SSC CHSL Previous Paper 12 (Held On: 5 Jul 2019 Shift 2) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. Fill in the blank with the most appropriate word.

The child made _____ as he was getting late for school.

(a) rapidity
(b) hurry
(c) haste
(d) swiftness

Q2. Select the correctly spelt word.

(a) saprate
(b) separate
(c) saperate
(d) separete

Q3. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Yet, whatever was printed was profound and even inspirational.

B. In pre-independence India, there were two kinds of newspapers.

C. The other spoke of the aspirations of the people and pointed out injustice.

D. One set was supportive of colonial power.

(a) BACD
(b) BDCA
(c) ABDC
(d) DCAB

Q4. Select the most appropriate synonym of the given word.

DEFIANCE

(a) deference
(b) assistance
(c) resistance
(d) pretence

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.

Spain and Italy have produced the (1) ____ painters and sculptors because (2) __ fine arts appeal more to the (3) __ than to the intellect. These countries have (4) __ very few men of science in comparison (5) ____ artists and poets.

Q5. Select the most appropriate option to fill in blank number 1

(a) greater
(b) great
(c) greatest
(d) more greater

Q6. Select the most appropriate option to fill in blank number 2

(a) these
(b) that
(c) what
(d) this

Q7. Select the most appropriate option to fill in blank number 3

(a) ambition
(b) imagination
(c) creation
(d) situation

Q8. Select the most appropriate option to fill in blank number 4

(a) presented
(b) prepared
(c) perplexed
(d) produced

Q9. Select the most appropriate option to fill in blank number 5

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

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

TEMPERATE

(a) tentative
(b) extreme
(c) temporary
(d) moderate

Q11. Select the most appropriate indirect form of the given sentence.

He said to the grocer, "What is the price of tomatoes?"

(a) He asked the grocer what was the price of tomatoes.
(b) He asked the grocer that what was the price of tomatoes.
(c) He asked the grocer what is the price of tomatoes.
(d) He asked the grocer what the price of tomatoes was.

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

A. Yet, it is India that is the home of the malnourished child.
B. Some major ones are lack of food, sanitation and proper healthcare.
C. The reasons for malnutrition among Indian children are many.
D. Millions of rupees have been spent on child care in the country.

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

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Q13. Identify the segment which contains the grammatical error.

The members of the victorious football team as well as the captain was congratulated.

(a) was congratulated
(b) The members of the
(c) victorious football team
(d) as well as the captain

Q14. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

You must not prevent me to do what I want.

(a) from doing what I want
(b) No substitution
(c) to do what I am wanting
(d) by doing what I wanted

Q15. Select the most appropriate meaning of the given idiom.

Take to task

(a) to rebuke
(b) to give an award
(c) to praise
(d) to assign work

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

EXCEPTIONAL

(a) unique
(b) rare
(c) ordinary
(d) optional

Q17. Select the most appropriate meaning of the given idiom.

Turn a deaf ear

(a) To pay no heed
(b) To listen carefully
(c) To pay attention
(d) To make someone deaf

Q18. Fill in the blank with the most appropriate word.

The old man was _____ at the hospital after a long illness.

(a) relaxing
(b) relenting
(c) recuperating
(d) rejoicing

Q19. Identify the segment of the sentence, which contains the grammatical error, If there is no error mark "No Error".

No sooner did the (A)/ comedian begin his act (B)/ when the audience roared with laughter. (C)/ No error (D)

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

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

An office with high salary but no work

(a) bureaucracy
(b) sinecure

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(c) autocracy
(d) honorary

Q21. Select the wrongly spelt word.
(a) Tyranny
(b) Trivial
(c) Typical
(d) Tution

Q22. Select the most appropriate word for the group of words.
The state of remaining unmarried
(a) feminism
(b) polygamy
(c) monogamy
(d) celibacy

Q23. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.
The manufacturer conformed with the specifications given from the client.
(a) with the specifications given of
(b) by the specifications given for
(c) to the specifications given by
(d) No substitution

Q24. Select the most appropriate antonym of the given word.
DESPAIR
(a) pride
(b) hope
(c) dearth
(d) calm

Q25. Select the most appropriate passive form of the given sentence.
They were distributing food grains among the poor.
(a) Food grains were distributed among the poor.
(b) The poor will be distributed among food grains.
(c) Food grains were being distributed among the poor.
(d) Food grains will be distributed among the poor.

GENERAL INTELLIGENCE

Q26. 'Gynaecology' is related to 'Women' in the same way as 'Paediatrics' is related to '_____'.
(a) Treatment
(b) Children
(c) Men
(d) Human beings

Q27. 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:
Some children are clever.
All children are honest.
Conclusions:
I. Some clever are children.

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II. Some honest are children.

III. Some clever are honest.

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

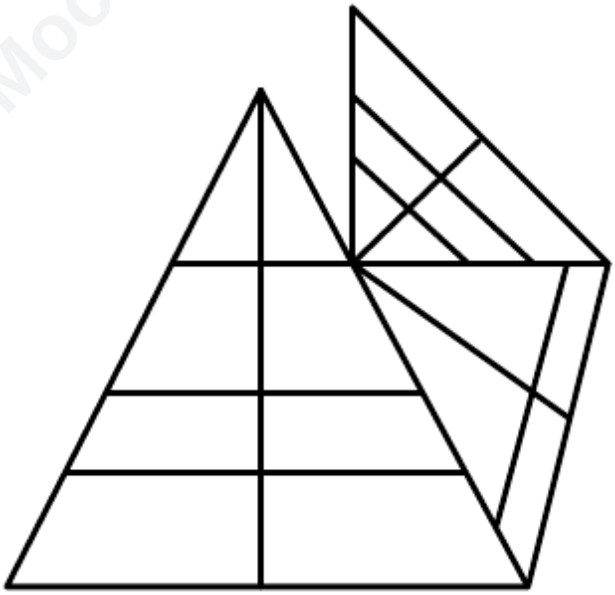
Q28. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

(a) 277
(b) 239
(c) 253
(d) 233

Q29. In a code language, ADVOCATE is written as QXFCCRYA. How will DIALOGUE be written as in that language?

(a) NCKFCSEM
(b) NCFKCSEN
(c) NCKFMESC
(d) MCKFCSEM

Q30. How many triangles are present in the given figure?



(a) 27
(b) 26
(c) 28
(d) 25

Q31. 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.

KSDO : NPGL ? SBJY : ?

(a) VYNW
(b) WYMV
(c) VZMW
(d) VYMV

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

(56, 38, 96)

(a) (12, 18, 50)
(b) (28, 48, 86)
(c) (10, 20, 40)
(d) (16, 14, 40)

Q33. 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.

25 : 600

(a) 14 : 210
(b) 16 : 256
(c) 18 : 306
(d) 20 : 420

Q34. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

g _ k m _ s k m _ g k m _ s k m g g k _ p s _ m

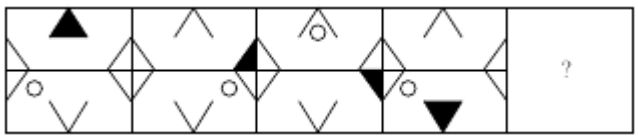
(a) gpgpkm
(b) gspgkm
(c) gpgpmk
(d) gpgskm

Q35. 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.

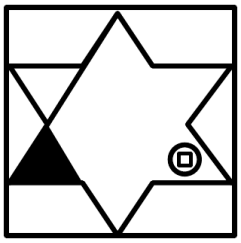
Telephone : Communication

(a) Refrigerator : Equipment
(b) Air Cooler : Water
(c) Television : Entertainment
(d) Heater : Electricity

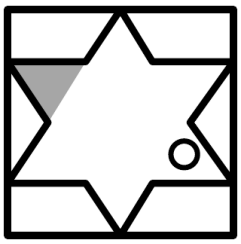
Q36. Select the figure that will come next in the following figure series.



(a)

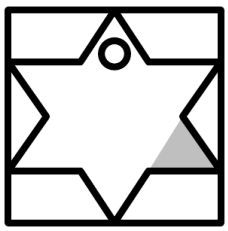


(b)

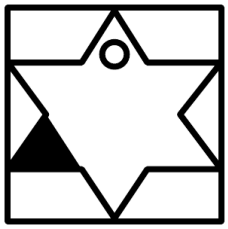


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(c)



(d)



Q37. A + B means 'A is brother of B'
A – B means 'A is daughter of B'
A × B means 'A is husband of B'
A ÷ B means 'A is son of B'
If J + R ÷ T × K – Z, then how is K related to J?
(a) Sister
(b) Mother
(c) Maternal grandmother
(d) Paternal grandmother

Q38. If FASHION is coded as 6118965, then how will LASTING be coded as?
(a) 3112957
(b) 3113947
(c) 2112857
(d) 3112947

Q39. Which number will replace the question mark (?) in the following series?
20, 10, 10, 15, 30, ?
(a) 90
(b) 75
(c) 60
(d) 45

Q40. Three persons A, B, and C have different amounts of rupees with them. If C takes Rs. 11 from A, C will have equal amount as B has. B and C together have total Rs. 111. How many rupees does C have?
(a) 60
(b) 65
(c) 70
(d) 50

Q41. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

5 4 r g B G 9 Q 6

(a)

9 0 6 3 8 b n 4 d

(b)

9 4 J 6 B 3 P D d

(c)

ɐ Ọ q ɡ Ƀ d ᴎ ᔭ b

(d)

ə ʊ ɐ Ɔ Ƀ ƿ ɿ ᔭ ƨ

Q42. Which two signs should be interchanged in the following equation to make it correct?

615 – 377 ÷ 29 × 15 + 308 = 502

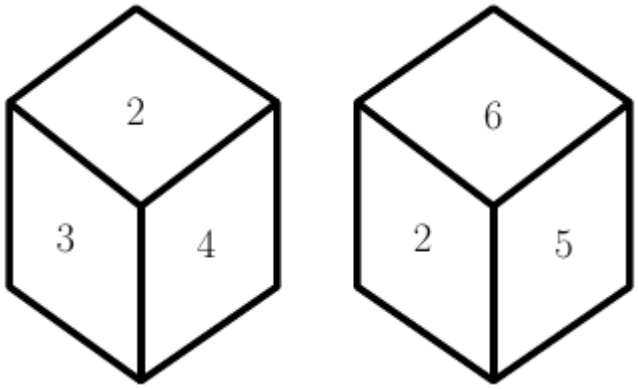
(a) × and +
(b) • and –
(c) ÷ and ×
(d) • and ÷

Q43. Select the correct alternative to indicate the arrangement of the following activities in a logical and meaningful order.

1. Filling-in application form
2. Bank Account opened
3. Submitting necessary documents
4. Account closing
5. Depositing and withdrawing money

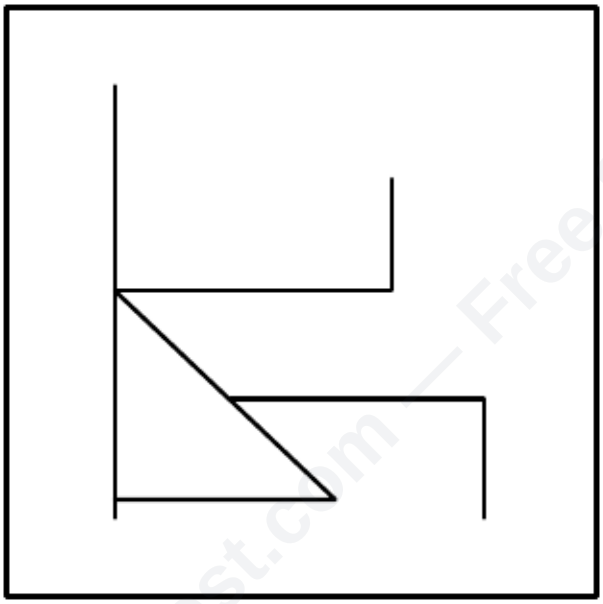
(a) 1, 3, 2, 5, 4
(b) 1, 3, 5, 2, 4
(c) 1, 3, 2, 4, 5
(d) 2, 5, 4, 1, 3

Q44. 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 2.

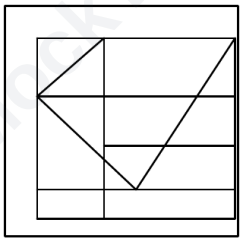


(a) 6
(b) 3
(c) 4
(d) 1

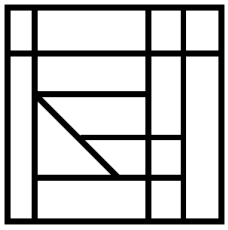
Q45. Select the option in which Figure-X is embedded. (Rotation is not allowed)



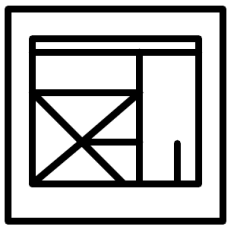
(a)



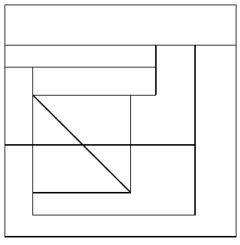
(b)



(c)



(d)

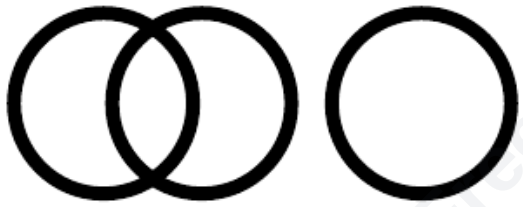


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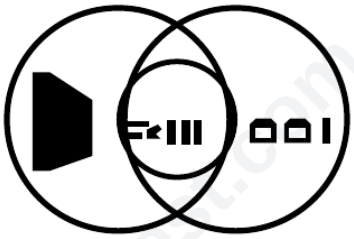
Q46. Select the Venn diagram that best illustrator the relationship between the following classes.

Mango, Eatable, Liquid

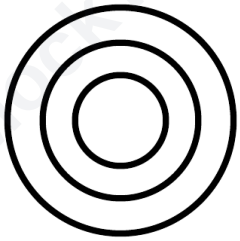
(a)



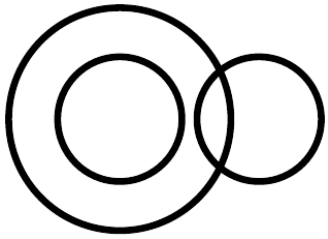
(b)



(c)

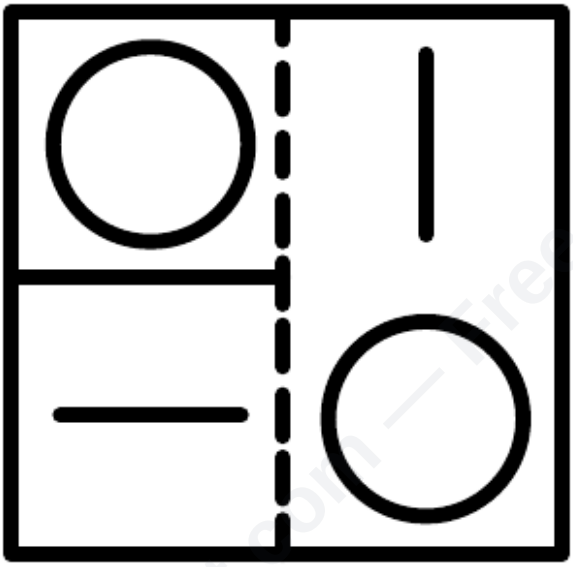


(d)

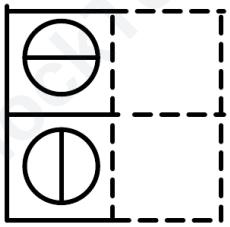


Q47. A figure of transparent sheet with a pattern is given below, Select the option that shows how the pattern would appear when the transparent sheet is folded at the dotted line.

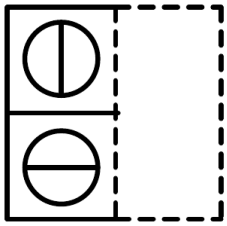
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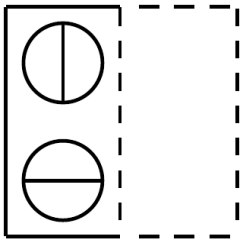
(a)



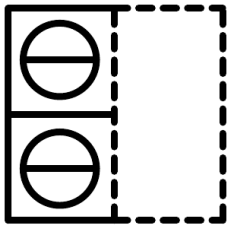
(b)



(c)



(d)



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Q48. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

(a) Scanner
(b) Photocopier
(c) Microwave
(d) Printer

Q49. Three of the following four letter-clusters are alike in a certain way and one is different.
Pick the odd one out.

(a) CFJM
(b) KNQT
(c) SVYB
(d) PSVY

Q50. Select the set in which the numbers are related in the same way as are the numbers of the following set.
(16, 24, 88)

(a) (14, 21, 77)
(b) (18, 27, 98)
(c) (20, 30, 100)
(d) (12, 18, 64)

QUANTITATIVE APTITUDE

Q51. In triangle ABC, the length of BC is less than twice the length of AB by 2 cm. The length of AC exceeds the length of AB by 10 cm. The perimeter is 32 cm. The length (in cm) of the smallest side of the triangle is:

(a) 4 cm
(b) 10 cm
(c) 8 cm
(d) 6 cm

Q52. A circle is inscribed in a triangle ABC. It touches sides AB, BC, and AC at points P, Q, and R respectively. If BP = 5 cm, CQ = 7 cm and AR = 6 cm, then the perimeter (in cm) of the ΔABC is:

(a) 37.25
(b) 35
(c) 37.5
(d) 36

Q53. A man bought 2 articles for Rs. 4158 each. He sold one article at a 15% loss. Then at what percent profit the other article should be sold so that no profit/loss percentage is earned?

(a) 18%
(b) 10%
(c) 12%
(d) 15%

Q54. If a 10 - digit number 7220x558y2 is divisible by 88, then the value of (5x + 5y) is:

(a) 15
(b) 35
(c) 10
(d) 25

Q55. A, B and C can complete a piece of work in 4, 20 and 60 days respectively. Working together, they can complete the same work in how many days?

(a) 31/19
(b) 53/19
(c) 60/19

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(d) 51/19

Q56. If $6(\sec^2 59° - \cot^2 31°) + 2/3\sin 90° - 3\tan^2 56° \text{ ytan}^2 34° = y/3$, then the value of y is:

(a) 2
(b) -23
(c) -2
(d) 23

Q57. Two numbers are in the ratio 7 : 5, on diminishing each of them by 40, the ratio becomes 27 : 17. The difference between the number is:

(a) 25
(b) 75
(c) 50
(d) 40

Q58. If $\sec\theta = 4x$ and $\tan\theta = 4/x$, $(x \neq 0)$ then the value of $8(x^2 - 1/x^2)$ is:

(a) 1/2
(b) 1/6
(c) 1/8
(d) 1/4

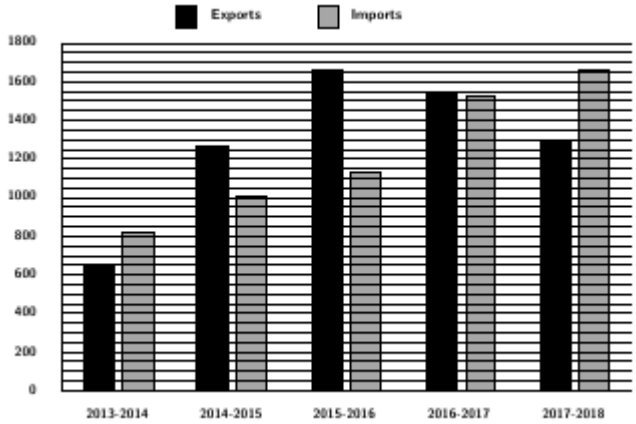
Q59. If $\cos x = -1/2$ and $\pi < x < 3\pi/2$, then the value of $4\tan^2 x + 3\text{cosec}^2 x$ is:

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

Q60. The ratio of the areas of two triangles ABC and PQR is 3 : 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) 2 : 1
(b) 1 : 1
(c) 25 : 9
(d) 9 : 25

Q61. The given Bar Graph presents the Imports and Exports of an item (in tonnes) manufactured by a company for the five financial years, 2013 - 2014 to 2017 - 2018.



In which financial year the percentage increase in total of Export and Imports is the highest in comparison to its previous financial year?

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

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Q62. In a ΔABC, the bisectors of angle B and angle C meet at point O within the triangle. If angle A = 116°, then the measure of angle BOC is:

(a) 116°
(b) 148°
(c) 85°
(d) 74°

Q63. If 5^(cbrtx) + 12^(cbrtx) = 13^(cbrtx), then the value of x is:

(a) 2
(b) 4
(c) 8
(d) 1

Q64. 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^m = a^nc^p, 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) -1
(b) 2
(c) 0
(d) 1

Q65. 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) 100
(b) 120
(c) 140
(d) 150

Q66. The simplified value of

((31/5 - 3/5) ÷ 8/5)/(11/(7) ÷ {6/(7) - (1/7 ÷ 1/5)})

(a) 13/64
(b) 13/7
(c) 13/8
(d) 13/16

Q67. A person purchased a vehicle for Rs. 5,90,828 and sold it for Rs. 6,52,920. What is the profit percent he earned on this vehicle (correct to two decimal places)?

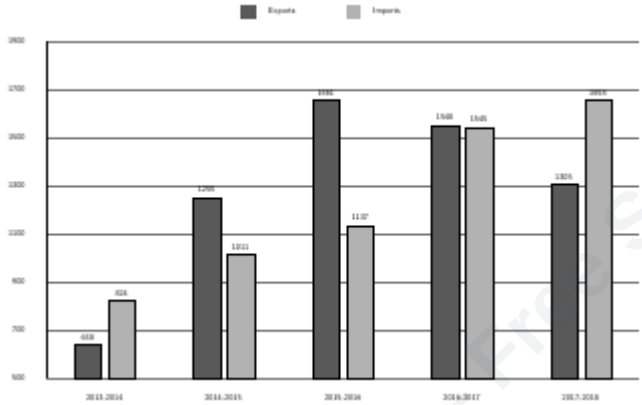
(a) 11.55%
(b) 9.55%
(c) 9.51%
(d) 10.50%

Q68. The average age of four brothers is 15 years. If their father is included, the average is increased by 5 years. The age of the father (in years) is:

(a) 36
(b) 38
(c) 35
(d) 40

Q69. The given Bar Graph presents 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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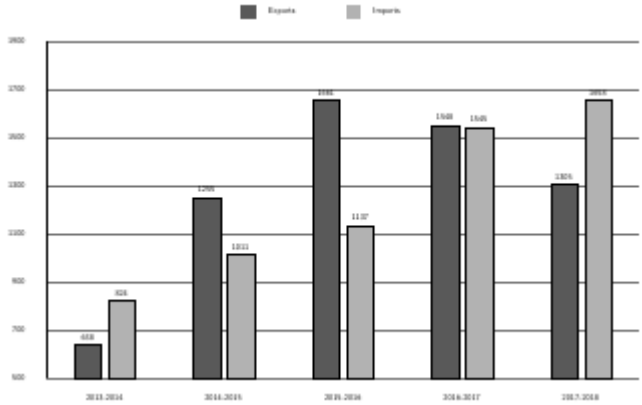
What is the average of total Imports and Export (in tonnes) during the five financial years?

(a) 2552.4
(b) 2325.9
(c) 2516.4
(d) 2279.5

Q70. A number is increased by 30%, then decreased by 30%, then further decreased by 30%. What is the net increase/decrease percent in the number (correct to the nearest integer)?

(a) 40% decrease
(b) 36% increase
(c) 40% increase
(d) 36% decrease

Q71. The given Bar Graph presents the Imports and Exports of an item (in tonnes) manufactured by a company for the five financial years, 2013 - 2014 to 2017 - 2018.



What is the ratio of total Imports to total exports during 2013 - 2014, 2015 - 2016 and 2017 - 2018?

(a) 3619 : 3604
(b) 3604 : 3073
(c) 4175 : 4011
(d) 4011 : 4175

Q72. There was 25% off on the shirt. A lady bought that shirt and got an additional 20% discount for paying in cash and a further 10% discount for being a loyal customer. She paid Rs. 324. What was the price tag (in Rs.) on the shirt?

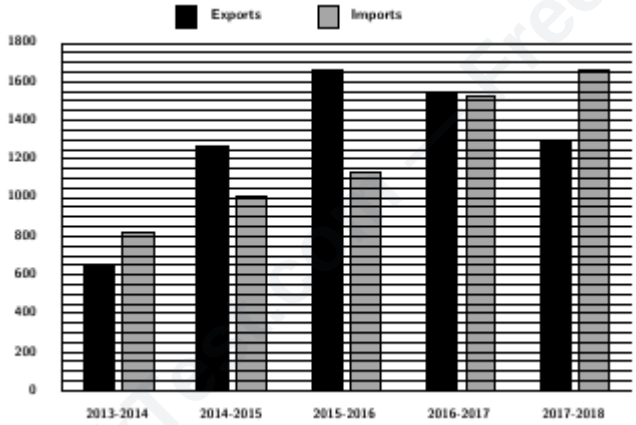
(a) 750
(b) 725
(c) 600
(d) 650

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Q73. If x = √3 - √2, then the value of x³ - x^(-3) is:

(a) -22√3
(b) 22√3
(c) 22√2
(d) -22√2

Q74. The given Bar Graph presents the Imports and Exports of an item (in tonnes) manufactured by a company for the five financial years, 2013 - 2014 to 2017 - 2018.



In which financial year the total of Exports and Imports is lower?

(a) 2013 - 2014
(b) 2014 - 2015
(c) 2017 - 2018
(d) 2015 - 2016

Q75. 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) 3
(b) 2
(c) -2
(d) -3

GENERAL AWARENESS

Q76. As of May 2019, which of the following nations has won the maximum number of Olympic gold medals in men's hockey?

(a) Pakistan
(b) India
(c) Australia
(d) Spain

Q77. When is National Science Day observed in India every year?

(a) 2nd January
(b) 15th March
(c) 5th May
(d) 28th February

Q78. Which one of the following brings out an annual publication titled 'National Accounts Statistics' containing Gross Domestic Product, Fixed Capital Formation and other macroeconomic aggregates?

(a) The Central Statistics Office (CSO)
(b) The Indian Statistical Institute (ISI)
(c) The Reserve Bank of India (RBI)
(d) The National Sample Survey Office (NSSO)

Q79. Which among the following is the largest coalfield in India?

(a) Rampur
(b) Jharia
(c) Yellandu
(d) Talcher

Q80. Who among the following won the '2019 Pulitzer Prize for Poetry'?

(a) Andrew Sean Greer
(b) Frank Bidart
(c) Forrest Gander
(d) Richard Powers

Q81. As of May 2019, who among the following has won the maximum number of Grand Slam tournaments in Men's Tennis?

(a) Ivan Lendl
(b) Pete Sampras
(c) Andre Agassi
(d) Roger Federer

Q82. _____ of the Constitution of India deals with emergency due to war, external aggression or armed rebellion.

(a) Article 347
(b) Article 350
(c) Article 269
(d) Article 352

Q83. In 2019, Skytrax released its 'World Airport Survey' which ranked the world's Top 100 Airports for 2019. Identify the airport that has been correctly paired with its rank.

(a) Indira Gandhi International Airport - 60th
(b) Chhatrapati Shivaji Maharaj International Airport - 57th
(c) Kempegowda International Airport - 75th
(d) Rajiv Gandhi Hyderabad International Airport - 66th

Q84. Which was India's first full-length 'talkie' film?

(a) Alam Ara
(b) Bhakta Prahlada
(c) Indrasabha
(d) Shirin Farhad

Q85. When is Menstrual Hygiene Day observed globally?

(a) 28th May
(b) 12th June
(c) 10th March
(d) 12th April

Q86. Who among the following was appointed as the chairperson of the News Broadcasting Standards Authority (NBSA) in May 2019?

(a) Justice Adarsh Kumar Goel
(b) Justice A K Sikri
(c) Justice Madan Lokur
(d) Justice H L Dattu

Q87. What is the name of the anti-satellite missile test conducted by DRDO in March 2019 from the Dr. A P J Abdul Kalam Island launch complex?

(a) Mission Akash
(b) Mission Suryamandal

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(c) Mission Shakti
(d) Mission Antariksh

Q88. Who among the following won the Women's Singles title at the '2019 Australian Open' tennis tournament?
(a) Angelique Kerber
(b) Elina Svitolina
(c) Caroline Wozniacki
(d) Naomi Osaka

Q89. Which of the following Indian companies has been recognized as one of the World's Most Ethical Companies by the Ethisphere Institute in February 2019?
(a) Bharat Heavy Electricals Ltd.
(b) Tata Chemicals
(c) Jindal Steel
(d) Tata Steel

Q90. Which one of the following is used for indexing dearness allowance to government employees for increase in prices in India?
(a) Consumer Price Indices (CPI)
(b) Bank rates
(c) Statutory Liquidity Ratio (SLR)
(d) Interest rates

Q91. Which of the following is the smallest neighbouring country of India in terms of population?
(a) Maldives
(b) Nepal
(c) Bangladesh
(d) Afghanistan

Q92. Which of the following is the largest river island in India?
(a) Gundu Island
(b) Divar Island
(c) Diu Island
(d) Majuli Island

Q93. Name the sea that separates Asia and Africa with countries such as Egypt and Sudan on the African side and Saudi Arabia on the Asian side.
(a) Mediterranean Sea
(b) Red Sea
(c) Black Sea
(d) Caspian Sea

Q94. Which one of the following is an X-linked, recessive disorder caused by the deficiency of functional plasma clotting factor VIII (FVIII), which may be inherited or arise from spontaneous mutation?
(a) Leukemia
(b) Venous Thrombosis
(c) Multiple Myeloma
(d) Haemophilia A

Q95. Which one of the following is NOT an operating system?
(a) Intel
(b) Unix
(c) Linux
(d) Windows

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Q96. _____ was awarded the 'Kaisar-i-Hind' in 1915 by Lord Hardinge of Penshurst for his contribution to ambulance services in South Africa.

(a) Mahatma Gandhi
(b) Subhash Chandra Bose
(c) Muhammad Iqbal
(d) Bal Gangadhar Tilak

Q97. Who among the following defeated HarshaVardhan in 618 CE?

(a) Alexander
(b) Pulakeshin II
(c) Pushyamitra
(d) Chandragupta I

Q98. Who is the author of the famous book 'Meghdoot'?

(a) Bhasa
(b) Kalidasa
(c) Sudraka
(d) Vatsyayana

Q99. Which one of the following is defined as "a private network that uses Internet technology and the public telecommunication system to securely share part of a business's information or operations with suppliers, vendors, partners, customers or other businesses"?

(a) World Wide Web
(b) Extranet
(c) Local Area Network
(d) Intranet

Q100. Who among the following was the Speaker of the 15th Lok Sabha?

(a) Rabi Ray
(b) P A Sangma
(c) Sumitra Mahajan
(d) Meira Kumar

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) haste

The correct answer is option 3 i.e. haste.

rapidity(noun)- the quality of moving or reacting with great speed.

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hurry(verb)- move or act with great haste.
haste(noun)-urgency of movement or action.
swiftness(noun)-the quality of moving at high speed.
From the context of the sentence is can be inferred that there is a sense of quick action that is shown by option C.
Remaining all the options talk about the speed.
So, contextually chosen option is correct.

Q2. Answer: (b) separate

The correct answer is option 2 separate.
separate- forming or viewed as a unit apart or by itself.

Q3. Answer: (b) BDCA

The correct answer is option 2 i.e. BDCA.
As part B contains two kinds of and part D and C contains one and the other respectively.
It is clear that B should be first and C should come after D.
BDC this is only in the option 2.
So, the answer is BDCA.

Q4. Answer: (c) resistance

The correct answer is option 3 i.e. resistance.
DEFIANCE- open resistance; bold disobedience.
deference- polite submission and respect.
assistance- the action of helping someone by sharing work.
resistance- an ability not to be affected by something.
pretence- an act of showing off.
The chosen option shows the same meaning as the given word.

Q5. Answer: (c) greatest

The correct answer is option 3 i.e. greatest.
As there is THE before the blank we need to use adjective according to it.
The appropriate word here is greatest because it is specifically talking about the best painters and sculptors from Spain and Italy.
Contextually greatest is the perfect choice.

Q6. Answer: (a) these

The correct answer is option 1 i.e. these.
As there is a plural noun after the blank (arts) we need to use determiner according to it.
As that and this both are used for singular they can not be the answer.
These is used for plural so, this will be the answer.

Q7. Answer: (b) imagination

The correct answer is option 2 i.e. imagination.
It can be said that there is a comparison in the sentence because of MORE in the sentence.
After the blank, there is INTELLECT that means- the faculty of reasoning and understanding objectively.
Only imagination can be the opposite of it so the chosen option is correct.

Q8. Answer: (d) produced

The correct answer is 4 i.e. produced.
For the generation we use produce as the men belong to a country.
it can be said that these countries have produced.

Q9. Answer: (b) to

The correct answer is option 2 i.e. to.
Comparison is followed by two prepositions TO and WITH.
As there is only TO in the option it should be chosen as the answer for the blank space.

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Q10. Answer: (d) moderate

The solution is in Hindi. Read it online.

Q11. Answer: (d) He asked the grocer what the price of tomatoes was.

The correct answer is option 4.

In indirect speech we always write sentence in assertive form.

Sub + verb + object.

In the given option only 4 has this construction of the sentence.

So, this will be the answer.

Q12. Answer: (d) DACB

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

As it is clear from part B and C that B will come after C because B talks about the REASON.

and B and C should be the concluding part it should come at last in the arrangement.

Only option 4 has CB at last.

So, the chosen option is correct.

Q13. Answer: (a) was congratulated

The correct answer is option 1 i.e. was congratulated.

The verb will be used according to the first subject and the first subject is members that is plural so verb should also be in plural form.

We need to replace was with were for making the sentence correct.

Q14. Answer: (a) from doing what I want

The correct answer is option 1 i.e. from doing what i want.

• Phrasal Verb: prevent (someone or something) from (doing something)

1. 'Prevent' is followed by preposition 'from' to convey the correct contextual meaning of the phrasal verb.

2. 'from' is followed by V-ing form of the verb.

e.g:The police tried to prevent him from leaving.

Correct Sentence: You must not prevent me from doing what I want.

Q15. Answer: (a) to rebuke

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

The meaning of the given idiom is- to chew someone out for something they've done wrong.

The meaning of the chosen is as same as the meaning of the given idiom.

Q16. Answer: (c) ordinary

The correct answer is option 3 i.e. ordinary.

EXCEPTIONAL- unusual; not typical.

unique- being the only one of its kind; unlike anything else.

rare-(of an event, situation, or condition) not occurring very often.

ordinary- (of an event, situation, or condition) not occurring very often.

optional- available to be chosen but not obligatory.

The chosen option shows the opposite meaning of the given word.

Q17. Answer: (a) To pay no heed

The correct answer is option 1 i.e. to pay no heed.

The meaning of the idiom- refuse to listen or respond to a statement or request.

Q18. Answer: (c) recuperating

The correct answer is 3 i.e. recuperation.

The word used for coming out of a long illness is recuperate.

So, the chosen option is correct.

recuperating- recover from illness or exertion.

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Q19. Answer: (c) C

The correct answer is option 3 i.e. C

Explanation:

• Some conjunctions such as: '; No sooner...than', 'Hardly/scarcely...when', are used in a pair. No sooner..... than is coordinating conjunction and both occur together.

• For example :

• Hardly had I left the cinema hall than I saw the actor himself.

• Hardly had I left the cinema hall when I saw the actor himself.

• Hence in the 3rd part of the sentence, 'than' will be used instead of 'when'.

• Whenever 'did' is used as an auxiliary/helping verb, the main verb will be in 1st form.

• In case of these conjunctions, an inverted form of the verb will be used as illustrated in the examples above.

Correct Sentence: No sooner did the comedian begin his act than the audience roared with laughter.

Q20. Answer: (b) sinecure

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

Let's look at the meaning of the given options-

• Bureaucracy- a system of government in which most of the important decisions are taken by state officials rather than by elected representatives.

• Sinecure- a position requiring little or no work but giving the holder status or financial benefit.

• Autocracy- a system of government by one person with absolute power.

• Honorary- conferred as an honour, without the usual requirements or functions.

Hence from the above-given meanings, we find that the correct answer is 2 i.e. sinecure.

Q21. Answer: (d) Tution

The solution is in Hindi. Read it online.

Q22. Answer: (d) celibacy

The correct answer is option 4 i.e. celibacy

Explanation-

• Feminism- the advocacy of women's rights on the ground of the equality of the sexes.

• Polygamy- the practice or custom of having more than one wife or husband at the same time.

• Monogamy- the practice of marrying or state of being married to one person at a time.

• Celibacy-the state of abstaining from marriage and sexual relations.

Hence from the above-given meanings, we find that the correct answer is 4 i.e. celibacy

Q23. Answer: (c) to the specifications given by

The correct answer is option 3 i.e. to the specifications given by.

The word conform is followed by the preposition TO/WITH.

But the passive structure of the makes it necessary the By should be used after GIVEN.

Both of these two things are present in option 3.

So, the chosen option is correct.

Q24. Answer: (b) hope

The correct answer is 2 i.e. hope.

despair- the complete loss or absence of hope.

hope- a feeling of expectation and desire for a particular thing to happen.

The chosen option shows the opposite meaning of the given word.

Q25. Answer: (c) Food grains were being distributed among the poor.

The correct answer is option 3.

Active - Sub + were/was + v4 + object + other words.

Passive- Object + were/was + being + v3 + By + subject + other words.

This structure is being followed by option 3.

So, the chosen option is correct.

Q26. Answer: (b) Children

'Gynaecology' is the medical practice which deals with the health of the female while "Paediatrics'' is the medical practice which deals with the heath of the children.

Hence, the correct answer is children.

Q27. Answer: (b) All conclusions follow.

The correct answer is option 2 i.e. all conclusions follow.

I. Some clever are children →True (Some children are clever).

II. Some honest are children →True (All children are honest).

III. Some clever are honest →True (those clever who are children are honest).

Hence, the correct answer is all conclusions follow.

Q28. Answer: (c) 253

The pattern followed here is:

277, 239 and 233 are prime numbers.

But 253 = 11 × 23. Thus, 253 is a composite number.

Hence, 253 is the odd one among the given alternatives.

Q29. Answer: (a) NCKFCSEM

The pattern followed here is:

Similarly,

Hence, the correct answer is NCKFCSEM.

Q30. Answer: (a) 27

The triangles in ABC are 12 as there are 4 horizontal lines viz. EF, GH, YZ, BC and one vertical line i.e. AD so 3 × 4 = 12.

Similarly, in triangle FCN, there are 3 × 2 = 6 triangles and in FNM there are 3 × 3 = 9 triangles

Thus, there are in all 12 + 6 + 9 = 27 triangles.

Q31. Answer: (d) VYMV

The pattern followed here is:

Similarly,

Hence, the correct answer is VYMV.

Q32. Answer: (d) (16, 14, 40)

The pattern followed here is:

(56, 38, 96) → (14 × 4, 14 + 24, 24 × 4)

Similarly,

(16, 14, 40) → (4 × 4, 4 + 10, 10 × 4)

The correct answer is (16, 14, 40).

Q33. Answer: (c) 18 : 306

The pattern followed here is:

Given series is 25 : 600

i.e. 25 → 25^2 → 625 and 625 – 25 = 600;

Now, let's check each option:

1) 14 → 14^2 → 196 and 196 – 14 = 182 ≠ 210

2)16→ 16^2 → 256 and 256 – 16 = 240 ≠ 256

3)18→ 18^2 → 324 and 324 – 18 = 306

4) 20→ 20^2 → 400 and 400 – 20 = 380 ≠ 420

Hence, the correct answer is 18 : 306

Q34. Answer: (c) gpgpmk

Let's check each option:

1) g g k m p s k m g g k m p s k m g g k k p s m m

2) g g k m s s k m p g k m g s k m g g k k p s m m

3) g g k m / p s k m / g g k m / p s k m /g g k m / p s k m

4) g g k m p s k m g g k m s s k m g g k k p s m m

Hence, the correct answer is 'gpgpmk'.

Q35. Answer: (c) Television : Entertainment

“Telephone” is used for “communication”.

Similarly, “Television” is used for “Entertainment”.

Hence, the correct answer is Television : Entertainment.

Q36. Answer: (a) [figure]

In the given series, the outer figure along with the shaded triangle is rotating in clockwise direction. (shifting by 1 place)

The circle inside the figure alternates between two positions.

Hence, the correct answer is option 1.

Q37. Answer: (b) Mother

A is				
Symbol	•	•	×	÷
Meaning	Brother	Daughter	Husband	son
Of B				

Now draw the family tree using the above notation:

“J + R ÷ T × K – Z” means “J is brother of R”, “R is son of T”, “T is husband of K” and “K is daughter of Z”.

Thus, K is the mother of J.

Hence, the correct answer is mother.

Q38. Answer: (a) 3112957

The code for FASHION,

F = 6

A = 1

S = 19 → 1 + 9 = 10 → 1 + 0 = 1

H = 8

I = 9

O = 15 → 1 + 5 = 6

N = 14 → 1 + 4 = 5

Similarly,

The code for LASTING

L = 12 → 1 + 2 = 3

A = 1

S = 19 → 1 + 9 = 10 → 1 + 0 = 1

T = 20 → 2 + 0 = 2

I = 9

N = 14 → 1 + 4 = 5

G = 7

Hence, the correct answer is 3112957

Q39. Answer: (b) 75

The pattern followed here is:

Hence, the correct answer is 75.

Q40. Answer: (d) 50

Let the amount with C be X. Then, amount with C after taking Rs. 11 from A = X + 11

According to the given information, amount with B = X + 11.

Also, the amount with C before taking Rs. 11+ amount with B = 111.

=> X + X + 11 = 111

=> 2X = 100

=> X = 50

Hence, C has Rs 50.

Q41. Answer: (c) [figure]

The mirror image of the question figure is as follows:

Hence, the correct answer is option 3.

Q42. Answer: (b) • and –

Given series:

615 – 377 ÷ 29 × 15 + 308

After interchanging + and –:

615 + 377 ÷ 29 × 15 – 308

= 615 + 13 × 15 – 308

= 615 + 195 – 308

= 502

Hence, the correct answer is 502.

Q43. Answer: (a) 1, 3, 2, 5, 4

Steps for using a bank account:

Filling-in application form → Submitting necessary documents → Bank Account opened → Depositing and withdrawing money → Account closing

Hence, the correct answer is 1, 3, 2, 5, 4.

Q44. Answer: (d) 1

The faces with numbers 3 and 4 are adjacent to the face with number 2 in the first position.

The faces with numbers 5 and 6 are adjacent to the face with number 2 in the second position.

The only number left is 1.

Hence, the number on the face opposite to the one having 2.

Q45. Answer: (b) [figure]

The question figure is embedded in the following figure:

Hence, the correct answer is option 2.

Q46. Answer: (d) [figure]

Here, some liquids are eatable and all mangoes are eatable.

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

Q47. Answer: (b) [figure]

Hence, the correct answer is option 2.

Q48. Answer: (c) Microwave

Scanner, photocopier and printer are used for printing or scanning documents.

Microwave is used for cooking.

Hence, the correct answer is Microwave.

Q49. Answer: (a) CFJM

The pattern followed here is:

Hence, the correct answer is CFJM.

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Q50. Answer: (a) (14, 21, 77)

Given series

(16, 24, 88) = 24 – 16 = 8 and 88 ÷ 8 = 11.

Similarly,

(14, 21, 77) = 21 – 14 = 7 and 77 ÷ 7 = 11

Hence, the correct answer is (14, 21, 77)

Q51. Answer: (d) 6 cm

Calculation:

Let the length of AB = x cm

The length of BC = (2x - 2) cm, and the length of AC = (x + 10) cm

The perimeter of ΔABC = 32 cm.

=> x + 2x - 2 + x + 10 = 32

=> 4x + 8 = 32

=> 4x = 24

=> x = 6

The lengths of the sides of the triangle are:

AB = x cm = 6 cm

BC = (2x - 2) cm = 10 cm

AC = (x + 10) = 16 cm

Therefore The length of the smallest side of the triangle is 6 cm.

Q52. Answer: (d) 36

Given:

BP = 5 cm, CQ = 7 cm and AR = 6cm

Calculation:

The lengths of tangents from a point on a circle are equal.

Thus, AP = AR = 6 cm

BQ = BP = 5 cm

CR = CQ = 7 cm

Now, AB = AP + PB = 6 + 5 = 11 cm

BC = BQ + QC = 5 + 7 = 12 cm

AC = AR + CR = 6 + 7 = 13 cm

The perimeter of ΔABC = AB + BC + AC

Therefore The perimeter of ΔABC = 11 + 12 + 13 = 36 cm

Q53. Answer: (d) 15%

Calculation:

The total cost price of both the articles = 2 × 4158 = Rs. 8316

The selling price of the article sold at 15% loss = 4158 × [(100 - 15)/100] = Rs. 3534.3

For no profit/loss, the other article must be sold for = 8316 - 3534.3 = Rs. 4781.7

Hence, the profit on the other article = 4781.7 - 4158 = Rs. 623.7

Therefore Profit percent on the other article = 623.7/4158 × 100 = 15%

Q54. Answer: (a) 15

Calculation:

For a number to be divisible be 88, it should be divisible by 11 and 8.

For a number to be divisible by 8, the last three digits of the number should be divisible by 8.

Putting y = 3, the last 3 digits become 832, which is divisible by 8.

For a number to be divisible by 11, the difference of the sum of the alternate numbers should be zero or multiple of 11.

=> The difference of (7 + 2 + x + 5 + 3) and (2 + 0 + 5 + 8 + 2) should be zero or multiple of 11.

=> 17 + x - 17 = 0

=> x = 0

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Therefore (5x + 5y) = 5(0) + 5(3) = 0 + 15 = 15

Q55. Answer: (c) 60/19

Given:

A can do the work = 4 days

B can do the work = 20 days

C can do the work = 60 days

Calculation:

One-day work of A = 1/4 days ----(1)

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

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

Adding equations (1), (2), and (3), we get

One-day work of (A + B + C) = {(1/4) + (1/20) + (1/60)}

=> (A + B + C) = {(15 + 3 + 1)/60}

=> (A + B + C) = 19/60

One-day work of (A + B + C) = (9/72) = 19/60 days

Therefore The total work will be completed in 60/19 days.

Q56. Answer: (a) 2

Given:

$6(\sec^2 59° - \cot^2 31°) + 2/3\sin 90° - 3\tan^2 56° \text{ ytan}^2 34° = y/3$,

Formula: $1 + \tan^2\theta = \sec^2\theta$, $\tan\theta = 1/\cot\theta$

Calculation:

$\Rightarrow 6(\sec^2 59° - \tan^2 59) + 2/3\sin 90° - 3\tan^2 56° \text{ ycot}^2 56° = y/3$

$\Rightarrow 6(\sec^2 59° - \cot^2(90° - 59°)) + 2/3\sin 90° - 3\tan^2 56° \text{ ytan}^2(90° - 56°) = y/3$

$\Rightarrow 6(1) + 2/3(1) - 3y(1) = y/3$

$\Rightarrow 6 + 2/3 = y/3 + 3y$

$\Rightarrow 20/3 = 10y/3$

$\Rightarrow y = 2$

Q57. Answer: (c) 50

Calculation:

Let the two numbers be 7x and 5x.

According to the question:

$(7x - 40)/(5x - 40) = 27/17$

$\Rightarrow 119x - 680 = 135x - 1080$

$\Rightarrow 16x = 400$

$\Rightarrow x = 25$

Therefore The difference between numbers = $7x - 5x = 2x = 2 \times 25 = 50$

Q58. Answer: (a) 1/2

We have, $\sec^2\theta - \tan^2\theta = 1$

$\Rightarrow (4x)^2 - (4/x)^2 = 1$

$\Rightarrow 16x^2 - 16/x^2 = 1$

$\Rightarrow 16(x^2 - 1/x^2) = 1$

$\Rightarrow 8(x^2 - 1/x^2) = 1/2$

Q59. Answer: (c) 16

As $\pi < x < 3\pi/2$, x lies in third quadrant.

$\cos x = -1/2$

$\Rightarrow x = 240°$

$4\tan^2 x + 3\text{cosec}^2 x$

$\Rightarrow 4\tan^2(240°) + 3\text{cosec}^2(240°)$

$\Rightarrow 4\tan^2(180° + 60°) + 3\text{cosec}^2(180° + 60°)$

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=> $4\tan^2 60° + 3(-\text{cosec } 60°)^2$

=> $4 \times (\sqrt{3})^2 + 3 \times (-2/\sqrt{3})^2$

=> $4 \times 3 + 3 \times 4/3$

=> 16

Q60. Answer: (d) 9 : 25

Calculation:

Let the height and base of ΔABC be H and B respectively, and the height and base of ΔPQR be h and b respectively.

Area of ΔABC / Area of ΔPQR = (B × H) / (b × h)

=> 3 / 5 = 5B / 3b

=> B / b = 9 / 25

Therefore The ratio of the bases of triangle ABC to that of triangle PQR is 9 : 25.

Q61. Answer: (d) 2014 - 2015

Calculation:

Total export and import in the year 2013 - 2014 = 638 + 824 = 1462

Total export and imports in the year 2014 - 2015 = 1256 + 1014 = 2270

=> Percentage increase in 2014 - 2015 as compared to previous year = (2270 - 1462)/1462 × 100 = 55.26%

Total export and imports in the year 2015 - 2016 = 1661 + 1137 = 2798

=> Percentage increase in 2015 - 2016 as compared to the previous year = (2798 - 2270)/2270 × 100 = 23.25%

Total export and imports in the year 2016 - 2017 = 1538 + 1513 = 3051

=> Percentage increase in 2016 - 2017 as compared to the previous year = (3051 - 2798)/2798 × 100 = 9.04%

Total export and imports in the year 2017 - 2018 = 1305 + 1658 = 2963

=> In the year 2017 - 2018, there is a decrease in the total export and import as compared to the previous year.

Therefore In the year 2014 - 2015, the percentage increase in the total of exports and imports is the highest in comparison to the previous financial year

Q62. Answer: (b) 148°

Calculation:

We have, angle BOC = 90° + ½ angle A

=> angle BOC = 90° + ½ (116°)

=> angle BOC = 90° + 58

Therefore angle BOC = 148°

Q63. Answer: (c) 8

Calculation:

By hit and trial, putting x = 8

5^cbrt^x + 12^cbrt^x = 13^cbrt^x

=> 5^cbrt^8 + 12^cbrt^8 = 13^cbrt^8

=> $5^2 + 12^2 = 13^2$

=> 25 + 144 = 169

=> 169 = 169

=> L.H.S = R.H.S

Therefore The value of x = 8.

Q64. Answer: (d) 1

Calculation:

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

(h, k) will satisfy the equation x2 + y2 = a^2.

=> $h^2 + k^2 = a^2$

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

$hx + ky = b^2$

Perpendicular distance of this tangent from the centre of the circle x2 + y2 = c2 will be equal to the radius of the circle.

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

=> |(-b²)/a| = c
=> b² = ac
Comparing it with b^m = aⁿc^p
=> m = 2, n = p = 1
Therefore m + n + p - 3 = 2 + 1 + 1 - 3 = 1
Shortcut Trick
Here According to the question, the biggest circle is x2 + y2 = a2.
and second biggest circle is x2 + y2 = b2.
and the smaller circle is x2 + y2 = c2.
Now, according to the figure
we can write OA = a, OB = b, OC = c
=> AC = a - c
Here, we can see that angle ABO = 90° and also angle ACB = angle BCO = 90°
Now, In ΔOBC
BC² = b² - c² ----(1)
In ΔABC
AB² = BC² + AC²
=> AB2 = b2 - c2 + (a - c)² ----(2)
Now, In ΔABO
AB2 = OA² - OB²
=> AB2 = a² - b² ----(3)
From (2) and (3),
b2 - c2 + (a - c)2 = a2 - b2
=> b2 - c2 + a2 + c2 - 2ac = a2 - b2
=> 2b² = 2ac
=> b2 = ac
Comparing it with bm = ancp
=> m = 2, n = p = 1
Therefore m + n + p - 3 = 2 + 1 + 1 - 3 = 1

Q65. Answer: (c) 140

Calculation:
Let the speed of the first train be 5x and the speed of the second train be 7x.
Speed of the first train = Distance / Time = 300/3 = 100 km/hr
According to the question:
5x = 100
=> x = 20
Therefore The speed of the second train = 7x = 7 × 20 = 140 km/hr.

Q66. Answer: (a) 13/64

Calculation:
((31/5 - 3/5) ÷ 8/5)/(11/(7) ÷ {6/(7) - (1/7 ÷ 1/5)})
=> ((16/5 - 3/5) × 5/8)/(8/7 ÷ {6/7 - (1/7 × 5/1)})
=> ((13/5) × 5/8)/(8/7 ÷ {6/7 - (5/7)})
=> ((13/8))/(8/7 ÷ 1/7)
=> ((13/8))/(8/7 × 7/1)
=> ((13/8))/8
Therefore 13/64

Q67. Answer: (d) 10.50%

The formula used:
Profit = Selling Price - Cost Price
Calculation:

Profit = 652920 - 590828 = Rs. 62092

=> Profit percentage = 62092/590828 × 100

= 10.50%

Q68. Answer: (d) 40

Given:

The average age of four brothers = 15 years

Calculation:

The total age of four brothers = 15 × 4 = 60 years

If their father's age is included, the average age is increased by 5 years.

New average = 15 + 5 = 20 years

=> The total age of four brothers and their father = 20 × 5 = 100 years

Therefore The age of father = 100 - 60 = 40 years.

Q69. Answer: (c) 2516.4

Calculation:

The total import and export during the five financial years = 638 + 824 + 1255 + 1011 + 1661 + 1137 + 1548 + 1545 + 1305 + 1658 = 12582

Therefore The average of total imports and export during the five financial years = 12582/5 = 2516.4

Q70. Answer: (d) 36% decrease

Calculation:

Let the number be 100x.

When the number is increased by 30%, then decreased by 30%, then further decreased by 30%, it becomes:

100x × [(100 + 30)/100] × [(100 - 30)/100] × [(100 - 30)/100]

=> 100 × (130/100) × (70/100) × (70/100)

=> 63.7x

Decrease in Number = 100x - 63.7x = 36.3x

Therefore Percentage decrease in number = 100 × (36.3x/100x) = 36.3% ≈ 36%

Q71. Answer: (a) 3619 : 3604

Calculation:

The total imports during 2013 - 2014, 2015 - 2016, and 2017 - 2018

= 824 + 1137 + 1658 = 3619

The total exports during 2013 - 2014, 2015 - 2016, and 2017 - 2018

= 638 + 1661 + 1305 = 3604

So, the ratio of total imports to total exports during years 2013 to 2014, 2015 to 2016, and 2017 to 2018 = 3619: 3604

Q72. Answer: (c) 600

Calculation:

Let the price tag on the shirt be 100x.

According to the question:

100x × (100 - 25)/100 × (100 - 20)/100 × (100 - 10)/100 = 324

=> 100x × 75/100 × 80/100 × 90/100 = 324

=> 100x = 324 × 100/75 × 100/80 × 100/90

=> 100x = 600

Therefore The price tag on the shirt was Rs. 600

Q73. Answer: (d) -22√2

Given:

x = √3 - √2

Calculation:

=> 1/x = 1/(√3 - √2)

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

=> 1/x = √3 + √2

=> x - 1/x = √3 - √2 - (√3 + √2)

=> x - 1/x = √3 - √2 - √3 - √2

=> x - 1/x = - 2√2

=> $(x - 1/x)^3 = (- 2√2)^3$

=> $x^3 - 1/x^3 - 3(x)(1/x)(x - 1/x) = - 16√2$

=> $x^3 - 1/x^3 - 3(- 2√2) = - 16√2$

=> $x^3 - 1/x^3 = - 16√2 - 6√2$

=> $x^3 - 1/x^3 = - 22√2$

=> $x^3 - x^{(- 3)} = - 22√2$

Q74. Answer: (a) 2013 - 2014

Calculation:

The total of exports and imports in 2013 - 2014 = 638 + 824 = 1462 tonnes

The total of exports and imports in 2014 - 2015 = 1256 + 1014 = 2270 tonnes

The total of exports and imports in 2015 - 2016 = 1661 + 1137 = 2798 tonnes

The total of exports and imports in 2016 - 2017 = 1538 + 1513 = 3051 tonnes

The total of exports and imports in 2017 - 2018 = 1305 + 1658 = 2963 tonnes

Therefore In the year 2013 - 2014, the total of exports and imports is lower.

Q75. Answer: (d) -3

Formula used:

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

Calculation:

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

=> 6x + 18 = 0

=> 6x = - 18

=> x = - 3

Q76. Answer: (b) India

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

• India has won 8 gold medals in hockey in the history of Olympics that is the maximum.

• The Indian men's hockey team won its first-ever gold at the London Olympics as an independent nation by beating Great Britain in 1948.

• The gold was also independent of India's first in any Olympics event. Overall India has won 28 medals.

• India has been taking part in the Olympics from 1900 till date.

Q77. Answer: (d) 28th February

The correct answer is option 4, i.e. 28th February.

• National Science Day is celebrated on February 28 every year to remember Nobel laureate Sir C V Raman's contribution to the field of science.

• The objective of observing National Science Day is to spread the message of the importance of science and its applications among the people.

• The theme for 2019 Science Day is 'Science for the People and the People for Science'.

• For his discovery, Sir C.V. Raman was awarded the Nobel Prize in Physics in 1930.

Q78. Answer: (a) The Central Statistics Office (CSO)

The correct answer is option 1, i.e. The Central Statistics Office (CSO).

Institution Name	Establishment year	Headed by
The Central Statistics Office (CSO)	1951	Minister of Statistics
The Indian Statistical Institute (ISI)	1931	Director of ISI
The Reserve Bank of India (RBI)	1935	RBI Governor

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Q79. Answer: (b) Jharia

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

• Jharia is famous for its rich coal resources, used to make coke.

• This coalfield plays a very important role in the economy and development of Dhanbad City and can be considered as a part of Dhanbad City.

• This city in the state of Jharkhand state.

Q80. Answer: (c) Forrest Gander

The correct answer is option 3, i.e. Forrest Gander

• The Pulitzer Prize is an award for achievements in newspaper, magazine and online journalism, literature and musical competition in the USA.

• It was established in 1917.

• The Pulitzer Prize 2019 for different categories of Letters, Drama and Music as follows:

Categories	Winners
Fiction	The Overstory, by Richard Powers (W.W. Norton)
Drama	Fairview, by Jackie Sibblies Drury
History	Frederick Douglass: Prophet of Freedom, by David W. Blight (Simon & Schuster)
Biography	The New Negro: The Life of Alain Locke, by Jeffrey C. Stewart (Oxford University Press)
Poetry	Be With, by Forrest Gander (New Directions) by Ellen Reid

Q81. Answer: (d) Roger Federer

The correct answer is option 4, i.e. Roger Federer.

• Roger Federer was born August 8, 1981, Basel, Switzerland.

• This Swiss tennis player, who dominated the sport in the early 21st century with his exceptional all-around game.

• He won a total of 20 men's singles Grand Slam championships and this is the most in tennis history.

• He started playing tennis at age eight, became Switzerland's junior champion when he was 14.

• In 1998 he captured the Wimbledon junior singles championship and secured the Orange Bowl junior tournament crown in Miami.

• The following year Federer made his debut on the Swiss Davis Cup team and became the youngest tennis player (at 18 years 4 months) to end the year among the world's top 100, finishing that season at number 64.

Q82. Answer: (d) Article 352

The correct answer is option 4,i.e. Article 352.

Articles	Details
Article 352	Deals with emergency due to war, external aggression or armed rebellion
Article 269	Taxes Levied and Collected by the Centre but Assigned to the States.
Article 350	The language used in complaints in Union and States of India.

Q83. Answer: (d) Rajiv Gandhi Hyderabad International Airport - 66th

The correct answer is option 4, i.e. Rajiv Gandhi Hyderabad International Airport - 66th.

• Hyderabad International Airport is also known as Rajiv Gandhi International Airport.

• It is 'World Airport Survey' which ranked the world's Top 100 Airports for 2019.

• It is ranked 66th position in this report.

Airports	City/State/UTs
Chhatrapati Shivaji Maharaj International Airport(Ranked 64)	Mumbai, Maharashtra
Rajiv Gandhi Hyderabad International Airport(Ranked 66)	Hyderabad, Telangana

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Indira Gandhi International Airport(Ranked 59)	New Delhi, Delhi
Kempegowda International Airport(Ranked 69)	Bengaluru, Karnataka

Q84. Answer: (a) Alam Ara

The correct answer is option 1, i.e. Alam Ara.

• Released on 14 March 1931, Alam Ara was the first Indian sound/talkie film. The film was directed by Ardeshir Irani.

• A "talkie" film is a film in which the sound and music are in sync with the scene and picture.

• The film is based on a Parsi play written by Joseph David Penkar. The film is a love story between a gipsy girl and a prince.

• The first full-length Indian feature film was Raja Harishchandra which was a silent film and was released in 1913.

Q85. Answer: (a) 28th May

The correct answer is option 1, i.e. 28th May.

• Menstrual hygiene day is an annual awareness day observed on 28 May.

• It aims to break taboos surrounding menstruation, raise awareness of the importance of good menstrual hygiene management worldwide.

• The theme of this year is “Its time for Action.”

• Ambubachi festival celebrated in Kamakya temple(Assam) brings a different perspective to Menstruation.

Q86. Answer: (b) Justice A K Sikri

The correct answer is option 2, i.e. Justice A K Sikri.

• Justice AK Sikri was recently appointed as the chairperson of the news broadcasting standards authority(NBSA) by the news broadcasters Association(NBA).

• He served as Chief Justice of the Punjab and Haryana high court and acting chief justice of Delhi high court.

• He was also appointed as an International judge of the Singapore international commercial court.

Q87. Answer: (c) Mission Shakti

The correct answer is option 3, i.e. Mission Shakti.

• Mission Shakti is an Anti-Satellite weapon. It is called the ASAT mission.

• It was successful in targeting a live satellite in the lower earth orbit and destroying it.

• India became 4th country to achieve this feat after USA, Russia and China.

Q88. Answer: (d) Naomi Osaka

The correct answer is option 4, i.e. Naomi Osaka.

Player name	Nationality
Angelique Kerber	Germany
Elina Svitolina	Ukraine
Caroline Wozniacki	Denmark
Naomi Osaka	Japan

Q89. Answer: (d) Tata Steel

The correct answer is option 4,i.e.Tata Steel.

• Private steel major Tata Steel has been recognised as one of the World's Most Ethical Companies by the Ethisphere Institute for 2019.

• Ethisphere Institute is a global leader in defining and advancing the standards of ethical business practices.

• With this, Tata Steel has got the recognition eight times in the 'Metals, Minerals and Mining' category.

Q90. Answer: (a) Consumer Price Indices (CPI)

The correct answer is option 1, i.e. Consumer Price Indices (CPI).

• Consumer Price Indices (CPI), is used for indexing dearness allowance to government employees for increase in prices in India.

• There are two sets of inflation indices for measuring price level changes in India - the Wholesale Price Index (WPI) and the Consumer Price Index (CPI).

• The WPI, where prices are quoted from wholesalers, is constructed by Office of Economic Affairs, Ministry of Commerce and

Industries.

• The index used by the Reserve Bank of India till 2014 to make its monetary policy was WPI.

• Presently RBI uses CPI to measure Inflation.

Q91. Answer: (a) Maldives

The correct answer is the Maldives.

• The smallest neighbouring country of India in terms of population is "Maldives".

• The Maldives became independent on 26th July 1965.

• Colonial powers dominated the islands since the mid-sixteenth century.

• It gained independence from the United Kingdom in 1965, becoming a republic in 1968.

• Mohamed Amin Didi served as the first president of the Maldives with Ibrahim Mohamed Didi served as the first Vice President.

Q92. Answer: (d) Majuli Island

The correct answer is option 4, i.e. Majuli Island.

• Majuli is a large river island in the Brahmaputra River, in Assam.

• Majuli is the largest river island in India.

• Majuli had a total area of 1,250 square kilometres, but due to erosion now it had an area of only 421.65 square kilometres in 2001.

Q93. Answer: (b) Red Sea

The correct answer is option 2, i.e. Red Sea.

Key Points

• The Red Sea is situated between Africa and Asia.

• Strait of Gibraltar connects the Mediterranean Sea with the Atlantic ocean.

• The Black Sea is a large inland sea situated at the southeastern extremity of Europe. It is bordered by Ukraine to the north, Russia to the northeast, Georgia to the east, Turkey to the south, and Bulgaria and Romania to the west.

• The Caspian Sea is the world’s largest inland body of water. The sea is bordered on the northeast by Kazakhstan, in the southeast by Turkmenistan, in the south by Iran, in the southwest by Azerbaijan, and in the northwest by Russia.

Q94. Answer: (d) Haemophilia A

The correct answer is option 4, i.e. Haemophilia A.

• Haemophilia A is a frequently inherited genetic disorder that impairs the body's ability to form blood clots, a process required to stop bleeding.

• This results in people bleeding longer after an injury, easy bruising, and an increased risk of bleeding inside joints or the brain.

• Those with a mild case of the disease may have symptoms only after an accident or during surgery.

• Bleeding into a joint can result in permanent damage while bleeding in the brain can result in long term headaches, seizures or a decreased level of consciousness.

Q95. Answer: (a) Intel

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

• Intel is an American company which specializes in the manufacturing of Processor chips(Integrated Circuits).

• It is headquartered in California. The company’s name comes from “integrated electronics.”

• Windows, Linux and Unix are the operating systems.

Q96. Answer: (a) Mahatma Gandhi

The correct answer is option 1, i.e. Mahatma Gandhi.

• Mahatma Gandhi was awarded the Kaisar-e-Hind in 1915 by Lord Hardinge of Penshurst.

• He got it for his contribution to ambulance services in South Africa.

• Gandhi returned the medal in 1920 as part of the national campaign protesting the Jallianwala Bagh massacre.

• The Kaisar-e-Hind Medal for Public Service in India was a medal awarded by the British monarch to civilians of any nationality who rendered distinguished service in the advancement of the interests of the British Raj.

Q97. Answer: (b) Pulakeshin II

The correct answer is option 2, i.e. Pulakeshin II.

• Pulakeshin II defeated Harshvardhana in 618 CE.

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• He was the most famous ruler of the Chalukya dynasty.
• During his reign, the Chalukyas of Badami saw their kingdom extend over most of the Deccan region.

Q98. Answer: (b) Kalidasa

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

Writer Name	Books
Bhasa	Swapna vasavadatta
Kalidasa	Meghdoot
Sudraka	Mrchchhakatika
Vatsyayana	Kama Sutra

Q99. Answer: (b) Extranet

The correct answer is option 2, i.e. Extranet.
• Extranet refers to a network within an organization, using the internet to connect to the outsiders in a controlled manner.
• It helps to connect businesses with their customers and suppliers and therefore allows working in a collaborative manner.
• It is implemented as a Virtual Private Networks (VPN) because it uses the internet to connect to corporate organization and there is always a threat to information security.
• VPN offers a secure network in public infrastructure.

Q100. Answer: (d) Meira Kumar

The correct answer is option 4, i.e. Meira Kumar.
• Meira Kumar was the speaker of the 15th Lok Sabha.
• She was the first woman to become the speaker of Lok Sabha.
• The book “Indian Parliamentary Diplomacy- Speaker’s Perspective” is written by Meira Kumar.
• Sumitra Mahajan was the second woman after Meira Kumar and she headed the 16th Lok Sabha.
• The current speaker is Om Birla of the Bharatiya Janata Party, who is presiding over the 17th Lok Sabha.

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