q79. Answer: (a) Boxing

The correct answer is option 1 i.e Boxing.

Key Points

• Jab: It is a quick punch with the leading hand, straight from the chin to the target.

• Fighters use the jab to earn points.

• Some other terms associated with Boxing are Hook, Punch, Knock-out, Uppercut, Kidney Punch.

• Governing Body of Boxing in India: Indian Boxing Federation

• Headquarters: New Delhi

Name of the sport	Terminology related to sports
Football	Banana Kick, Head, Penalty kick, Dribble, Offside, Hattrick, Foul, Left out, Goal, Right out, Stopper, Defender, Move, Pass, Comer, kick, Baseline, Rebound.
Baseball	Pitcher, Diamond, Pinching, Bunting Home run, Base runner, Throw, Perfect game, Strike, Put out.
Boxing	Knock out, Jab, Round, Hook, Punch, Uppercut, Kidney punch, Timing, Footwork.
Tennis	Service, Grandslam, Deuce, Advantage, Game Point, Breakpoint, Smash, Shot, Break, Grass Court, Drop shot, Netplay, Baseline, etc.

Q80. Answer: (b) Jog Falls

The correct answer is Jog Falls.

Key Points

Waterfall name	River	State
Athirappilly Falls	Chalakudy River	Kerala
Jog Falls	Sharavathi	Karnataka
Dhuandhar Falls	Narmada	Madhya Pradesh
Dudhsagar Falls	Mandovi	Goa

Q81. Answer: (b) Malic Acid

The correct answer is Malic Acid.

Malic Acid is present in ripe bananas.

• Chemical Name - 2-hydroxy dicarboxylic acid

Name of the Acid	Mainly found in
Hydrochloric Acid	The acid produced in the digestive systems of most animal species, including humans.
Malic Acid	Ripe Bananas
Formic Acid	Found in the stings and bites of many insects like bees and ant

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Q82. Answer: (c) The Speaker of the Lok Sabha

The correct answer is option 3 i.e The Speaker of the Lok Sabha

• The joint sitting of the Parliament is called by the President and is presided over by the Speaker or, in his absence, by the Deputy Speaker of the Lok Sabha or in his absence, the Deputy-Chairman of the Rajya Sabha.

Speaker of Lok Sabha:

• The speaker is elected in the first meeting of the Lok Sabha following general elections.

• Service term is 5 years or during the life of Lok Sabha

• The Speaker can be removed by following the conditions listed in articles 94 and 96.

• The First Speaker of Lok Sabha is Ganesh Vasudev Mavalankar

• The Current Speaker of Lok Sabha is Om Birla.

Q83. Answer: (c) Keerthana Pandian

The correct answer is option 3 i.e Keerthana Pandian.

• Keethana Pandian won the Gold Medal at the IBSF World Under-16 Snooker Championships Held in 2018.

• She defeated Belarus Albina Leschuk (Russia) by 3-1.

• The event was held at St. Petersburg, Russia.

• In Men's Category Ben Martens from Belgium won the Gold Medal.

• Governing Body in India: The Billiards and Snooker Federation of India (BSFI)

• Headquarters: Bengaluru.

• President: M.C Uthappa

Q84. Answer: (b) Cornea

Concept:

• Cornea: It is the transparent front part of the eye that covers the iris, pupil, and anterior chamber. The cornea, with the anterior chamber and lens, refracts light.

• Optical Nerve: The optic nerve connects the eye to the brain. The optic nerve carries the impulses which are formed by the retina.

• Iris: The iris is a thin, circular structure in the eye, responsible for controlling the diameter and size of the pupil and thus the amount of light reaching the retina. Eye colour is defined by that of the iris.

Explanation:

From the above explanation, we can see that,

The light rays enter the eye through the outer, transparent structure at the front of the eye called Cornea.

Additional Information

• Different parts of the eyes and their functions are shown in the table:

Name of the Part	Characteristics	Function
Eye Lens	transparent, biconvex structure in the eye	provides finer adjustment required to focus objects on the retina
Iris	The dark muscular diaphragm between the cornea and the lens	controls the size of the pupil
Pupil	An opening between the iris through which light enters the eye	regulates the amount of light entering the eye
Ciliary Muscles	Attached to the eye lens	hold the lens in position and modify the curvature of the lens.
Retina	the light-sensitive surface of an eye on which the image is formed	generate signals which are transmitted to the brain through optical nerves
Optic Nerve	Attached to retina	transmits visual information from the retina to the brain

Q85. Answer: (c) Lydian Nadhaswaram

The correct answer is option 3 Lydian Nadhaswaram.

• Lydian Nadhaswaram won the American Reality Show,' The World's Best 2019 for displaying his talent as a pianist.

• He belongs to Chennai.

• He defeated South Korea's Kukkiwon aka The Flying Taekwondo Masters

• He was the Student of famous music composer A.R Rehman.

Q86. Answer: (c) one-tenth

The correct answer is option 3 i.e. one-tenth.

Article 100 gives the following powers Voting in Houses, power of Houses to act notwithstanding vacancies and quorum:

• All questions at any sitting of either House or joint sitting of the Houses shall be determined by a majority of votes of the members present and voting, other than the Speaker or person acting as Chairman or Speaker The Chairman or Speaker

• Either House of Parliament shall have the power to act notwithstanding any vacancy in the membership and any proceedings in Parliament shall be valid notwithstanding that it is discovered subsequently that some person who was not entitled so to do sat or voted or otherwise took part in the proceedings.

• The quorum to constitute a meeting of either House of Parliament shall be one-tenth of the total number of members of the House.

• If at any time during a meeting of a House there is no quorum, it shall be the duty of the chairman or Speaker, or person acting as such, either to adjourn the House or to suspend the meeting until there is a quorum

Q87. Answer: (d) Cyclone Fani

The correct answer is option 4 i.e. Cyclone Fani.

Cyclone Fani:

• It is India's strongest cyclone which hits the Odisha coast in Puri in May 2019.

• The Speed of the cyclone is around 175km/h.

• According to the IMD, in the past 126 years (1891-2017) only 14 severe tropical cyclones have formed. Out of those, only one storm crossed the Indian mainland. Cyclone Fani will be the second storm that crossed the mainland. The last severe cyclone was 'Nargis' in 2008 which devastated Myanmar.

Name of the cyclone	state	year
Cyclone Gaja	Tamil Nadu	2018
Cyclone Hudhud	Andhra Pradesh	2014
Cyclone Nargis	Myanmar	2008
Cyclone Fani	Odisha	2019

Q88. Answer: (c) Assam

The Correct answer is Assam

State	Folk Songs
West Bengal	Baul
Assam	Zikir and zari
Uttar Pradesh	Rasiya, Birha

Q89. Answer: (c) Yogendra Puranik

The correct answer is option 3 i.e Yogendra Puranik

• Indian-origin Japanese, Yogendra Puranik has been elected to Tokyo's Edogawa Ward assembly, become the first Indian to win an election in Japan.

• Edogawa Ward has the highest number of Indian residents among Tokyo's 23 wards.

• This is the first-ever victory of a Japanese of Indian origin in elections in Japan.

• Japan Capital: Tokyo

• Japan Currency: Japanese Yen

• Japan PM: Yoshihide Suga

Q90. Answer: (b) 19.50 per cent

Note: At Present the correct rates are:

Name of the monetary instrument	Present rates
Repo Rate	5.15%

Reverse Rep Rate	4.90%
MSF (Marginal Standing Facility)	5.40%
Bank Rate	5.40%
SLR (Statutory Liquidity Ratio)	18.50%
CRR (Cash Reserve Ratio)	4%

The correct answer is option 2 i.e 19.50%

Statutory Liquidity Ratio:

• The share of NDTL that a bank is required to maintain in safe and liquid assets, such as unencumbered government securities, cash, and gold.

• Changes in SLR often influence the availability of resources in the banking system for lending to the private sector.

• The SLR is determined as a percentage of total demand and time liabilities.

• RBI used SLR to control inflation and fuel growth, by decreasing or increasing the money supply.

How SLR is used to control Inflation

• If RBI increases the SLR Rate then the bank has to hold more money, so the lending capacity of the bank decreases and the flow of money in the market decreases which means people have less money to spend which means demand decreases and hence inflation decreases.

• IF RBI decreases the SLR Rate then the bank has to hold less money. So the lending capacity of the bank increases and the flow of money in the market increases which means people have more money to spend and hence demand increases and hence inflation increases.

Q91. Answer: (c) Hema Divakar

The correct answer is option 3 i.e Hema Divakar

Global Asian of the Year Award:

• This award is given to those who stand out for vision, action, ingenuity and represent contemporary ideas to make a global impact.

• Dr Hema Divakar was honoured with the ‘Global Asian of the Year 2018-19’ award in Dubai for her yeomen services and contributions to the women’s healthcare ecosystem, in India.

• Dr. Hema received this award at the Asian Business; Social Forum 2019 under the ‘In Service of the Society and the Nation’ category.

Q92. Answer: (c) 326 BC

The correct answer is option 3 i.e 326 BC

• Alexander known as Alexander the Great or Sikander was the king of Greek Kingdom Macedonian of the Argead dynasty.

• He was the son of Philip II and succeed his father to the throne at the age of 20.

• Alexander invaded India in 326 BC after winning one of the most famous battles known as Battle of the Hydaspes in which he defeated the regional king Porus.

Q93. Answer: (b) Javelin Throw

The correct answer is Option 2, i.e Javelin Throw.

• Neeraj Chopra is an Indian athlete competing in the Javelin throw.

• In the 2018 Asian Games, he represented India and cliched the gold medal.

• He set a national record of 88.06 m.

• He also won the gold medal in the Commonwealth Games of 2018.

Q94. Answer: (c) Maharashtra

The correct answer is option 3 i.e Maharashtra.

Paithani Saree:

• This type of saree is named after the Paithan town in Aurangabad Maharashtra state where they are woven by hand.

• They are made up of very finest silk and therefore they are the most expensive saris in India.

Name of the state	Famous saree
Karnataka	Ilkal saree
Tamil Nadu	Kanjeevaram Silk

Maharashtra	Paithani Saree
Kerala	Kasavu Saree

Q95. Answer: (b) Narasimha Deva I

The correct answer is option 2 i.e Narasimha Deva 1

Konark Sun Temple:

• It is situated at Konark in Odisha.

• It is a UNESCO World Heritage Site.

• It is dedicated to the sun god, Surya, the first rays of the sun fall on the entrance of the temple.

• It was built in the 13th century and was built by King Narasimhadeva I.

Name of the king	Temple built by the king	State in which temple is located
Anantavarman Chodagangadeva	Jagannath Temple	Odisha
Narasimha Deva I	Konark Sun Temple	Odisha
Ananga Bhima Deva	Rebuilt Puri Jagannath Temple	Odisha

Q96. Answer: (c) Govind Vallabh Pant Sagar

The correct answer is option 3 i.e. Govind Vallabh Pant Sagar lake.

Key Points

Govind Vallabh Pant Sagar lake:

• Govind Vallabh Pant Sagar Lake is also known as Rihand Dam, is the largest dam of India by volume.

• It is India's largest artificial lake

• It is located at Pipri in Sonbhadra District in Uttar Pradesh.

• Its reservoir area is on the border of Madhya Pradesh and Uttar Pradesh.

• It is the tributary of Son River.

• Dhebar lake is the second-largest man-made lake

Name of lake	State
Dhebar Lake	Rajasthan
Rajsamand Lake	Rajasthan
Govind Vallabh Pant Sagar Lake	Uttar Pradesh
Maharana Pratap Sagar Lake	Himachal Pradesh

Additional Information

• The largest lake in the world is the Caspian Sea

• The Largest freshwater lake in the world is Lake Baikal

• Largest Freshwater Lake of India: Wular Lake

Q97. Answer: (d) Linus Torvalds

The correct answer is option 4 i.e Linus Torvalds

An operating system is a software that manages all of the hardware resources associated with your desktop or laptop

Linux Operating System:

• Linux is an operating system or a kernel. It is distributed under an open-source license. Its functionality list is quite like UNIX.

• It is one of the most popular operating systems.

• Android, is powered by the Linux operating system.

• Linux was developed by Linus Torvalds

Name of the operating system	Name of the developer
Linux	Linus Torvalds
Microsoft Windows	Bill Gates (Microsoft Corporation)

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Apple iOS	Steve Jobs (Apple Inc.)

Q98. Answer: (c) Manmohan Singh

The correct answer is option 3 i.e Manmohan Singh

Changing India: The book is released by former PM Manmohan Singh. In this book, he describes his journey from economist to the politician.

Some facts about Manmohan Sing:

• He is an Indian economist and politician who served as the Prime Minister of India from 2004 to 2014.

• He became the first PM after Jawahar Lal Nehru to be re-elected after completing his five years tenure. Now our present PM Narendra Modi become the third PM of India who was re-elected after completing his tenure.

• He was the 15^(th) Governor of the Reserve Bank of India.

Q99. Answer: (b) Growth hormone

The correct answer is option 2 i.e. Growth Hormone.

Somatotrophin:

• It is a growth hormone secreted by the anterior pituitary gland.

Tear Gas:

• It is known as a lachrymator agent

• It is a chemical weapon that causes severe eye and respiratory pain, skin irritation, bleeding, and blindness.

Digestive Juice:

• These are those juices which are secreted by the various glands to help in the digestion process.

• Examples are Mouth: Saliva

Laughing Gas:

• Chemical Name is Nitrous oxide,

• it is a colourless non-flammable gas, with a slight metallic scent and taste

Q100. Answer: (a) Param 8000

The correct answer is option 1 i.e. Param 8000

Param 8000:

• It was designed and assembled by the Centre for Development of Advanced Computing.

• The latest machine in the series is the PARAM Brahma which was released in September 2019.

• It was released in 1991 having 64 CPU's.

Name of the computer	Released year
Param 8000	1991
PARAM Brahma	September 2019
PARAM SHIVAY	Feb. 2019
PARAM ISHAAN	September 2016

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