SSC CHSL Previous Paper 11 (Held On: 5 Jul 2019 Shift 1) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

He persisted to do that he thought was right.

(a) No substitution
(b) in doing what he thought
(c) for doing this which he thought
(d) to do what he thinks

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

Gift of the gab

(a) have the ability to adapt
(b) achieve sudden greatness
(c) have the talent to speak well
(d) receive a precious gift

Q3. Select the wrongly spelt word.

(a) consize
(b) discern
(c) particle
(d) nurture

Q4. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. The fire destroyed many buildings which were rebuilt with red clay tiles.
B. In the year 1689, a huge fire engulfed the city.
C. Prague in the Czech Republic is known for its striking red roofs.
D. Even now, traditional red roofs are included in any repairs or new construction.

(a) CBAD
(b) CADB
(c) BADC
(d) DCBA

Q5. Select the most appropriate word for the group of words.

One who is difficult to please

(a) feminist
(b) fastidious
(c) fanatic
(d) fatalist

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

THRIFTY

(a) rigid
(b) grand
(c) frugal
(d) discreet

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

The man _____ heavy losses in his investments.

(a) incurred
(b) earned
(c) reaped
(d) raised

Q8. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

We are going to have pleasure in accepting your kind invitation.

(a) No substitution
(b) We are having pleasure
(c) We will have a pleasure
(d) We have pleasure

Q9. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. This code contains information about its nature.

B. Each living organism has a DNA code.

C. If this genetic material is altered, it would alter the organism.

D. The nature of an individual is determined by the unique genetic material in the code.

(a) BADC
(b) DBCA
(c) DCAB
(d) BCDA

Q10. In the sentence identify the segment which contains the grammatical error.

Darkness spilled like ink and began to spread at everything.

(a) spread at everything
(b) and began to
(c) Darkness spilled
(d) like ink

Q11. Select the most appropriate antonym of the given word.

PROSPERITY

(a) simplicity
(b) nobility
(c) affinity
(d) adversity

Q12. Select the correctly spelt word.

(a) Janury
(b) Octuber
(c) Novamber
(d) February

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Q13. Fill in the blank with the most appropriate word.

During the curfew the army was _____ at strategic locations.

(a) dispersed
(b) deployed
(c) employed
(d) supplied

Q14. Select the most appropriate synonym of the given word.

STERN

(a) strict
(b) shrewd
(c) mellow
(d) proud

Q15. In the sentence identify the segment which contains the grammatical error.

Despite of his efforts he couldn't get a decent job.

(a) Despite of
(b) he couldn't get
(c) his efforts
(d) a decent job.

Q16. Select the most appropriate indirect form of the given sentence.

Seema said to her daughter, "Don't go near the well."

(a) Seema told her daughter that don't go near the well.
(b) Seema said her daughter you shouldn't go near the well.
(c) Seema requested to her daughter to go near the well.
(d) Seema warned her daughter not to go near the well.

Q17. Select the most appropriate passive form of the given sentence.

She answered fifty questions in one hour.

(a) Fifty questions have been answered by her in one hour.
(b) Fifty questions were answered by her in one hour.
(c) Fifty questions are answered by her in one hour.
(d) Fifty questions were being answered by her in one hour.

Q18. Select the most appropriate meaning of the given idiom.

To take the bull by the horns

(a) to enjoy risky sports
(b) to face danger boldly
(c) to escape unhurt
(d) to act foolishly

Q19. Select the most appropriate antonym of the given word.

CENSURE

(a) distrust
(b) criticism
(c) shame
(d) praise

Q20. Select the most appropriate word for the group of words.

Something that catches fire easily

(a) inflammable
(b) inflatable
(c) infallible

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(d) incredible

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.

In July, 1937, the Japanese used an incident to provoke a war. They (1) ____ China and occupied a major portion (2) __ it. Chinese and Japanese (3) __ clashed in northern China, throwing the entire country into (4) __. Millions of people were shot (5) ____ death.

Q21. Select the most appropriate option to fill in blank number 1

(a) persuaded
(b) invaded
(c) extended
(d) included

Q22. Select the most appropriate option to fill in blank number 2

(a) from
(b) of
(c) by
(d) for

Q23. Select the most appropriate option to fill in blank number 3

(a) crowds
(b) caravans
(c) mobs
(d) troops

Q24. Select the most appropriate option to fill in blank number 4

(a) turmoil
(b) progress
(c) peace
(d) tranquility

Q25. Select the most appropriate option to fill in blank number 5

(a) to
(b) in
(c) for
(d) on

GENERAL INTELLIGENCE

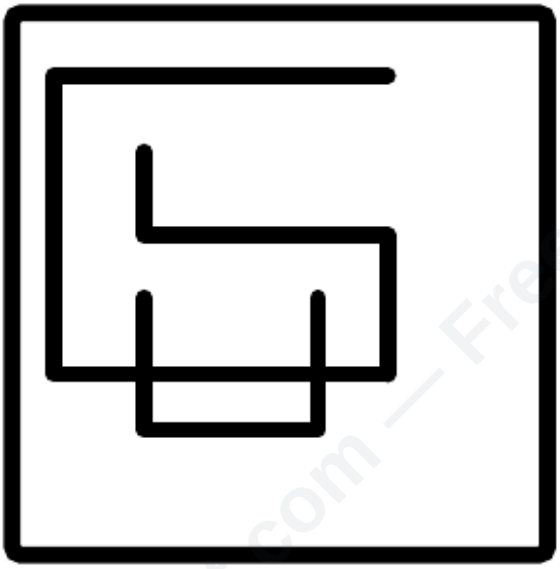
Q26. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

MDUK : QHYO : : SALQ : ?

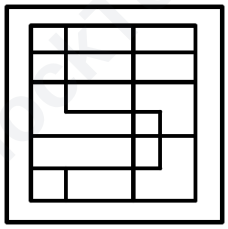
(a) WEPV
(b) VDPV
(c) WDPU
(d) WEPU

Q27. Select the option in which Figure-X is embedded. (Rotation is not allowed)

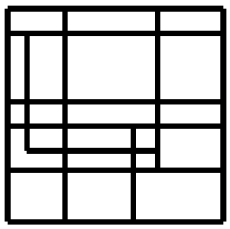
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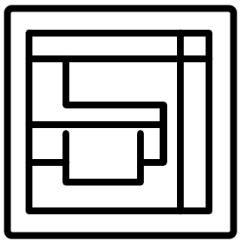
(a)



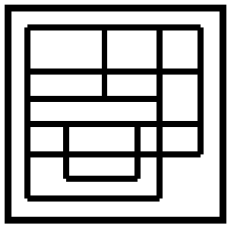
(b)



(c)



(d)

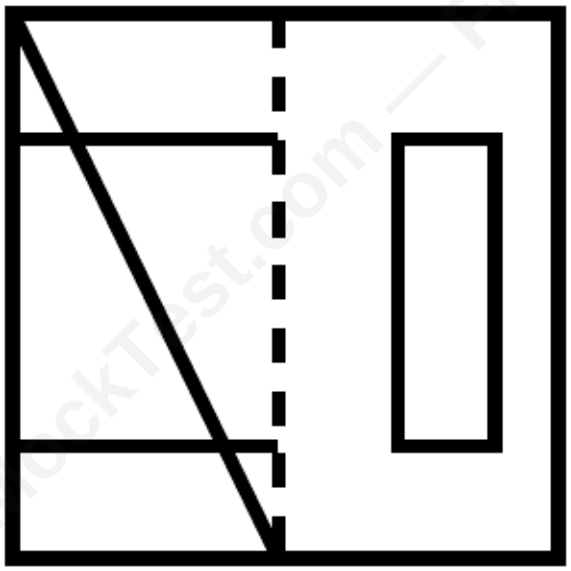


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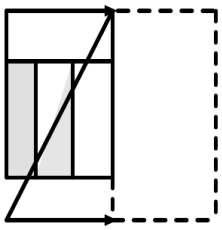
Q28. Three persons A, B and C have different amounts of rupees with them. If A takes Rs. 6 from C, A will have equal amount as B has. A and B together have total Rs. 74. How many rupees does B have?

(a) 40
(b) 34
(c) 44
(d) 30

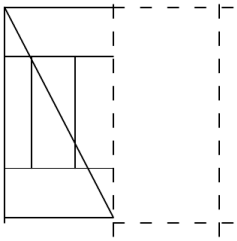
Q29. A figure of transparent sheet will a pattern is given below. Select the option that shows how the pattern would appear when the transparent sheet is folded at the dotted line.



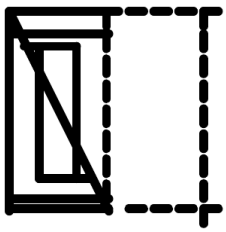
(a)



(b)

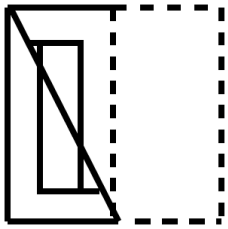


(c)



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(d)



Q30. A + B means 'A is husband of B'

A – B means 'A is brother of B'

A × B means 'A is sister of B'

A ÷ B means 'A is mother of B'.

If P + R ÷ S × M – K, then how is R related to K?

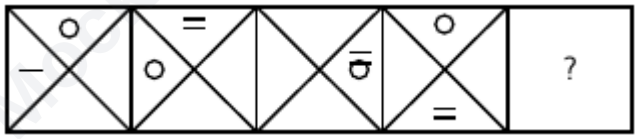
(a) Sister

(b) Daughter

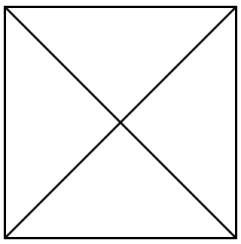
(c) Mother

(d) Paternal grandmother

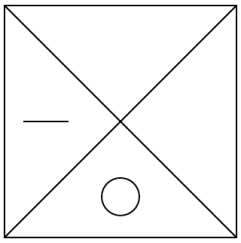
Q31. Select the figure that will come next in the following figure series.



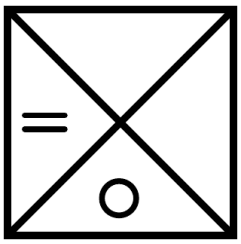
(a)



(b)

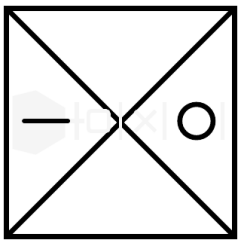


(c)



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(d)



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

(5, 7, 11)

(a) (15, 17, 23)
(b) (14, 16, 18)
(c) (23, 29, 31)
(d) (17, 19, 21)

Q33. Which two signs should be interchanged in the following equation to make it correct?

405 + 27 × 40 – 308 ÷ 22 = 314

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

Q34. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

(a) XBFJ
(b) HLPT
(c) DHLP
(d) CGKQ

Q35. Which number will replace the question mark (?) in the following series?

16, 18, 21, 26, 33, ?

(a) 46
(b) 43
(c) 45
(d) 44

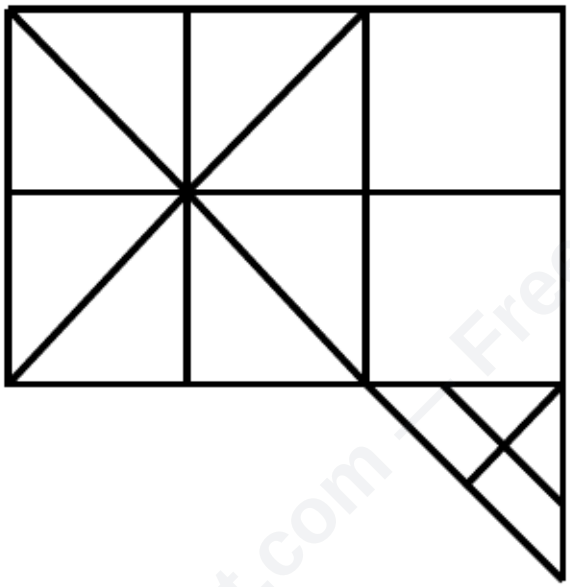
Q36. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(2, 4, 8)

(a) (1, 2, 6)
(b) (5, 25, 625)
(c) (4, 16, 64)
(d) (3, 9, 34)

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

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(a) 22
(b) 24
(c) 23
(d) 25

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

s_ _m r q c t_p d m _ q _ t s _ _ m r q c t

(a) pdsrcpd
(b) pdsrcrd
(c) pdsrbpd
(d) rdsrcrd

Q39. 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) 170
(b) 65
(c) 50
(d) 195

Q40. Arrange the following activities in a logical and meaningful order.

1. Return journey
2. Travel arrangements
3. Hotel stay
4. Sightseeing
5. Reaching destination

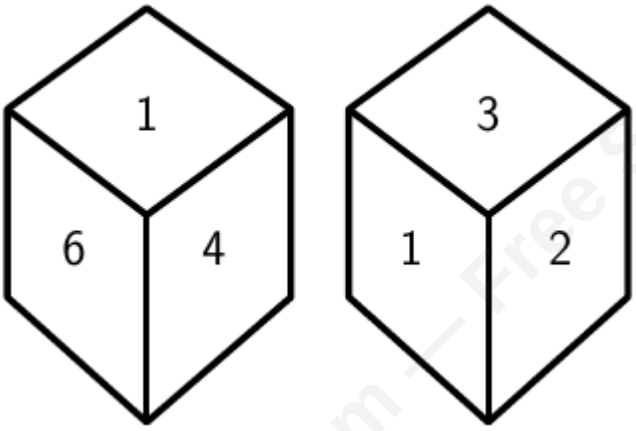
(a) 2, 5, 3, 4, 1
(b) 3, 2, 5, 4, 1
(c) 2, 5, 3, 1, 4
(d) 5, 3, 4, 2, 1

Q41. In a code language, VERBATIM is written as EUHYPLWD. How will SALESMAN be written as in that language?

(a) OHVDDQVP
(b) HODVQDPV
(c) VDOHQDPV
(d) HODVVPDQ

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Q42. Two different positions of the same dice are shown below, the six faces of which are numbered 1 to 6. Find the number on the face opposite to the one having '5'.



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

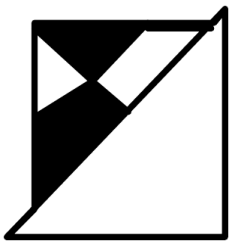
Q43. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

(a) Biology
(b) Political Science
(c) Sociology
(d) History

Q44. Select the correct mirror image of the figure when the mirror is placed to the right of the figure.



(a)

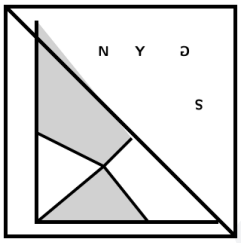


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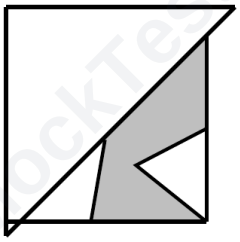
(b)



(c)



(d)



Q45. 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.

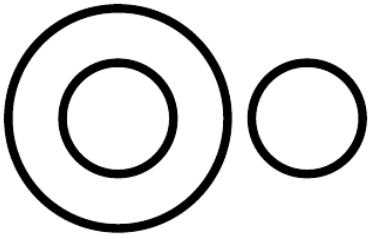
Zinc : Brass

(a) Mercury : Thermometer
(b) Gold : Ornament
(c) Silver : Ring
(d) Copper : Bronze

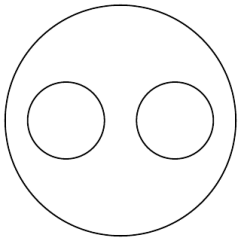
Q46. Select the Venn diagram that best illustrates the relationship between the following classes.

Fuel, Diesel, Liquid

(a)

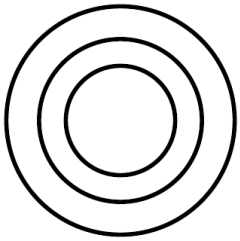


(b)

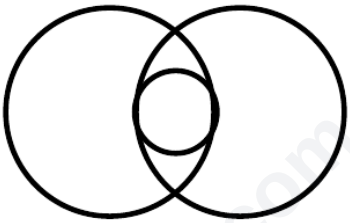


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(c)



(d)



Q47. 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.

19 : 380

(a) 14 : 196
(b) 17 : 289
(c) 13 : 182
(d) 12 : 146

Q48. If YOGHURT is coded as 7678392, then how will QUICKLY be coded as?

(a) 7383237
(b) 8393127
(c) 8393117
(d) 8393237

Q49. 'Kidney' is related to 'Excretion' in the same way as 'Heart' is related to '_____'.

(a) Artery
(b) Blood Circulation
(c) Human body
(d) Heart Chambers

Q50. 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 purses are rupees.

Some rupees are coins.

Conclusions:

I. Some purses are coins.

II. No purse is coin.

III. No rupee is coin.

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

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QUANTITATIVE APTITUDE

Q51. What is the area of a rhombus (in cm^2) whose side is 20 cm and one of the diagonals is 24 cm?

(a) 350
(b) 396
(c) 392
(d) 384

Q52. Two circles of radii 7 cm and 9 cm intersect at the point A and B. If AB = 10 cm and the distance between the centers of the circles is x cm, then the value of x is:

(a) $2(\sqrt{6} + \sqrt{7})$
(b) $(\sqrt{6} + \sqrt{7})$
(c) $(\sqrt{6} + \sqrt{14})$
(d) $2(\sqrt{6} + \sqrt{14})$

Q53. The value of $3 \times 2 \div 3$ of $12 - 3 \div 2 \times (2 - 3) \times 2 + 3 \div 2$ of 3 is:

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

Q54. A man bought 2 articles for Rs. 3050 each. He sold one article at 10% loss and another at 20% profit. The total profit/loss percentage he earned is:

(a) 10% profit
(b) 10% loss
(c) 5% loss
(d) 5% profit

Q55. A number is decreased by 30%, then increased by 30%, then further increased by 30%. What is the net increase/decrease percent in the number (correct to the nearest integer)?

(a) 18% decrease
(b) 18% increase
(c) 21% decrease
(d) 21% increase

Q56. If $\cos\theta = 2p/(p^2 + 1)$, $(p \neq \pm 1)$ then $\operatorname{cosec}\theta$ is equal to:

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

Q57. A circle is inscribed in a triangle ABC. It touches sides AB, BC and AC at points P, Q and R respectively. If BP = 9 cm, CQ = 10 cm and AR = 11 cm, then the perimeter (in cm) of the triangle ΔABC is

(a) 60
(b) 72.5
(c) 75
(d) 57.5

Q58. If $2\sin^2\theta + 5\cos\theta - 4 = 0$, $0° < \theta < 90°$, then the value of $\cot\theta + \operatorname{cosec}\theta$ is:

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

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Q59. Three number are in the ratio 1/2 : 2/3 : 3/4. The difference between the greatest and the smallest number is 27. The average of the three number is:

(a) 69
(b) 81
(c) 40
(d) 54

Q60. If $a^2 + b^2 = 135$ and $ab = 7$, $(a > 0, b > 0)$ then the value of $(a^3 – b^3)$ is:

(a) 1350
(b) 1562
(c) 1680
(d) 1600

Q61. 9 years ago, the average age of a family of five members was 33 years. Now, three new members join whose ages are in ascending order with consecutive gaps of 8 years. If the present average age of the family is the same as it was 9 years ago, what is the age (in years) of the eldest new member?

(a) 35
(b) 26
(c) 29
(d) 17

Q62. If $12 \cot^2\theta – 31 \operatorname{cosec} \theta + 32 = 0$, $0° < \theta < 90°$, then the values of $\sin \theta$ will be:

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

Q63. The simplified value of

15 of 8 + 6 + [(27 - 3) ÷ 6 + 4] is:

(a) 136
(b) 128
(c) 134
(d) 130

Q64. In ΔABC, the bisectors of angle B and angle C meet at point O within the triangle. If angle BOC = 148°, then the measure of angle A is:

(a) 58°
(b) 116°
(c) 87°
(d) 29°

Q65. If $(2x - 7)^3 + (2x – 8)^3 + (2x - 3)^3 = 3 (2x - 7) (2x - 8) (2x - 3)$, then what is the value of x?

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

Q66. If a 10-digit number 6220x558y2 is divisible by 88, then the value of (5x + 5y) is:

(a) 45
(b) 55
(c) 20
(d) 25

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Q67. A certain amount invested at a certain rate, compounded annually, grows to an amount in three years, which is a factor of 1.191016 of principal. What is the rate percentage?

(a) 8
(b) 5
(c) 4
(d) 6

Q68. In triangle ABC, D and E are two points on the sides AB and AC respectively so that DE || BC and AD/BD = 5/6. The ratio of the area of ΔABC to the area of trapezium DECB is:

(a) 121 : 36
(b) 121 : 96
(c) 36 : 121
(d) 96 : 121

Q69. A, B and C can complete a piece of work is 5, 20 and 60 days respectively, Working together, the same work in how many days?

(a) 33/4
(b) 31/4
(c) 53/4
(d) 51/4

Q70. If x^4 + x^(-4) = 1442, (x > 0) then the value of x + x^(-1) is:

(a) 3√10
(b) 2√10
(c) 4√10
(d) 15

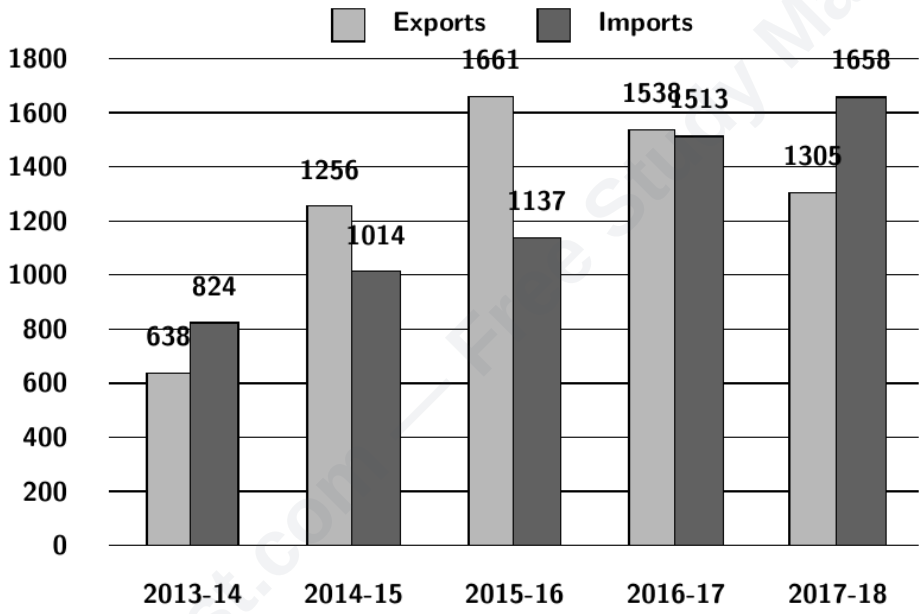
Q71. There was 25% off on bags. A lady bought a bag and got additional 20% discount for paying in cash. She paid Rs. 480. What was the price tag (in Rs.) on the bag?

(a) 750
(b) 800
(c) 825
(d) 950

Directions

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

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Q72. In which financial year the percentage increase in Imports is the highest in comparison to its previous financial year?

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

Q73. In which financial year, total of Exports and Imports is the highest?

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

Q74. What is the average of Export (in tonnes) during the five financial years?

(a) 1552.4
(b) 1289.5
(c) 1025.9
(d) 1279.6

Q75. What is the ratio of total Imports to total Exports during the five financial years?

(a) 4175 : 4011
(b) 3073 : 3199
(c) 4011 : 4175
(d) 3199 : 3073

GENERAL AWARENESS

Q76. According to Article 243 V of the Constitution of India, the minimum age requirement for becoming a member of a Municipalty is _____.

(a) 32 years
(b) 21 years
(c) 28 years
(d) 24 years

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Q77. In which state is the Kamakhya Temple situated?

(a) Assam
(b) Jharkhand
(c) Chhattisgarh
(d) Arunachal Pradesh

Q78. In which state is 'Tarnetar' fair celebrated annually?

(a) Gujarat
(b) Manipur
(c) Madhya Pradesh
(d) Telangana

Q79. Who was the coach of the Indian Under-19 men's cricket team, which won the Under19 World Cup 2018?

(a) Rahul Dravid
(b) Anil Kumble
(c) Robin Singh
(d) Lalchand Rajput

Q80. Which country houses the headquarters of the intergovernmental organisation, 'The International Bureau of Weights and Measures'?

(a) Switzerland
(b) France
(c) Belgium
(d) Austria

Q81. Which of the following airports was crowned the 'World's Best Airport' for the seventh time in a row by the Skytrax World Airport Awards 2019?

(a) Haneda International Airport
(b) Indira Gandhi International Airport
(c) Changi Airport
(d) Chhatrapati Shivaji Maharaj International Airport

Q82. In February 2018, _____ was appointed as the first independent female director of ICC.

(a) Indra Jai Singh
(b) Chanda Kochhar
(c) Indra Nooyi
(d) Nita Ambani

Q83. Who among the following won an award in the 'Best Actor (Female)' category at the 64th Filmfare Awards held in 2019?

(a) Alia Bhatt
(b) Neena Gupta
(c) Sara Ali Khan
(d) Janhvi Kapoor

Q84. Which of the following countries will host the World Leaders Conference to Combat Anti-Semitism in October 2020?

(a) Denmark
(b) Norway
(c) Belgium
(d) Sweden

Q85. Jadugora, in Singhbhum district, Jharkhand is an important mine for which of the following?

(a) Emerald
(b) Manganese
(c) Coal

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(d) Uranium

Q86. Who among the following is called the 'father of supercomputing'?

(a) Ken Thompson
(b) Seymour Cray
(c) Vint Cerf
(d) Alan Perlis

Q87. When is the World Thyroid Day observed every year?

(a) 15th January
(b) 25th May
(c) 5th September
(d) 25th October

Q88. Who was affectionately called 'The Grand Old Man of India"?

(a) Dadabhai Naoroji
(b) Lal Bahadur Shastri
(c) Rajendra Prasad
(d) Bipin Chandra Pal

Q89. What is the SI unit of electrical resistance?

(a) Ampere
(b) Ohm
(c) Mole
(d) Volt

Q90. In the context of computers, what is the full form of PDF?

(a) PowerPoint Document Format
(b) Portable Document Format
(c) Portable Details Format
(d) Personal Document Format

Q91. A company that has been founded after 2003 and that has a current valuation of more than 1 billion USD is referred to as in the industry by which term?

(a) Unicorn Startup Company
(b) 5th Gear Startup Company
(c) Blue Moon Startup Company
(d) Stratosphere Startup Company

Q92. In May 2019, _____, an Indian Council of Medical Research (ICMR) professor, was awarded the '2019 Dr Lee Jong-wook Memorial Prize for Public Health' at the 72nd World Health Assembly in Geneva.

(a) Seema Sahay
(b) Balram Bhargava
(c) Alagarasu Kalichamy
(d) Ajay Vir Singh

Q93. Which of the following words was inserted in the Preamble by the 42nd Amendment of the Constitution of India?

(a) Economic
(b) Political
(c) Belief
(d) Integrity

Q94. Who among the following Australian cricket players was NOT banned by Cricket Australia for ball tampering in 2018?

(a) David Warner
(b) Steve Smith
(c) Cameron Bancroft

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(d) Glenn Maxwell

Q95. Which of the districts listed as options is not one of the three districts in the Chambal division of the state of Madhya Pradesh?

(a) Morena
(b) Sheopur
(c) Chhindwara
(d) Bhind

Q96. Which one of the following statements about gratuity is NOT CORRECT?

(a) A person is eligible to receive gratuity only if he has completed a minimum seven years of service with an organisation.
(b) Gratuity is given by the employer to his/her employee for the services rendered by him/her during the period of employment.
(c) Gratuity is usually paid at the time of retirement but it can be paid before retirement provided certain conditions are met.
(d) Gratuity can be paid before the completion of five years of the death of an employee or if he has become disabled due to accident or disease.

Q97. Which of the following states is the biggest Jute producer in India?

(a) Nagaland
(b) Karnataka
(c) West Bengal
(d) Rajasthan

Q98. Which part of the human body gets affected by the illness called osteoporosis?

(a) Brain
(b) Bones
(c) Kidney
(d) Lungs

Q99. In which year was the Non-Cooperation Movement launched?

(a) 1856
(b) 1919
(c) 1877
(d) 1920

Q100. The Bacille Calmette-Guerin vaccine (popularly called BCG vaccine) is a vaccine to prevent which of these diseases?

(a) Tuberculosis
(b) Typhoid
(c) Polio
(d) Jaundice

ANSWER KEY

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

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91 a	92 b	93 d	94 d	95 c	96 a	97 c	98 b	99 d	100 a

SOLUTIONS

Q1. Answer: (b) in doing what he thought

• The correct answer is option 2.

• persist means to continue to do something, hence, continuous form of verb will be used after it.

• In option 2) ' in doing' is given, which is correct and fits in the context of the given sentence.

• Hence, 2) will be the correct answer.

Q2. Answer: (c) have the talent to speak well

The correct answer is "have the talent to speak well".

Key Points

• "Gift of the gab" is an idiom that refers to the ability to speak easily and confidently in a way that makes people want to listen to you and believe you.

• It denotes the skill of being eloquent and persuasive in speech.

• For example, in a sentence, it can be used like this: "She's a saleswoman with the gift of the gab, capable of selling sand in a desert."

• Hence, the correct answer will be Option 3.

Additional Information

• Option 1: "Have the ability to adapt" is not related to the given idiom.

• Adaptability is about flexibility and the capacity to adjust oneself readily to different conditions, not specifically about speaking skills.

• Option 2: "Achieve sudden greatness" also doesn't align with the idiom.

• Achieving greatness involves success or distinction in a particular field or endeavor, not necessarily related to speaking.

• Option 4: "Receive a precious gift" is a literal interpretation of the idiom but does not reflect the actual figurative meaning of the phrase, which pertains to eloquent and persuasive speaking abilities.

Q3. Answer: (a) consize

• The correct answer is Option 1 i.e. 'Consize'.

• The correct spelling is 'concise' which means 'brief and precise'.

• Discern: To detect with senses, to perceive, recognize or comprehend with the mind.

• Particle: A very small piece of matter.

• Nurture: The act of nourishing or nursing.

Q4. Answer: (a) CBAD

• The correct answer is Option 1 i.e. Part CBAD.

• Among the given sentences the independent sentence is C So the answer begins with C.

• Second sentence is Part B which as continue the sentence which is C

• Sentence B & A make a pair. Sentence B talks about the fire engulfing the city which is continued by sentence A.

• Therefore, the correct sequence is followed by Option 1.

Q5. Answer: (b) fastidious

• The correct answer is Option 2 i.e. 'fastidious'.

• The meaning of the given words:

• Feminist: relating to or in accordance with feminism.

• Fastidious: Difficult to please; quick to find fault.

• Fanatic: A person who is zealously enthusiastic for some cause, especially in religion.

• Fatalist: A person who believes in fate, one who maintains that all things happen by inevitable necessity.

• Therefore, the best alternative is Option 2.

Q6. Answer: (c) frugal

The solution is in Hindi. Read it online.

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Q7. Answer: (a) incurred

• The correct answer is Option 1 i.e. 'incurred' which means 'to occur or to run into danger'.
• The meaning of the other words:
• Earned: To gain, to receive payment for work.
• Reaped: To cut the grain with a sickle; To gather a harvest by cutting.
• Raised: To cause to rise, to lift or elevate.
• Therefore, heavy losses can be occurred or incurred, all other options doesn't make any sense in the given blank.

Q8. Answer: (d) We have pleasure

• The correct answer is Option 4.
• The sentence is in simple present tense so the underlined phrase should be in simple present tense.
• 'we are going to have pleasure' is in future continuous tense so this cannot be the answer.
• 'we are having pleasure' is in present continuous tense and cannot be the answer.
• 'We will have a pleasure' is also wrong because it is in future tense.
• Option 4 'we have pleasure' is in simple present tense and is the most appropriate substitution to the underlined segment.

Q9. Answer: (a) BADC

• The correct answer is Option 1 i.e. BADC.
• Sentence B explains about the DNA code. Sentence A which begins with 'this code' shows that it is the continuation of the DNA code. So these two sentences make the pair.
• Sentence D explains about the genetic material which is continued in the sentence C. So these two sentences make the pair.
• If we begin the sentence with D, it doesn't make a proper sequence after arrangement.
• Therefore, the correct sequence is BADC which gives a meaningful sentence after arrangement.

Q10. Answer: (a) spread at everything

• The correct answer is Option 1.
• 'Darkness' is an abstract noun which can be spread everywhere. 'at everything' doesn't make any sense.
• Therefore, the correct sentence would be 'Darkness spilled like ink and began to spread everywhere.'
• case of parallelism is also followed as we can see spilled and began both are in 2nd form of verb as they are joined by conjunction "AND"

Q11. Answer: (d) adversity

The solution is in Hindi. Read it online.

Q12. Answer: (d) February

The correct answer is- 'February'
Key Points
• The correct spelling of the given months:
• January, October, November

Q13. Answer: (b) deployed

The correct answer is option 2 i.e. deployed.
dispersed- distribute or spread over a wide area.
deployed- move (troops or equipment) into position for military action.
employed- (of a person) having a paid job.
supplied- make (something needed or wanted) available to someone; provide.
For the military, we always use deployed because it is a collocated word.
So the chosen option is correct.

Q14. Answer: (a) strict

The correct answer is option 1 i.e. strict.
STERN- (of a person or their manner) serious and unrelenting, especially in the assertion of authority and exercise of discipline.
strict- demanding that rules concerning behaviour are obeyed and observed.
shrewd- having or showing sharp powers of judgement; astute.
mellow- (especially of a sound, flavour, or colour) pleasantly smooth or soft; free from harshness.

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proud- having or showing a high or excessively high opinion of oneself or one's importance.
From the above meaning, it can be said that only option 1 is the synonym of the given word.

Q15. Answer: (a) Despite of

The correct answer is option 1 i.e. despite of.
Inspite of means Despite. t=Therefore we do not need to add 'of' with despite.

Q16. Answer: (d) Seema warned her daughter not to go near the well.

The correct answer is option 4.
As it is clear from the statement that statement is imperative we need to use the structure of imperative to change it into passive.
Don't + main verb + object (direct)
Not + To + main verb + object (indirect)
indirect structure is followed only by option 4 so it will be the right choice.

Q17. Answer: (b) Fifty questions were answered by her in one hour.

The correct answer is option is 2.
Active voice - SUB + V2 + object + other word.
Passive voice - Object + was/ were + v3 + by + subject + other word.
The passive structure is followed only by the option 2.
so this will be the correct choice.

Q18. Answer: (b) to face danger boldly

The correct answer is to face danger boldly
Key Points
• The meaning of the given idiom is - to do something difficult in a brave and determined way
• Example: She decided to take the bull by the horns and organize things for herself.

Q19. Answer: (d) praise

The correct answer is option 4 i.e. praise.
CENSURE - express severe disapproval of (someone or something), especially in a formal statement.
distrust- the feeling that someone or something cannot be relied upon.
criticism- the expression of disapproval of someone or something on the basis of perceived faults or mistakes.
shame- a painful feeling of humiliation or distress caused by the consciousness of wrong or foolish behaviour.
praise- express warm approval or admiration of.
From the above meaning, it can be said that only option 4 shows the antonym of the given word.
This will be the correct choice.

Q20. Answer: (a) inflammable

The correct answer is option 1 i.e. inflammable.
inflammable- easily set on fire.
inflatable- capable of being filled with air.
infallible -incapable of making mistakes or being wrong.
incredible -impossible to believe.
It can be seen that option 1 tells about the given groups of the word.

Q21. Answer: (b) invaded

The correct answer is option 2 i.e. invaded.
persuaded - induce (someone) to do something through reasoning or argument.
invaded- (of an armed force) enter (a country or region) so as to subjugate or occupy it.
extended - made larger; enlarged.
included- contained as part of a whole being considered.
As it can be seen that this is a passage about the war and option 2 fits the passage contextually so, this will be the right answer.

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Q22. Answer: (b) of

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

As we have to show the relation of the portion with the china we have to use OF because OF is used to show the relation.

The correct phrase will be the major portion of it.

Q23. Answer: (d) troops

The correct answer is option 4 i.e. troops.

crowds- a large number of people gathered together in a disorganized or unruly way.

caravans- a vehicle equipped for living in, typically towed by a car and used for holidays.

mobs- a group of individual

troops- a group of soldiers.

As we can see that it is a war and there should be groups of soldiers.

So the troops is the right answer here.

Q24. Answer: (a) turmoil

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

turmoil- a state of great disturbance, confusion, or uncertainty.

progress- forward or onward movement towards a destination.

peace- freedom from disturbance; tranquillity.

tranquility- the quality or state of being tranquil; calm.

Ther option 1 is contextually correct as it is a war and there will be turmoil.

Q25. Answer: (a) to

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

shot to death is a fixed phrase and it always comes together.

So, this will be the right choice.

Q26. Answer: (d) WEPU

The pattern followed here is:

Similarly,

Hence, the correct answer is WEPU.

Q27. Answer: (b) [figure]

The embedded figure is shown below.

Hence, the figure in option 2 is the correct answer.

Q28. Answer: (a) 40

Suppose the amounts with A, B and C are x, y and z respectively.

According to the given information,

A takes Rs. 6 from C, A will have equal amount as B.

→ x + 6 = y ----(i)

A and B together have total Rs. 74.

x + y = 74 ----(ii)

Therefore,

x + y = 74

=> x + (x + 6) = 74

=> 2x + 6 = 74

=> 2x = 74 - 6

=> 2x = 68

=> x = 34.

Therefore, y = 34 + 6 = 40.

So, B has Rs. 40

Hence, the correct answer is 40.

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Q29. Answer: (b) [figure]

When unfolded, the transparent sheet will look like the below figure:

Hence, the figure in option 2 is the correct answer.

Q30. Answer: (c) Mother

Using the below table of symbols, we can create the family tree:

Symbol	•	•	×	÷
Meaning	Husband	Brother	Sister	Mother

Given expression: P + R ÷ S × M – K

After substitution, we get the following information: P is the husband of R. R is the mother of S. S is the sister of M. M is the brother of K.

The family tree is as shown below:

Hence, R is the mother of K.

Q31. Answer: (b) [figure]

In the given series, the circle alternately shifts by 1 triangle and 2 triangles in the anti-clockwise direction.

The bar symbols move in a clockwise direction. Alternately, there are 1 and 2 bar symbols in each step.

Therefore, the answer figure will have a circle in the triangle at the bottom and 1 bar symbol in the left triangle.

Only figure 2 satisfies this condition.

Hence, the correct answer is option 2.

Q32. Answer: (c) (23, 29, 31)

The pattern followed here is:

(5, 7, 11) is a set of consecutive prime numbers.

In a similar way,

(23, 29, 31) is the only option which is a set of consecutive prime numbers.

Hence, the correct answer is (23, 29, 31).

Q33. Answer: (b) • and ÷

Expression: 405 + 27 × 40 – 308 ÷ 22

After interchanging the signs:

1) ÷ and ×

405 + 27 ÷ 40 – 308 × 22

= 405 + 0.675 – 308 × 22

= 405 + 0.675 – 6776

= -6370.325 ≠ 314

2) + and ÷

405 ÷ 27 × 40 – 308 + 22

= 15 × 40 – 308 + 22

= 600 – 308 + 22

= 622 – 308

= 314

3) × and +

405 × 27 + 40 – 308 ÷ 22

= 405 × 27 + 40 – 14

= 10935 + 40 – 14

= 10975 – 14

= 10961 ≠ 314

4) + and –

405 – 27 × 40 + 308 ÷ 22

= 405 – 27 × 40 + 14

= 405 – 1080 + 14

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= 419 – 1080

= -661 ≠ 314

Hence, the correct answer is (+ and ÷).

Q34. Answer: (d) CGKQ

The pattern followed here is:

1)

2)

3)

7)

Hence, the correct answer is CGKQ.

Q35. Answer: (d) 44

The pattern followed here is:

16 + 2 = 18

18 + 3 = 21

21 + 5 = 26

26 + 7 = 33

33 + 11 = 44

Hence, the correct answer is 44.

Q36. Answer: (c) (4, 16, 64)

The pattern followed here is:

(2, 4, 8) → $2^2 = 4$ and $2^3 = 8$.

Similarly,

(4, 16, 64) → $4^2 = 16$ and $4^3 = 64$.

Hence, (4, 16, 64) is the correct answer.

Q37. Answer: (b) 24

Concept Used:

Triangles = n× (n + 1)/2×H

Where,

n= number of small triangles

H = number of 'end to end' horizontal lines

Triangles = n× 2 Triangles=n×2Triangles=n×2

Where,

n= number of small triangles

→ In, □ABCD: 16

n= number of small triangles = 8

Triangles = 8× 2 = 16 Triangles=8×2=16Triangles=8×2=16Triangles=8×2=16

Hence, Total triangles in □ABCD = 16

→ In, ΔCEF: 6

n= number of small triangles = 2

H = number of 'end to end' horizontal lines = 2 (CF, HG)

Triangles = 2× (2 + 1)/2×2 = 6

Hence, Total triangles in ΔCEF = 6

→Now, triangles formed due to joining shapes= 2(ΔJIF, ΔAKF)

→ Now Adding all the Δs:

Total Δs = 16 + 6 + 2 = 24

Hence, the correct answer is 24.

Q38. Answer: (a) pdsrcpd

The pattern followed here is:

1) sp dm r q c tsp d m r q c t s p d m r q c t → follows a pattern i.e., spdmrqct / spdmrqct / spdmrqct

2) sp dm r q c tsp d m r q c t s r d m r q c t → doesn't follow a pattern
3) sp dm r q c tsp d m r q b t s p d m r q c t → doesn't follow a pattern
4) sr dm r q c tsp d m r q c t s r d m r q c t → doesn't follow a pattern
Hence, the correct answer is “pdsrcpd”.

Q39. Answer: (d) 195

The pattern followed here is:
1) $13^2 + 1 = 170$
2) $8^2 + 1 = 65$
3) $7^2 + 1 = 50$
4) $14^2 - 1 = 195$
Hence, the correct answer is 195.

Q40. Answer: (a) 2, 5, 3, 4, 1

The correct order of arrangement for a travelling trip is:
Travel arrangements < Reaching destination < Hotel stay < Sightseeing < Return journey.
Hence, the correct answer is ‘2, 5, 3, 4, 1’.

Q41. Answer: (b) HODVQDPV

The pattern followed here is:
Similarly,
Hence, the correct answer is HODVQDPV.

Q42. Answer: (a) 1

From the given positions, it can be seen that 2, 3, 4, and 6 are adjacent to 1.
The only number left is 5. Therefore, 1 is opposite to 5.
Hence, 1 will be on the face opposite to the one having 5.

Q43. Answer: (a) Biology

The pattern followed here is:
Biology is a branch of Science.
The other three options are branches of Arts.
Hence, the correct answer is Biology.

Q44. Answer: (b) [figure]

The mirror image of the question figure will look like the below figure:
Hence, the correct answer is the figure in option 2.

Q45. Answer: (d) Copper : Bronze

The pattern followed here is:
Brass is an alloy which contains Zinc.
In a similar way, Bronze is an alloy which contains Copper.
Hence, the correct answer is "Copper : Bronze".

Q46. Answer: (d) [figure]

Diesel is a type of fuel. Diesel is present in liquid form.
Some fuels are liquids.
Hence, the correct answer is option 4.

Q47. Answer: (c) 13 : 182

The pattern followed here is:
$19^2 + 19 = 361 + 19 = 380$
1) $14^2 + 14 = 196 + 14 = 210$
2) $17^2 + 17 = 289 + 17 = 306$
3) $13^2 + 13 = 169 + 13 = 182$

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4) $12^2 + 12 = 144 + 12 = 156$

Hence, the correct answer is 13 : 182.

Q48. Answer: (d) 8393237

The pattern followed here is:

Similarly,

Hence, the correct answer is '8393237'.

Q49. Answer: (b) Blood Circulation

The primary function of kidneys is excretion.

Similarly, the primary function of the heart is blood circulation.

Hence, the correct answer is 'Blood Circulation'.

Q50. Answer: (d) Either Conclusion I or II follows.

The least possible Venn diagram is as follows:

Solution:

I. Some purses are coins. → False (it is possible but not definite)

II. No purse is coin. → False (it is possible but not definite)

III. No rupee is coin. → False (Some rupees are coins)

Thus, I and II form a complementary pair.

Hence, either conclusion I or conclusion II follows.

Q51. Answer: (d) 384

We know that in rhombus the diagonal intersects at right angle and equally divide diagonal

Therefore In right angle ΔBOC

BO = $\sqrt{((20)^2 - (12)^2)} = \sqrt{(400 - 144)} = \sqrt{256} = 16$ cm

Therefore BD = BO + OD = 16 + 16 = 32 cm

Also AC = 24 cm (given)

Area of rhombus = 1/2 × first diagonal × second diagonal = 1/2 × 32 × 24 = 384 cm^2

Q52. Answer: (d) 2(√6 + √14)

We know that radius intersects chord perpendicularly and divides chord two equal parts

Therefore AC = 5 cm

In ΔAPC

PC = $\sqrt{(7^2 - 5^2)} = \sqrt{(49 - 25)} = \sqrt{24} = 2\sqrt{6}$ cm

In ΔACQ

QC = $\sqrt{(9^2 - 5^2)} = \sqrt{(81 - 25)} = \sqrt{56} = 2\sqrt{14}$ cm

Distance between centers = PQ = 2 √6 + 2 √14 = 2 (√6 + √14) cm

Q53. 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

Q54. Answer: (d) 5% profit

Shortcut Trick

When the Cost Price (CP) of two articles is the same, the net profit or loss percentage is the arithmetic mean of the individual profit/loss percentages.

Net Profit/Loss % = (Percentage 1 + Percentage 2) ÷ 2

Net % = (−10% + 20%) ÷ 2 = 10% ÷ 2 = 5%

Since the result is positive, it is a profit.
Therefore The correct answer is 5% profit.
Alternate Method
Given:
CP of Article 1 = Rs. 3050
CP of Article 2 = Rs. 3050
Loss on Article 1 = 10%
Profit on Article 2 = 20%
Formula Used:
Selling Price (SP) = CP × (100 ± Profit/Loss %) ÷ 100
Profit % = (Total SP − Total CP) ÷ Total CP × 100
Calculations:
=> Total CP = 3050 + 3050 = Rs. 6100
=> SP1 = 3050 × (90 ÷ 100) = Rs. 2745
=> SP2 = 3050 × (120 ÷ 100) = Rs. 3660
=> Total SP = 2745 + 3660 = Rs. 6405
=> Net Profit = 6405 − 6100 = Rs. 305
=> Net Profit % = (305 ÷ 6100) × 100
=> Net Profit % = 5%
Therefore The correct answer is 5% profit.
Additional Information
Same Selling Price Case
If two articles are sold at the same Selling Price (SP), one at x% profit and another at x% loss, there is always a net loss of $(x/10)^2$ %.
Profit and Loss Basics
Profit % and Loss % are always calculated on the Cost Price (CP) unless stated otherwise in the question.
Successive Percentage Change
For two successive changes of a% and b%, the net effective change is given by [a + b + (a × b ÷ 100)]%.

Q55. Answer: (b) 18% increase

Calculation:
100 × 70/100 × 130/100 × 130/100 = 118.3
Increase = 118.3 – 100 = 18.3
Percentage increase = (18.3/100) × 100 = 18.3 % = 18 % increase (approx.)
Therefore The correct answer is 18%
Shortcut Trick
We know, 30% = 3/10

	Before	After
1st Decrease	10	7
2rd Increase	10	13
3rd Increase	10	13
All over increase	1000	1183

So, the increase % is = 183/1000 × 100 = 18.3% ~ 18%

Q56. Answer: (c) $(p^2+ 1)/(p^2- 1)$

Given
$\cos \theta = 2p/(p^2 + 1)$ = base/hypotanuse
Therefore perpendicular = $\sqrt{((p^2 + 1)^2 - (2p)^2)} = p^2 - 1$
Therefore $\operatorname{cosec} \theta$ = hypotanuse/perpendicular = $(p^2 + 1)/(p^2 – 1)$

Q57. Answer: (a) 60

Two tangents drawn from external point on the circle are equal

Therefore AP = AR = 11 cm

BP = BQ = 9 cm

And CQ = CR = 10cm

Therefore Perimeter of triangle = 11 + 11 + 9 + 9 + 10 + 10 = 60 cm

Q58. Answer: (b) √3

Given:

$2 \sin^2\theta + 5 \cos \theta – 4 = 0$

Concept used:

• $\sin2\theta = (1 – \cos2\theta)$

Calculation:

$2 \sin2\theta + 5 \cos \theta – 4 = 0$

$\Rightarrow 2 (1 – \cos^2\theta) + 5 \cos \theta – 4 = 0$

$\Rightarrow 2 – 2 \cos^2 \theta + 5 \cos \theta – 4 = 0$

$\Rightarrow 2 \cos^2\theta – 5 \cos \theta + 2 = 0$

$\Rightarrow 2 \cos^2\theta – 4 \cos \theta – \cos \theta + 2 = 0$

$\Rightarrow 2 \cos \theta (\cos \theta – 2) – 1 (\cos \theta – 2) = 0$

$\Rightarrow (2 \cos \theta – 1) (\cos \theta – 2) = 0$

$\Rightarrow \cos \theta = 1/2$ or $\cos \theta = 2$ (not possible)

Therefore $\cos \theta = 1/2 = \cos 60°$

Therefore $\theta = 60°$

Now

$\cot \theta + \text{cosec } \theta = \cot 60° + \text{cosec } 60° = (1/\sqrt{3}) + (2/\sqrt{3}) = 3/\sqrt{3} = \sqrt{3}$

Therefore $\cot \theta + \text{cosec } \theta = \sqrt{3}$

Shortcut Trick

If we put $\theta = 60°$ this satisfies the equation $2 \sin2\theta + 5 \cos \theta – 4 = 0$

So, the value of

$\Rightarrow \cot \theta + \text{cosec } \theta$

$\Rightarrow \cot 60° + \text{cosec } 60°$

$\Rightarrow (1/\sqrt{3}) + (2/\sqrt{3})$

$\Rightarrow \sqrt{3}$

Q59. Answer: (a) 69

The given ratio of three numbers

1/2 : 2/3 : 3/4

=> 6 : 8 : 9

Let the numbers be 6x, 8x and 9x

According to question

Difference between the greatest and the smallest number = 27

=> 9x – 6x = 27

=> 3x = 27

=> x = 9

The first number = 6x = 6 × 9 = 54

The Second number = 8x = 8 × 9 = 72

The third number = 9x = 9 × 9 = 81

Sum of three numbers = 54 + 72 + 81 = 207

Therefore Average = 207/3 = 69

Q60. Answer: (b) 1562

We know that

$(a − b)^2 = a^2 + b^2 − 2ab = 135 − 2 × 7 = 135 – 14 = 121$

=> a – b = 11

Therefore $(a^3 – b^3) = (a – b) (a^2 + b^2 + ab) = 11 × (135 + 7) = 11 × 142 = 1562$

Q61. Answer: (b) 26

9 years ago, The total age of 5 members = 33 × 5 = 165

Now total age of 8 members = 33 × 8 = 264

And total age of 5 members = 165 + 45 = 210

Total age of 3 new members = 264 – 210 = 54

Now let the age of new younger member = x

Therefore age of middle member = x + 8

And age of eldest member = x + 16

According to question

x + x + 8 + x + 16 = 54

=> 3x + 24 = 54

=> 3x = 30

=> x = 10

Therefore The age of eldest person = x + 16 = 10 + 16 = 26 year

Q62. Answer: (b) 4/5, 3/4

$12 \cot^2\theta – 31 \operatorname{cosec} \theta + 32 = 0$

$=> 12(\operatorname{cosec}^2\theta – 1) – 31 \operatorname{cosec} \theta + 32 = 0$

$=> 12 \operatorname{cosec}^2\theta – 12 – 31 \operatorname{cosec} \theta + 32 = 0$

$=> 12 \operatorname{cosec}^2\theta – 31 \operatorname{cosec} \theta + 20 = 0$

$=> 12 \operatorname{cosec}^2\theta – 16 \operatorname{cosec} \theta – 15 \operatorname{cosec} \theta + 20 = 0$

$=> 4 \operatorname{cosec} \theta (3 \operatorname{cosec} \theta – 4) – 5 (3 \operatorname{cosec} \theta – 4) = 0$

$=> (4 \operatorname{cosec} \theta – 5) (3 \operatorname{cosec} \theta – 4) = 0$

$=> \operatorname{cosec} \theta = 5/4$ or $\operatorname{cosec} \theta = 4/3$

Therefore $\sin \theta = 4/5$ or $\sin \theta = 3/4$

Q63. Answer: (c) 134

Concept used:

Calculation:

15 of 8 + 6 + [(27 - 3) ÷ 6 + 4]

=> 15 of 8 + 6 + [24 ÷ 6 + 4]

=> 15 of 8 + 6 + [4 + 4]

=> 15 of 8 + 6 + 8

=> 15 × 8 + 6 + 8

=> 120 + 6 + 8

=> 134

Therefore The correct answer is 134

Q64. Answer: (b) 116°

Concept used:

If BO & CO are the angle bisectors then angle BOC = 90° + angle A/2

Calculation:

90° + angle A/2 = angle BOC

=> 90° + angle A/2 = 148°

=> angle A/2 = 58°

Therefore angle A = 116°

Q65. Answer: (b) 3

Given:

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

Concept used:

If $a^3 + b^3 + c^3 = 3abc$ then $a + b + c = 0$

Calculation:

Let's assume $a = (2x - 7)$, $b = (2x - 8)$, $c = (2x – 3)$, so

$a + b + c = 0$

$\Rightarrow 2x – 7 + 2x – 8 + 2x – 3 = 0$

$\Rightarrow 6x – 18 = 0$

$\Rightarrow 6x = 18$

Therefore $x = 3$

Q66. Answer: (c) 20

Concept used:

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

When a number is divisible by 8 then its last three digit is also divisible by 8

Calculation:

Therefore 8y2 is divisible by 8 when y = 3

When a number is divisible by 11 then its difference of alternate sum of digit is equal to zero or 11.

Now,

In number 6220x55832

The difference between 6 + 2 + x + 5 + 3 and 2 + 0 + 5 + 8 + 2 must be zero or 11

The difference between (16 + x) and 17 will be zero or 11 when x = 1

Therefore 5x + 5y = 5 × 1 + 5 × 3 = 5 + 15 = 20

Q67. Answer: (d) 6

Formula used:

Amount = Principal $(1 + R/100)^n$

Calculation:

Let the principal and the amount be P and 1.191016P.

$\Rightarrow 1.191016P = P(1 + R/100)^3$

$\Rightarrow 1.191016 = (1 + R/100)^3$

$\Rightarrow 1.06 = 1 + R/100$

$\Rightarrow 0.06 = R/100$

$\Rightarrow R = 6$

Therefore The rate is 6%

Q68. Answer: (b) 121 : 96

In Δ ADE and Δ ABC

angle A = angle A (common)

angle ADE = angle ABC (corresponding)

Therefore ΔADE ~ ΔABC

Therefore $(AD/AB)^2$ = ar ΔADE/ar ΔABC

$\Rightarrow$ ar ΔADE/ar ΔABC = $(5/11)^2 = 25/121$

Area of trapezium DEBC = Area of ΔABC – Area of ΔADE = 121 – 25 = 96

Therefore Area of ΔABC : Area of trapezium DEBC = 121 : 96

Q69. Answer: (a) 33/4

Given:

A can do the work = 5 days

B can do the work = 20 days

C can do the work = 60 days

Calculation:

One-day work of A = 1/5 days ----(1)

One-day work of B = 1/20 days ----(2)

One-day work of C = 1/60 days ----(3)

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Adding equations (1), (2) and (3), we get
One-day work of (A + B + C) = {(1/5) + (1/20) + (1/60)}
=> (A + B + C) = {(12 + 3 + 1)/60}
=> (A + B + C) = 16/60 = 15/4
One-day work of (A + B + C) = 15/4 days
Therefore work done by them together = 60/16 = 15/4 = 33/4 days

Q70. Answer: (b) 2√10

x^4 + x^(-4) = 1442
=> x^4 + 1/x^4 = 1442
Adding 2 both sides
x^4 + 1/x^4 + 2 = 1442 + 2 = 1444
=> $(x^2 + 1/x^2)^2 = (38)^2$
=> $x^2 + 1/x^2 = 38$
Again adding 2 both sides
$x^2 + 1/x^2 + 2 = 38 + 2 = 40$
=> $(x + 1/x)^2 = 40$
=> $x + 1/x = \sqrt{40}$
Therefore x + x^(-1)= 2√10

Q71. Answer: (b) 800

Given:
There was 25% discount and the lady got 20% further discount.
Calculation:
Let the price tag on the bag was Rs. P
Now,
P × (75/100) × (80/100) = 480
=> P × 3/4 × 4/5 = 480
=> P = 800
Therefore Price tag on the bag was Rs. 800
Shortcut Trick
We know, 25% = 1/4 and 20% = 1/5

	MP	SP
1st Discount	4	3
2nd Discount	5	4
All over Discount	20	12

According to the question,
=> 12 unit → 480
Then, 20 unit → 480/12 × 20 = Rs.800

Q72. Answer: (d) 2016-2017

Total imports in 2013-2014 = 824
Total imports in 2014-2015 = 1014
Increase = 1014 – 824 = 190
Percentage increase = (190/824) × 100 = 23.05%
Total imports in 2014-2015 = 1014
Total imports in 2015-2016 = 1137
Increase = 1137 – 1014 = 123
Percentage increase = (123/1014) × 100 = 12.13%
Total imports in 2015-2016 = 1137
Total imports in 2016-2017 = 1513

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Increase = 1513 – 1137 = 376

Percentage increase = (376/1137) × 100 = 33.06%

Total imports in 2016-2017 = 1513

Total imports in 2017-2018 = 1658

Increase = 1658 – 1513 = 145

Percentage increase = (145/1513) × 100 = 9.58%

Therefore the percentage increase in Imports is the highest in comparison to its previous financial year = 2016-2017

Q73. Answer: (c) 2016-2017

Total of exports and imports in 2014-2015 = 1256 + 1014 = 2270

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

Total of exports and imports in 2016-2017 = 1538 + 1513 = 3051

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

Therefore Total of exports and imports is the highest in the year = 2016-2017

Q74. Answer: (d) 1279.6

Total export during the five financial years = 638 + 1256 + 1661 + 1538 + 1305 = 6398

Therefore Average = 6398/5 = 1279.6

Q75. Answer: (b) 3073 : 3199

Total imports during the five financial years = 824 + 1014 + 1137 + 1513 + 1658 = 6146

Total exports during the five financial years = 638 + 1256 + 1661 + 1538 + 1305 = 6398

Required ratio = 6146 : 6398 = 3073 : 3199

Q76. Answer: (b) 21 years

The correct answer is option 2) i.e. 21 years.

• Constitution (74^(th) Amendment) Act, 1992 has introduced a new Part IXA in the constitution which deals with Municipalities in an article 243 P to 243 ZG.

• Article 243 V describes disqualification criteria of age requirement for becoming a member of a Municipality.

• A member is disqualified to be chosen as a member of the municipality if he/she is disqualified under any law to be elected as MLA.

• The minimum age to be qualified as a member is 21 years.

Q77. Answer: (a) Assam

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

• The Kamakhya Devi Temple is one of the main 51 Shakti Peethas in the country.

• It is situated on the Nilachal Hills in Guwahati, Assam.

• It is believed to be the place where the Yoni of Goddess Sati fell.

Q78. Answer: (a) Gujarat

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

Key Points

• The annual Tarnetar Mela that takes place in Sundernagar, Gujarat.

• Tarnetar is basically a tiny village, about 200 km from Ahmedabad. This little hamlet comes alive during the festival, with people hitting the festive mode.

• It is said that this traditional fair, celebrating Draupadi’s swayamvar, began some 200 to 250 years ago.

• The festival and fair are organised at the Trinetreshwar Mahadev temple (the three-eye-god), which was constructed back in the 19th century.

• This temple is the focal point of the fair, and this is where all the festivities are held.

• It dates back to the Solanki era, and celebrate the three-day festival with much enthusiasm.

Q79. Answer: (a) Rahul Dravid

The correct answer is option 1, i.e. Rahul Dravid.

• Rahul Dravid was the head coach of the U-19 India team which won the 2018 World Cup.

• Rahul Dravid will now take over the role of Head of Cricket at the National Cricket Academy (NCA).

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• Sitanshu Kotak and Paras Mhambrey have been named the respective head coaches of the India A and U19 teams, according to ICC.

• Dravid, who was appointed as the Head of Cricket at the National Cricket Academy (NCA), will make way from the role of head coach of these two teams.

Q80. Answer: (b) France

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

• International Bureau of Weights and Measures (BIPM), international organization founded to bring about the unification of measurement systems, to establish and preserve fundamental international standards and prototypes, to verify national standards, and to determine fundamental physical constants.

• The bureau was established by a convention signed in Paris on May 20, 1875, effective January 1876.

• In 1921 a modified convention was signed.

• The convention provides for a General Conference that meets every four years to consider required improvements or modifications in standards.

• An International Committee of Weights and Measures, composed of 18 scientists elected by the conference, meets annually to monitor worldwide uniformity in units of measure.

• The bureau headquarters at Sèvres, France, serves as a depository for the primary international standards and as a laboratory for certification and comparison of national standard copies.

Q81. Answer: (c) Changi Airport

The correct answer is option 3, i.e. Changi Airport.

• According to Skytrax World Airport Awards, being a global travel leader means constantly striving to improve, innovate and impress.

• And so for 2019 -- and for the seventh time in a row -- Singapore Changi Airport is crowned the world's best aviation hub, just in time for the opening of the much-awaited Jewel Changi terminal, in April 2019.

• At number two on the list is Tokyo International Airport (Haneda), up one place from 2018.

• According to the Skytrax World Airport Awards, New Delhi's IGI Airport was eight points up this year after featuring at the 66th spot in 2018.

• New Delhi's Indira Gandhi International (IGI) Airport is India's best but ranks 59th globally.

• Airports in Mumbai, Hyderabad and Bengaluru also featured in the list of world's best airports.

Q82. Answer: (c) Indra Nooyi

The correct answer is option 3, i.e. Indra Nooyi.

• The International Cricket Council (ICC) today announced that PepsiCo Chairman and CEO Indra Nooyi has been appointed to the ICC Board as the organization’s first independent female director.

• Mrs Nooyi will join the Board in June 2018 to align with the term of the ICC Independent Chairman, following the unanimous confirmation of her appointment at today’s meeting.

Q83. Answer: (a) Alia Bhatt

The correct answer is option 1, i.e. Alia Bhatt.

• 64^(th) Filmfare Awards, 2019.

Category	Winner
Best Film	Raazi
Critics’ Award for Best Film	AndhaDhun
Best Actor in a Leading Role (Female)	Alia Bhatt, Raazi
Best Actor in a Leading Role (Male)	Ranbir Kapoor, Sanju
Best Director	Meghna Gulzar, Raazi
Best Debut Actor(Female)	Sara Ali Khan, Kedarnath
Best Debut Actor(Male)	Ishaan Khatter, Beyond The Clouds

Q84. Answer: (d) Sweden

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

• Sweden will host an international conference against anti-Semitism in memory of the Holocaust in October 2020.

• It will be held in Malmo, Southern Sweden, on October 27 and 28, 20 years after the Declaration of the Stockholm International Forum on the Holocaust and 75 years after the liberation of the Auschwitz concentration camp.

• The decision to fight against anti-Semitism is taken after the relations with Israel have been in trouble since the Nordic state's recognition of a Palestinian state by Lofven's Government in 2014.

• After the attacks in Paris and Copenhagen in 2015, the Simon Wiesenthal Centre had called for a European conference against anti-Semitism.

Notes:

• Anti-Semitism - hostility towards or discrimination against Jews as a religious or racial group.

• The term anti-Semitism was coined in 1879 by the German agitator Wilhelm Marr to designate the anti-Jewish campaigns underway in central Europe at that time.

Q85. Answer: (d) Uranium

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

• Uranium deposits occur in Jadugora in Singhbhum district and Hazaribagh districts of Jharkhand, Gaya district of Bihar, and in the sedimentary rocks in Saharanpur district of Uttar Pradesh.

• Some uranium is found in the copper mines of Udaipur in Rajasthan.

• India produces about 2 per cent of the world's uranium. The total reserves of uranium are estimated at 30,480 tonnes.

Note:

• Uranium is a silvery-grey metallic radioactive chemical element. It is only naturally formed in supernova explosions.

• Uranium, thorium, and potassium are the main elements contributing to natural terrestrial radioactivity.

• Uranium has the chemical symbol U and atomic number 92.

• Uranium isotopes in natural uranium are U-238 (99.27%) and U-235 (0.72%).

• Largest viable deposits of Uranium in the world are found in Australia, Kazakhstan, and Canada.

Q86. Answer: (b) Seymour Cray

The correct answer is option 2, i.e. Seymour Cray

Additional Information

• The notion of a supercomputer first arose in the 1960s when an electrical engineer named Seymour Cray, embarked on creating the world's first fastest computer.

• Seymour Cray is widely known as the father of supercomputing.

• Seymour's passion for building scientific computers led him to help start Control Data Corporation (CDC) in 1957.

• There he realized his goal of building the fastest scientific computer ever, the CDC 1604.

• It was the first fully transistorized commercial computer — he had eliminated vacuum tubes.

• Release of the CDC 6600, which was considered the world's first actual supercomputer, followed in 1963.

• The CDC 6600 was capable of 9 megaflops (million floating-point operations per second) of processing power and was cooled by Freon. The CDC 7600 was next.

• Running at 40 megaflops, it, in turn, became the world's first fastest supercomputer.

Q87. Answer: (b) 25th May

The correct answer is option 2, i.e. 25th May.

• World Thyroid Day is celebrated on 25 May every year to raise awareness and reduce the prevalence of thyroid-related disorders to commemorate 11 YEARS of Global Thyroid Awareness.

• World Thyroid Day (WTD), May 25th, is dedicated to thyroid patients and to all who are committed to the study and treatment of thyroid diseases worldwide.

• The year 2011 is of special importance since it was the first time that World Thyroid Day would be celebrated by the American Thyroid Association, the European Thyroid Association, the Asia-Oceania Thyroid Association and the Latin American Thyroid Society.

Q88. Answer: (a) Dadabhai Naoroji

The correct answer is option 1, i.e. Dadabhai Naoroji.

• Dadabhai Naoroji, became the president of Indian National Congress(INC) three times.

• Firstly, He presided over its (INC) second session in Kolkata (then Calcutta) in 1886, second time he became the president of the Indian National Congress (INC) at Lahore in 1893 and, later, for the third time again in Kolkata in 1906.

• He is widely referred as "The Grand Old Man of India" for his hard work to attain "Swaraj".

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Q89. Answer: (b) Ohm

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

• Electrical Resistance's SI unit is ohm, represented by the Greek letter Ω.

• According to Ohm's law,

R = V/I

• If the potential difference across the two ends of a conductor is 1 V and the current through it is 1 A, then the resistance R, of the conductor is 1 Ω.

• That is, 1 ohm =1 volt/1 ampere

Q90. Answer: (b) Portable Document Format

The correct answer is option 2, i.e. Portable Document Format.

• The full form of the term PDF is Portable Document Format. It stores text and images and can be opened on any Operating System (OS), which, in turn, makes it easy to share and store.

• To elaborate further, the PDF was created back in the early '90s to realize the dream of a sustainable, paperless office. Developed by Adobe, a PDf file can capture all the elements of a printed document as an electronic image.

• With PostScript, every individual PDF file can retain the text, formatting, vectors, and even fonts of the original document.

Q91. Answer: (a) Unicorn Startup Company

The correct answer is option 1, i.e. Unicorn startup company.

• The term unicorn was coined in the year 2013 by the founder of the Cowboy Ventures, Aileen Lee when she referred to the 39 startups that had a valuation of more than $1 billion as unicorns. The term was used to put an emphasis on the rarity of such startups.

• The definition of a unicorn startup has remained the same since then.

• A unicorn is a startup company founded after 2003 which has a current valuation of more than $1 billion.

Q92. Answer: (b) Balram Bhargava

The correct answer is option 2, i.e. Balram Bhargava.

• Director General of the Indian Council of Medical Research (ICMR) Professor Balram Bhargava has bagged the award "2019 Dr Lee Jong-wook Memorial Prize for Public Health" at the 72nd World Health Assembly in Geneva in May, 2019.

• He bagged the award for his achievements as a clinician, innovator, researcher and trainer.

Q93. Answer: (d) Integrity

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

• The Preamble to the Indian Constitution is based on the 'Objectives Resolution', drafted and moved by Pandit Nehru, and adopted by the Constituent Assembly.

• It has been amended by the 42nd Constitutional Amendment Act (1976), which added three new words—socialist, secular and integrity.

• The 42nd Amendment Act (1976) is known as 'Mini-Constitution' due to the important and large number of changes made by it in various parts of the Constitution.

Q94. Answer: (d) Glenn Maxwell

The correct answer is option 4, i.e. Glenn Maxwell.

• Steve Smith, David Warner and Cameron Bancroft were banned by Cricket Australia for ball tampering.

• Steve Smith and David Warner were banned for one year by Cricket Australia while Cameron Bancroft was suspended for 9 months.

• The trio was handed substantial suspensions for their roles in the ball-tampering scandal in Cape Town in March this year.

Q95. Answer: (c) Chhindwara

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

• Gwalior and Chambal Divisions are administrative subdivisions of Madhya Pradesh consisting 9% & 6% of state population respectively.

• Gwalior Division covers five districts namely Ashoknagar, Datia, Guna, Gwalior, and Shivpuri

• Chambal Division consists of the three districts namely Morena, Bhind and Sheopur.

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Q96. Answer: (a) A person is eligible to receive gratuity only if he has completed a minimum seven years of service with an...

The correct answer is option 1, i.e. A person is eligible to receive gratuity only if he has completed a minimum seven years of service with an organization.

• Gratuity is given by the employer to his/her employee for the services rendered by him during the period of employment.

• It is usually paid at the time of retirement but it can be paid before provided certain conditions are met.

• A person is eligible to receive gratuity only if he has completed a minimum five years of service with an organisation.

• However, it can be paid before the completion of five years at the death of an employee or if he has become disabled due to accident or disease.

Q97. Answer: (c) West Bengal

The correct answer is option 3, i.e. West Bengal.

• The cultivation of jute in India is mainly confined to the eastern region of the country.

• The jute crop is grown in nearly 83 districts of seven states - West Bengal, Assam, Orissa, Bihar, Uttar Pradesh, Tripura and Meghalaya.

• West Bengal alone accounts for over 50 percent raw jute production.

• The leading world's jute producing countries are India, Bangladesh, China and Thailand.

• India is the world's largest producer of raw jute and jute goods, contributing to over 50 percent and 40 percent respectively of global production.

• Jute crop requires humid climate with temperature fluctuating between 24 degree Celsius and 38 degree Celsius.

• Minimum rainfall required for jute cultivation is 1000 mm.

• New grey alluvial soil of good depth receiving silt from annual floods is most suitable for jute growth.

• However, jute is grown widely in sandy looms and clay loams.

Q98. Answer: (b) Bones

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

• Osteoporosis causes bones to become weak and brittle — so brittle that a fall or even mild stresses such as bending over or coughing can cause a fracture. Osteoporosis-related fractures most commonly occur in the hip, wrist or spine.

• Bone is living tissue that is constantly being broken down and replaced. Osteoporosis occurs when the creation of new bone doesn't keep up with the loss of old bone.

• Osteoporosis affects men and women of all races. But white and Asian women — especially older women who are past menopause — are at highest risk. Medications, healthy diet and weight-bearing exercise can help prevent bone loss or strengthen already weak bones.

Q99. Answer: (d) 1920

The correct answer is option 4, i.e 1920.

• The Non - Cooperation Movement launched by Mahatma Gandhi on August 1, 1920, was the first mass movement organized nationwide during India's struggle for freedom.

• Nagpur session in December 1920 defined the Non - Cooperation program.

• If non-cooperation was effectively carried out, said Gandhiji, India would win swaraj within a year.

• As a consequence of the Non-Cooperation Movement, the British Raj was shaken to its foundations for the first time since the Revolt of 1857.

• Then, in February 1922, a group of peasants attacked and torched a police station in the hamlet of Chauri Chaura, in the United Provinces (now, Uttar Pradesh and Uttarakhand).

• Several constables perished in the conflagration. This act of violence prompted Gandhiji to call off the movement altogether

Q100. Answer: (a) Tuberculosis

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

• Mycobacterium tuberculosis (Mtb), the ethiological agent of tuberculosis (TB), is a leading cause of human disease and death, particularly in developing countries.

• BCG, or bacille Calmette-Guerin, is a vaccine for tuberculosis (TB) disease.

• The BCG vaccine contains live bacteria that have been weakened (attenuated) so that they stimulate the immune system but do not cause disease in healthy people.

• BCG is used in many countries with a high prevalence of TB to prevent childhood tuberculous meningitis and miliary disease.

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