SSC CHSL Previous Paper 6 (Held On: 3 July 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. In the sentence identify the segment which contains the grammatical error.

Many of China's exports has been redirected to the domestic market in view of the more consumption-driven economy.

(a) has been redirected
(b) Many of China's exports
(c) in view of the more consumption-driven economy
(d) to the domestic market

Q2. Directions: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

Two senior officers have been entrusted with the responsibility by organize the reception of the guest.

(a) No improvement
(b) for organize
(c) of organizing
(d) to organizing

Q3. Select the most appropriate synonym of the given word.

ERODE

(a) Fix
(b) Disintegrate
(c) Preserve
(d) Build

Q4. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

He has been solving this sum for a couple of hours but he did not solve it yet.

(a) No improvement
(b) has not solved it
(c) has not solve it
(d) had not solved it

Q5. Select the wrongly spelt word.

(a) glory
(b) goggles
(c) gobbel
(d) global

Q6. Select the word which means the same as the group of words given.

Rapid increase in the number or amount of something

(a) proliferation
(b) promotion
(c) propensity
(d) paucity

Q7. Select the word which means the same as the group of words given:

Existing or occurring in the air.

(a) heavenly
(b) feathery
(c) aerial
(d) visual

Q8. Select the most appropriate word to fill in the blank.

He once had a very frightening _____ with a wild bull.

(a) appointment
(b) encounter
(c) enterprise
(d) commitment

Q9. Select the wrongly spelt word.

(a) aggrassive
(b) agriculture
(c) agitation
(d) agreement

Q10. Select the most appropriate meaning of the given idiom.

Hanging by a thread

(a) in a sorry or humble state
(b) be extremely weak
(c) unable to act as desired
(d) be in a dangerous situation

Q11. Select the most appropriate word to fill in the blank.

During the elections political parties try to _____ their rivals in order to gain advantage.

(a) laud
(b) covet
(c) commend
(d) vilify

Q12. Select the correct passive form of the given sentence.

The merchant brought many gifts for his family from India.

(a) Many gifts were brought by the merchant for his family from India.
(b) His family were brought by the merchant for many gifts from India.
(c) Many gifts brought by the merchant for his family from India.
(d) Many gifts are brought by the merchant for his family from India.

Q13. Select the most appropriate antonym of the given word.

DENSE

(a) sparse
(b) jammed
(c) crammed
(d) piled

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Q14. Select the most appropriate meaning of the given idiom.

To shake off

(a) to denounce
(b) to get rid of
(c) to recollect
(d) to pass off

Q15. Select the correct indirect form of the given sentence.

Bhola said to his friend, "How can I make this charcoal white?"

(a) Bhola asked his friend how he could make that charcoal white.
(b) Bhola told his friend how he could make that charcoal white.
(c) Bhola asked his friend how can I make this charcoal white.
(d) Bhola asked his friend how could he make that charcoal white.

Q16. In the sentence identify the segment which contains the grammatical error.

India's largest car-maker is evaluating the launch to a small electric car next year.

(a) next year
(b) is evaluating the launch
(c) India's largest car maker
(d) to a small electric car

Q17. Select the most appropriate antonym of the given word.

EXAGGERATE

(a) Heighten
(b) Amplify
(c) Compress
(d) Overdo

Q18. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. But once when Mark disturbed the whole class with his pranks I had to reprimand him.

B. He was in third grade when I taught at Saint Mary's School.

C. All 34 students were dear to me, but Mark Eklund, was one in a million.

D. He had a happy-to-be-alive attitude that made even his occasional mischievousness delightful.

(a) CBDA
(b) BADC
(c) ADBC
(d) CADB

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

ENTANGLE

(a) exclude
(b) clarify
(c) implicate
(d) release

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.

People make plastic products by mixing the plastic with additives. The additives (1) ____ it difficult to recycle the plastic. To recycle plastic things, (2) __ grind them up first, but this new (3) __ is not easy to use again. A laboratory in California made a new type (4) __ plastic to deal with this problem. (5) ____ scientists put the new plastic in a high-acid solution, the plastic and the additives break apart. People can then easily reuse the plastic.

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Q20. Select the most appropriate option for blank No. 1.

(a) make
(b) makes
(c) is making
(d) was making

Q21. Select the most appropriate option for blank No. 2.

(a) persons
(b) personnel
(c) human beings
(d) people

Q22. Select the most appropriate option for blank No. 3.

(a) component
(b) material
(c) thing
(d) object

Q23. Select the most appropriate option for blank No. 4.

(a) to
(b) with
(c) in
(d) of

Q24. Select the most appropriate option for blank No. 5.

(a) But
(b) Until
(c) When
(d) Then

Q25. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Once Oliver made a big snowman.
B. The fat snowman wore an old top hat and a muffler.
C. Now, it looked very grand indeed and Oliver's friends loved it.
D. It was as big as him but much fatter.

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

GENERAL INTELLIGENCE

Q26. In the month of June, the number of girls in a class was half of the number of boys. In July, five more girls took admission, whereas five boys left the school. Now, the number of boys and girls is equal in the class. How many students in total were there in the class in June?

(a) 30
(b) 25
(c) 35
(d) 20

Q27. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

_ _ Q D P C _ _ Q C Q _ _ C P D Q C _ D P _ P D

(a) QCPCPPQC

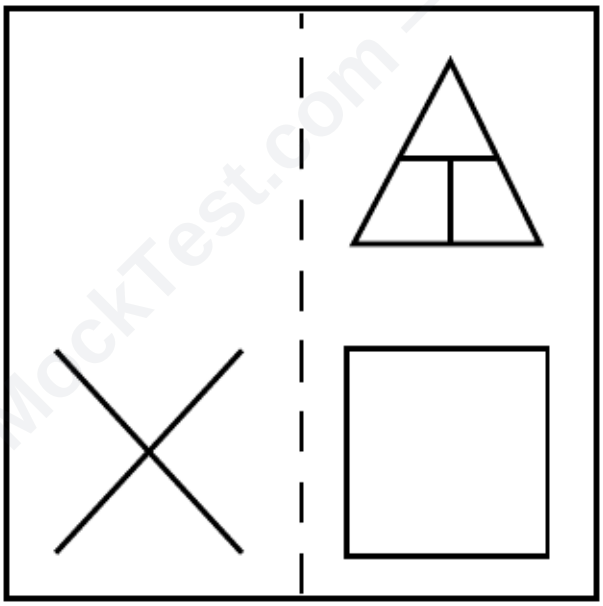
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(b) PCPDDPDC
(c) QCDDDPQD
(d) QCPDDPQC

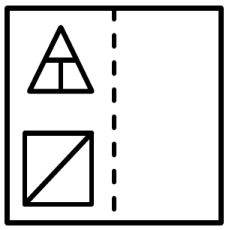
Q28. Mayank is the son of Chhaya. Chhaya and Deepa are sisters. Gayatri is the mother of Deepa. If Naman is the son of Gayatri, how is Mayank related to Naman?

(a) Nephew
(b) Brother
(c) Father
(d) Son

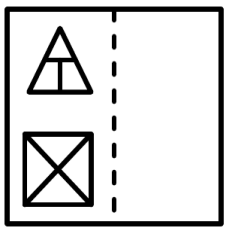
Q29. Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line.



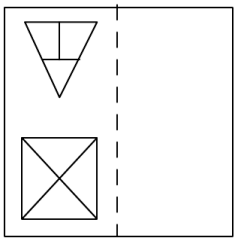
(a)



(b)

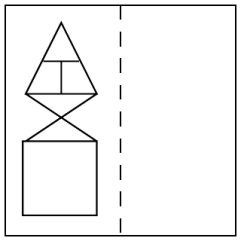


(c)



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(d)



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

442 : 21

(a) 257 : 16
(b) 323 : 19
(c) 223 : 13
(d) 238 : 14

Q31. 'A + B' means 'A is the mother of B'.

'A - B' means 'A is the wife of B'.

'A × B' means 'A is the brother of B'.

'A ÷ B' means 'A is the husband of B'.

If T ÷ V + Q – J × M + U, then how is T related to J?

(a) Father-in-law
(b) Son-in-law
(c) Brother
(d) Father

Q32. Select the term that will come next in the following series.

6, 24, 60, 120, ?

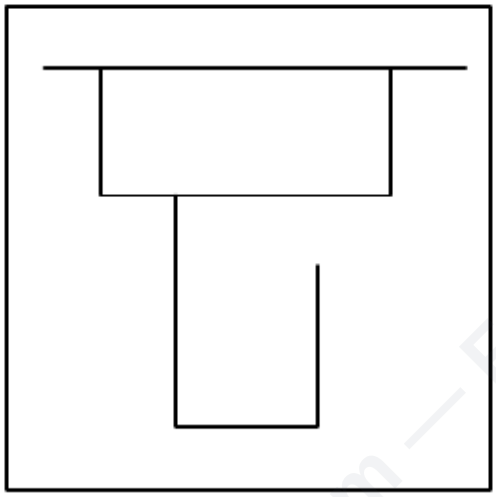
(a) 216
(b) 240
(c) 210
(d) 186

Q33. 'Chassis' is related to 'Car' in the same way as 'Skeleton' is related to '_____'.

(a) Spinal cord
(b) Organs
(c) Bones
(d) Body

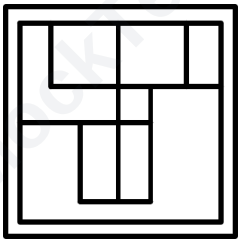
Q34. Select the option in which the given figure (X) is embedded (rotation not allowed.)

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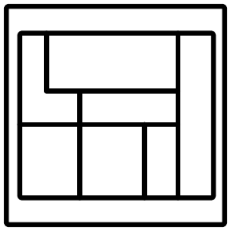


(X)

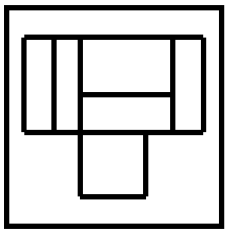
(a)



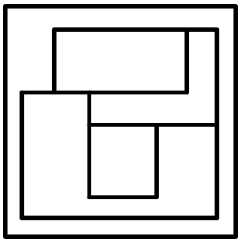
(b)



(c)



(d)



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Q35. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(84, 60, 51)

(a) (64, 80, 72)
(b) (80, 98, 69)
(c) (72, 56, 62)
(d) (52, 64, 47)

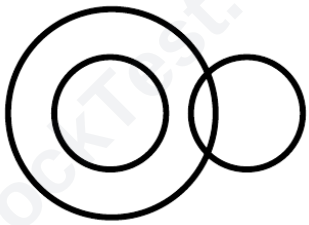
Q36. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

(a) Cells
(b) Atoms
(c) Tissues
(d) Organs

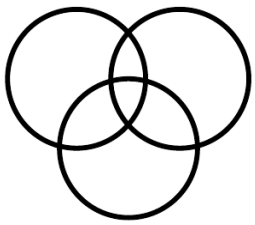
Q37. Select the Venn diagram that best illustrates the relationship between the following classes.

Men, Players, Fathers.

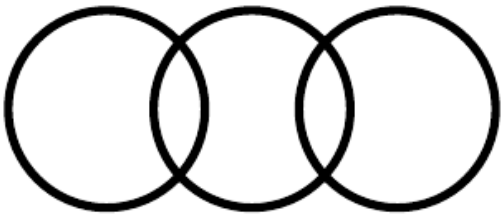
(a)



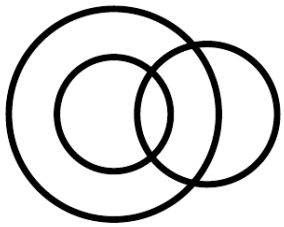
(b)



(c)

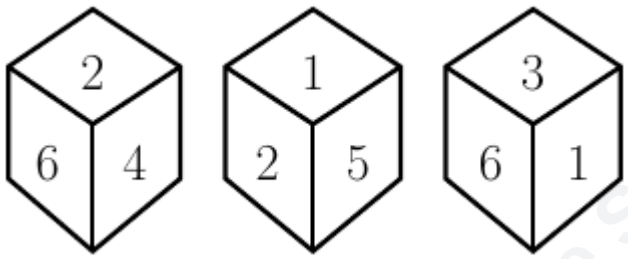


(d)



Q38. Three different positions of the same dice are shown. Find the number on the face opposite the face showing ‘3’?

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(a) 6
(b) 5
(c) 4
(d) 2

Q39. 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) follow the statements.

Statements:

All parks are schools.

No school is a college.

Conclusions:

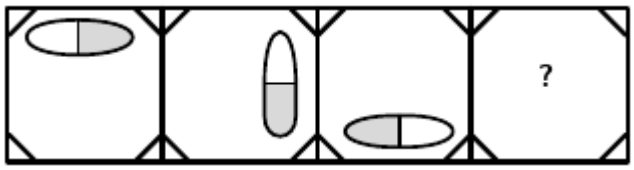
I. No college is a school.

II. Some schools are parks.

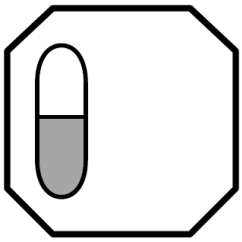
III. No park is a college.

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

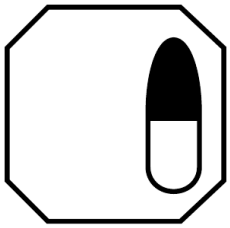
Q40. Select the figure that will come next in the following figure series.



(a)

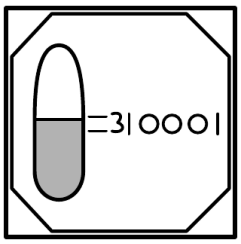


(b)



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(c)



(d)



Q41. In a code language, CONVEYER is written as FLQYBBBU. How will PERSONAL be written as in that language?

(a) SBUVLQXO
(b) SBOULQXO
(c) SBUVLQDO
(d) RAUVMQYO

Q42. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(4, 6, 52)

(a) (3, 5, 34)
(b) (5, 7, 72)
(c) (6, 7, 95)
(d) (7, 9, 120)

Q43. Which two signs should be interchanged in the following equation to make it correct?

868 + 14 × 55 – 1064 ÷ 56 = 117

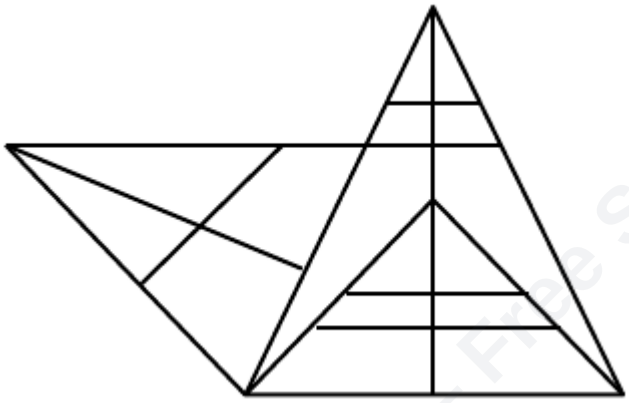
(a) • and ÷
(b) × and -
(c) • and -
(d) ÷ and ×

Q44. If W = 46 and CAT = 48, then how will you code SALE?

(a) 54
(b) 74
(c) 110
(d) 17

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

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

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

R G Y b s Q 7 9 1

(a)

1p7QedYDA

(b)

∀ 6 ʎ 6 ə ꓷ ∠ d ⇂

(c)

(d)

ꓶ ə ƨ O ƨ b Y Ↄ Я

Q47. 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.

QDUJ : VIZO ? LPAR : ?

(a) QUEX
(b) RUFW
(c) PUFY
(d) QUFW

Q48. Which number will replace the question mark(?) in the following series?

16, 30, 62, 122, 246, ?

(a) 490
(b) 488
(c) 492
(d) 494

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Q49. Select the term that will come next in the following series.

JVD, MTF, PRH, ?, VNL

(a) RPJ
(b) SPJ
(c) SQJ
(d) RQI

Q50. 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.

Nephrology : Kidney

(a) Cardiology : Liver
(b) Opthalmology : Eyes
(c) Pathology : Tissues
(d) Zoology : Plants

QUANTITATIVE APTITUDE

Q51. The ratio of speeds of A and B is 3 : 5. If A takes 24 minutes more than B to cover a certain distance, then how much time (in minutes) will B take to cover the same distance?

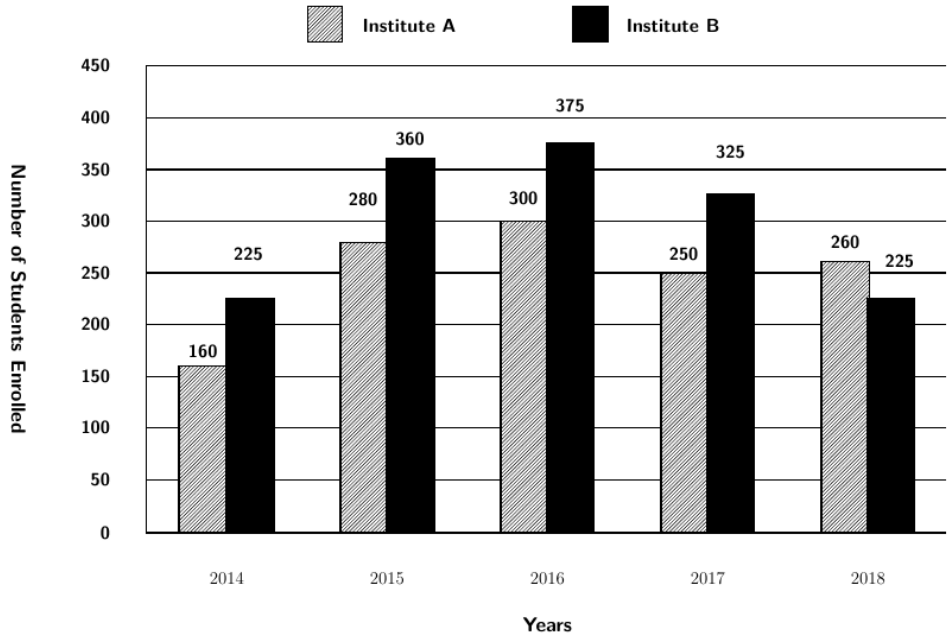
(a) 40
(b) 36
(c) 20
(d) 18

Q52. In ΔABC, AD, the bisector of angle A, meets BC at D. If BC = a, AC = b and AB = c, then BD – DC =

(a) a(c - b)/(c + b)
(b) ab/(b + c)
(c) ac/(b + c)
(d) a(c + b)/(c - b)

Directions

Directions: The given bar graph presents the number of students enrolled for a vocational course in institutes A and B during a period of five years.



Q53. The average number of students (per year), enrolled in B during 2015, 2016 and 2018 is more by what percentage than the number of students enrolled in A during 2017?

(a) 28
(b) 25
(c) 30
(d) 22

Q54. The total number of students enrolled in A during 2014, 2016 and 2018 is what percentage (correct to one decimal place) of the total number of students enrolled in B during the period of five years?

(a) 43.4
(b) 47.7
(c) 44.6
(d) 46.8

Q55. What is the ratio of the total number of students enrolled in A during 2015 and 2018 to the total number of students enrolled in B during 2014 and 2016?

(a) 9 : 10
(b) 16 : 15
(c) 27 : 25
(d) 11 : 12

Q56. In which year the number of students enrolled in B is x% more, where $25 < x < 30$, than the number of students enrolled in A in the same year?

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

Q57. If $x + 1/x = 7$, then $x^3 + 1/x^3$ is equal to:

(a) 300
(b) 322
(c) 364
(d) 343

Q58. If $250\sqrt{2}\, x^3 - 5\sqrt{5}\, y^3 = (5\sqrt{2}\, x - \sqrt{5}\, y) \times (Ax^2 + Bxy + Cy^2)$, then the value of $A + C - \sqrt{10}\, B$ is:

(a) 10
(b) 5
(c) $5\sqrt{2}$
(d) $2\sqrt{5}$

Q59. Two numbers A and B are in the ratio 5 : 2, If 4 is added to each number then this ratio becomes 9 : 4. If 5 is subtracted from each of the original number, then the ratio of A and B will be:

(a) 3 : 1
(b) 8 : 3
(c) 7 : 2
(d) 4 : 1

Q60. A certain sum amounts to Rs. 29282 in 4 years at 10% per annum, when the interest is compounded annually. What is the simple interest on the same sum for same time at the same rate?

(a) Rs. 8,500
(b) Rs. 8,000
(c) Rs. 7,600
(d) Rs. 8,400

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Q61. A rectangle ABCD is inscribed in a circle with centre O. Its diagonal CA is produced to a point E, outside the circle. ED is a tangent to the circle at D. If AC = 2BC, then what is the measure of angle DEC?

(a) 30°
(b) 60°
(c) 40°
(d) 45°

Q62. By selling an article for Rs. 2300, Rekha gains 25%. If she sells it for Rs. 1955, then her loss/gain percent is:

(a) 6.5% loss
(b) 6.5% gain
(c) 6.25% gain
(d) 6.25% loss

Q63. If ΔABC ~ ΔQPR, Area ΔABC : Area ΔPQR = 9 : 16. If AB = 12 cm, BC = 6 cm and AC = 9 cm, then QR is equal to:

(a) 12 cm
(b) 16 cm
(c) 8 cm
(d) 9 cm

Q64. A wire is in the shape of a rectangle whose sides are in the ratio 7 : 4. It was initially in the shape of a circle of radius, very nearly equal to 31.5 cm. The length of smaller side of the rectangle is:

Take π = 22/7

(a) 44 cm
(b) 36 cm
(c) 40 cm
(d) 32 cm

Q65. A and B together can do a piece of work in 10 days, B and C together can do it in 15 days while C and A together can do it in 20 days. They work together for 8 days. C alone will complete the remaining work in:

(a) 12 days
(b) 3(1)/(5) days
(c) 16 days
(d) 5(1)/(3) days

Q66. A man gets a discount of 30% and then 20% on his food bill. How much equivalent single discount does he get?

(a) 44%
(b) 50%
(c) 40%
(d) 35%

Q67. If $\sqrt{(1 - \cos\theta)/(1 + \cos\theta)} \times \sqrt{(\operatorname{cosec}\theta - \cot\theta)/(\operatorname{cosec}\theta + \cot\theta)} = (1 - r)/(1 + r)$, then the value of r is:

(a) $\sin\theta$
(b) $\operatorname{cosec}\theta$
(c) $\sec\theta$
(d) $\cos\theta$

Q68. In a circle with centre O, ABCD is a cyclic quadrilateral with AB as a diameter of the circle. AD and BC produced to meet at E such that AE = BE. If angle CED = 70°, then what is the measure of angle COD?

(a) 45°
(b) 60°
(c) 30°
(d) 40°

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Q69. If $1/(1 - \sin\theta) + 1/(1 + \sin\theta) = 4\sec\theta$, $0°<\theta<90°$, then the value of $(3 \cot \theta + \text{cosec } \theta)$ is:

(a) $5\sqrt{3}/3$
(b) $4\sqrt{3}$
(c) $5\sqrt{3}$
(d) $2\sqrt{3}/3$

Q70. Out of given four different numbers, the average of the first three numbers is four times the fourth number and the average of all the four numbers is 52. What is the average of the first three numbers?

(a) 39
(b) 65
(c) 70
(d) 64

Q71. The simplified value of $(7/5 \div 7/10 \text{ of } 3/4) \div 4/9 - (7/16 \div 101/2 \times 71/5) \times 5/12$ is:

(a) 47/8
(b) 39/4
(c) 49/8
(d) 41/4

Q72. If one of the angles of a triangle is 64°, then the angle between the bisectors of the other two interior angles is:

(a) 100°
(b) 122°
(c) 96°
(d) 112°

Q73. The price of a commodity is increased by 36% and the quantity purchased is decreased by 30%. What is the percentage increase/decrease in the amount spent on the commodity?

(a) 6%, increase
(b) 4.8%, increase
(c) 6%, decrease
(d) 4.8%, decrease

Q74. If $x \neq -1, 2$ and 5, then the simplified value of $(2(x^3 - 8))/(x^2 - x - 2) \times (x^2 + 2x + 1)/(x^2 - 4x - 5) \div (x^2 + 2x + 4)/(3x - 15)$ is equal to:

(a) 16
(b) 6
(c) 32
(d) 23

Q75. The marked price of an article is Rs. 400. After allowing a discount of 20% on the marked price, a shopkeeper makes a profit of Rs. 32. His gain percent is:

(a) 9%
(b) 11.11%
(c) 12.19%
(d) 8%

GENERAL AWARENESS

Q76. Gahirmatha Sanctuary is the only Sanctuary for _____ in Odisha.

(a) Elephants
(b) Turtles
(c) Crocodiles
(d) Deer

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Q77. In which state is the Chamera Hydro Electric Project located?

(a) Maharashtra
(b) Gujarat
(c) Himachal Pradesh
(d) Punjab

Q78. The newly commissioned 64-foot Vishwaroopa Mahavishnu statue is proposed to be installed at Kothandaramaswamy temple in which city?

(a) Bengaluru
(b) Chennai
(c) Hyderabad
(d) Madurai

Q79. Project 'Mausam' which was launched in June 2014, is an initiative of _____.

(a) Ministry of Earth Sciences
(b) Ministry of Environment and Forests and Climate Change
(c) Ministry of Tourism
(d) Ministry of Culture

Q80. During the Gupta Period, gold coins were called by which of the following names?

(a) Rupaka
(b) Tanka
(c) Drama
(d) Dinaras

Q81. Which river is known as the ‘Handmaid’ of the Narmada?

(a) Mahi
(b) Sabarmati
(c) Luni
(d) Tapti

Q82. The helmet of the wicket-keeper has been kept on the ground and the ball, that the batsman strikes, hits the helmet. How many penalty runs are given to the batting team for this occurrence?

(a) 4
(b) 2
(c) 6
(d) 5

Q83. Which of the following companies has become India's most profitable public sector company in the fiscal year 2018-19?

(a) Bharat Petroleum
(b) Oil and Natural Gas Corporation
(c) NTPC Limited
(d) Indian Oil Corporation

Q84. The scientific discipline concerned with the description of rock successions and their interpretation in terms of a general time scale is called:

(a) Paleontology
(b) Stratigraphy
(c) Mineralogy
(d) Geodesy

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Q85. In March 2019, K. Govindaraj has been unanimously re-elected as president of which of the following organisations?

(a) Basketball Federation of India
(b) All India Tennis Association
(c) Table Tennis Federation of India
(d) Sports Authority of India

Q86. Vembanad lake, which is one of the largest lakes in India, is in which state?

(a) Tamil Nadu
(b) Karnataka
(c) Kerala
(d) Andhra Pradesh

Q87. A database used by Microsoft Windows for storing configuration information is known as:

(a) Registry
(b) Record
(c) Cookie
(d) Cache

Q88. In which year did the Convention of Wadgaon take place?

(a) 1779
(b) 1789
(c) 1769
(d) 1799

Q89. Market structure which is dominated by only a small number of firms is called _____.

(a) Perfect Competition
(b) Monopoly
(c) Oligopoly
(d) Monopolistic Competition

Q90. In 2019, _____ introduced a clause as per which if one is applying for a visa to that country, one needs to furnish a social media track record of the past five years.

(a) Japan
(b) USA
(c) France
(d) UK

Q91. In May 2019, _____ was appointed as the Deputy Executive Director of the United Nations Entity for Gender Equality and the Empowerment of Women for Resource Management, Sustainability and Partnerships.

(a) Anita Bhatia
(b) Amruta Fadnavis
(c) Lakshmi Puri
(d) Sudha Murthy

Q92. In the context of IT services, what is the full form of BCP?

(a) Business Continuity Plan
(b) Business Confirmation Protocol
(c) Business Continuity Protocol
(d) Business Confirmation Plan

Q93. Who is the Managing Director and Editor in Chief of Republic TV?

(a) Barkha Dutt
(b) Prannoy Roy
(c) Rajdeep Sardesai
(d) Arnab Goswami

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Q94. Which of the following sports is played in a velodrome?

(a) Cycling
(b) Fencing
(c) Boxing
(d) Wrestling

Q95. Who is the author of the book 'Cricket World Cup: The Indian Challenge'?

(a) Harsha Bhogle
(b) Sanjay Manjrekar
(c) Ashis Ray
(d) Narottam Puri

Q96. Where is Rhodopsin, also called visual purple, located in the human body?

(a) Hair
(b) Hand
(c) Nail
(d) Eye

Q97. Para Olympic silver Medal winner Girish Gowda has been appointed as Lok Sabha Election Ambassador for the second time of which state?

(a) Tamil Nadu
(b) Kerala
(c) Karnataka
(d) Andhra Pradesh

Q98. The term 'mitochondria' was coined by:

(a) J. E. Salk
(b) Carl Benda
(c) Charles Laveran
(d) Antonie van Leeuwenhoek

Q99. The Lok Sabha elected after the 2019 elections is the _____ Lok Sabha.

(a) 18^(th)
(b) 16^(th)
(c) 15^(th)
(d) 17^(th)

Q100. Who among the following was conferred the Mexican 'Orden Mexicana del Aguila Azteca' award in June 2019?

(a) Nirmala Sitharaman
(b) Sushma Swaraj
(c) Pratibha Patil
(d) Smriti Irani

ANSWER KEY

1	a	2	c	3	b	4	b	5	c	6	a	7	c	8	b	9	a	10	d
11	d	12	a	13	a	14	b	15	a	16	d	17	c	18	a	19	c	20	a
21	d	22	b	23	d	24	c	25	a	26	a	27	d	28	a	29	b	30	a
31	a	32	c	33	d	34	b	35	b	36	b	37	d	38	d	39	a	40	d
41	a	42	a	43	c	44	b	45	b	46	a	47	d	48	a	49	b	50	b
51	b	52	a	53	a	54	b	55	a	56	a	57	b	58	b	59	a	60	b
61	a	62	c	63	a	64	b	65	c	66	a	67	d	68	d	69	a	70	d

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71	a	72	b	73	d	74	b	75	b	76	b	77	c	78	a	79	d	80	d
81	d	82	d	83	b	84	b	85	a	86	c	87	a	88	a	89	c	90	b
91	a	92	a	93	d	94	a	95	c	96	d	97	c	98	b	99	d	100	c

SOLUTIONS

Q1. Answer: (a) has been redirected

The correct answer is option 1

Many of China's exports is a plural subject so the verb should also be in its plural form.

Thus, we need to replace 'has been' with 'have been'.

Improved Sentence: Many of China's exports have been redirected to the domestic market in view of the more consumption-driven economy.

ADDITIONAL INFORMATION-

in view of = because or as a result of.

Eg- "the poor condition of libraries is of concern in view of the increased emphasis on reference work"

Q2. Answer: (c) of organizing

The correct answer is 'of organizing'

Key Points

In the given sentence, the usage of 'by organize' is incorrect Instead use 'of organizing'

'Organize' is a verb that means 'arrange systematically or in order.'

• In the given sentence,'of' is used which is a preposition and we know that we have to use a prepositional object after the preposition and it can be a noun/pronoun.

• The prepositional object can be a noun/pronoun/gerund, a Gerund is a verb form and if we make a gerund we have to use 'ing' form after it.

• We have to use the preposition 'of' instead of 'by' because the former one means 'expressing the relationship between and general category and something which belongs to such category' while 'by' means ‘as a means of’ something or someone.

• 'By' preposition often comes in a passive sentence.

• From the meaning of preposition, we can say that the noun 'responsibility' will take the preposition 'of'.

Additional Information

• When 'of' is used after the noun 'responsibility', the definite article must be used before the noun.

• Let's see an example

• The governor-general has the responsibility of appointing the members of the Queen’s Privy Council for Canada.

So the correct sentence is: Two senior officers have been entrusted with the responsibility of organizing the reception of the guest.

Q3. Answer: (b) Disintegrate

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

Explanation:

ERODE (of wind, water, or other natural agents) means gradually wearing away (soil, rock, or land).

• fix- fasten (something) securely in a particular place or position.

• disintegrate- break up into small parts as the result of impact or decay.

• preserve- maintain (something) in its original or existing state.

• build- construct (something) by putting parts or material together.

The chosen option best expresses the meaning of the given word.

Q4. Answer: (b) has not solved it

The correct answer is option 2 i.e. has not solved it.

Explanation

Yet always follows the present perfect tense of the sentence.

As this sentence has Yet at the end of the sentence we need to write it in the present perfect tense.

He has been solving this sum for a couple of hours but he has not solved it yet.

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Q5. Answer: (c) gobbel

The correct answer is Option 3)

Explanation:

• The correct spelling is 'gobble'. If you gobble food, you eat it quickly and greedily.

Example: Pete gobbled all the stew.

• Meaning of other rightly spelled words are:

• Glory is the fame and admiration that you gain by doing something impressive.

Example: Walsham had his moment of glory when he won a 20km race.

• Goggles are large glasses, often of coloured glass or covered with gauze, that fit closely to your face around your eyes to protect them from such things as water, wind, or dust

Example: a swimmer's goggles

• Global is used to describe something that happens in all parts of the world or affects all parts of the world.

Example: one of the most successful organizations fighting child poverty on a global scale.

Q6. Answer: (a) proliferation

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

Explanation:

• Let's look at the meaning of the given option:

• proliferation- the rapid increase in the number or amount of something.

• promotion- an activity that supports or encourages a cause, venture, or aim.

• propensity- an inclination or natural tendency to behave in a particular way.

• paucity- the presence of something in only small or insufficient quantities or amounts.

• Hence from the given meanings, we find that the correct answer is Option 1 i.e proliferation.

Q7. Answer: (c) aerial

The correct answer is Option 3 i.e. aerial.

Explanation:

• Let's look at the meanings of the given options.

• heavenly- of heaven; divine.

• feathery- having, covered with, or resembling feathers.

• aerial- existing, happening, or operating in the air.

• visual- relating to seeing or sight.

• Hence from the given meanings, we find that the correct answer is Option 3 i.e aerial.

Q8. Answer: (b) encounter

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

appointment- an arrangement to meet someone at a particular time and place.

encounter- unexpectedly be faced with or experience (something hostile or difficult).

enterprise- a project or undertaking, especially a bold or complex one.

commitment- the state or quality of being dedicated to a cause, activity, etc.

Chosen option fits the meaning of the sentence correctly.

Q9. Answer: (a) aggrassive

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

aggressive- ready or likely to attack or confront; characterized by or resulting from aggression.

agriculture- the science or practice of farming, including cultivation of the soil for the growing of crops and the rearing of animals to provide food, wool, and other products.

agitation- a state of anxiety or nervous excitement.

agreement- harmony or accordance in opinion or feeling.

Q10. Answer: (d) be in a dangerous situation

The correct answer is 4 i.e. be in a dangerous situation.

The meaning of the given idiom is- to be in a highly precarious state.

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Q11. Answer: (d) vilify

The solution is in Hindi. Read it online.

Q12. Answer: (a) Many gifts were brought by the merchant for his family from India.

The correct answer is option 1.

Active => subject + v2 + object + other word.

Passive=> Object + was/were + v3 + by + subject + other words.

This structure is being followed by; only option 1.

So, the chose option is correct.

Q13. Answer: (a) sparse

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

Explanation:

DENSE means closely compacted in substance.

• sparse- thinly dispersed or scattered.

• jammed- squeeze or pack tightly into a specified space.

• crammed- completely fill (a place or container) to the point of overflowing.

• piled- place (things) one on top of the other.

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

Q14. Answer: (b) to get rid of

• The correct answer is Option 2.

• The meaning of the given idiom 'To shake off' means 'to rid or free oneself from someone or something that one finds aggravating, upsetting, or annoying'

• Therefore, the only option that gives the meaning of the given context is Option 2 'to get rid of'.

Q15. Answer: (a) Bhola asked his friend how he could make that charcoal white.

• The correct answer is Option 1.

• The given sentence is in interrogative form when changed into indirect form it becomes an assertive sentence.

• 'said to' changes to 'asked', first person changes to the third person, can changes to could, this changes to that.

• Therefore, the correct sequence is followed by option 1 i.e. 'Bhola asked his friend how he could make that charcoal white'.

Q16. Answer: (d) to a small electric car

• The correct answer is Option 4.

• The error lies in the wrong usage of the preposition 'to' which is used to show direction.

• The correct preposition to be used here is 'of' which is used for belonging to, relating to, or connected with.

• In the above sentence, the launch is related to a small electric car.

Q17. Answer: (c) Compress

The correct answer is Option 3) i.e. Compress

Explanation:

The meaning of the given words:

• Exaggerate: To overstate, to describe more than is fact.

• Heighten: To make high; yo raise higher; to elevate.

• Amplify: To render larger, more extended, or more intense.

• Compress: To make smaller, squash, squeeze, shorten, truncate.

• Overdo: to do too much of something.

Therefore, it is obvious that the word 'Compress' is the antonym of the given word and all other options are synonyms.

Q18. Answer: (a) CBDA

• The correct answer is Option 1.

• Sentence C is talking about a person called 'Mark Eklund', sentence B is introducing that person.

• Sentence D is describing his personality and his mischievousness which is continued in sentence A that talks about one of his mischievous things.

• Therefore, the correct sequence is followed in Option 1 i.e. CBDA.

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Q19. Answer: (c) implicate

The correct answer is Option 3) i.e. Implicate

Explanation: The meaning of the given words:

• Entangle: To involve in difficulties or embarrassments.

• Exclude: To keep out, to omit from consideration.

• Clarity: The state or measure of being clear.

• Implicate: To connect or involve in an unfavourable way with something.

• Release: The act of setting free.

Therefore, out of given options, the word 'implicate' is the appropriate synonym of 'entangle'.

Q20. Answer: (a) make

• The correct answer is Option 1.

• The subject 'additives' is plural so the verb should also be in plural form. Option 2 gets eliminated.

• The sentence is in present indefinite tense, so the blank should satisfy the tense. Option 3 & 4 get eliminated.

• Therefore, 'make' is the correct word which fits in the blank

Q21. Answer: (d) people

• The correct answer is Option 4.

• The passage is beginning with 'People make plastic products'. The same context should be continued in the passage.

• Therefore, the correct word to be used is 'people'.

Q22. Answer: (b) material

• The correct answer is Option 2.

• The meaning of the given words:

• Component: A smaller part of a larger entity.

• Material: Matter which may be shaped or manipulated.

• Thing: That which is considered to exist as a separate entity, object.

• Object: A thing that has a physical existence.

• Plastic is a material that can be shaped or manipulated. Therefore, option 2 is the correct answer.

Q23. Answer: (d) of

• The correct answer is Option 4.

• The preposition 'to' is used to indicate the place, person, or thing that someone or something moves toward, or the direction of something.

• 'with' is used Used to indicate being together or being involved.

• 'in' is used Used for unspecific times during a day, month, season, year.

• 'of' is used Used for belonging to, relating to, or connected with.

• The correct preposition to be used here is 'of' as in the passage we are mentioning to which the new type of material belongs.

Q24. Answer: (c) When

• The correct answer is Option 3.

• The correct conjunction to be used here is 'when' which is used when introducing a single completed event that takes place in the middle of a longer activity or event.

• The other conjunctions do not give a proper sense to the sentence.

Q25. Answer: (a) ADBC

The correct answer is ADBC.

Key Points

• The only independent sentence among the given sentences is A which is our first sentence.

• Sentence A is talking about Oliver making a big snowman which is continued in sentence D as it is describing how big the snowman is.

• Therefore, option beginning with AD sequence is in Option 1 i.e. ADBC.

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Q26. Answer: (a) 30

Let the number of boys in a class in June = 2x

Then the number of girls in June = x

In July, the number of girls = x + 5

And the number of boys = 2x – 5

Now, according to the question, in July,

Number of girls = Number of boys

x + 5 = 2x – 5

→ x = 10

So, the number of boys in class in June = 2x = 2 × 10 = 20, and the number of girls in class in June = x = 10.

Hence, the total number of students is 20 + 10 = 30.

Q27. Answer: (d) QCPDDPQC

Let's check each option:

1)Q C Q D P C P C / Q C Q P P C P D / Q C Q D P C P D → doesn't follow a pattern

2)P C Q D P C P D / Q C Q D P C P D / Q C D D P C P D → doesn't follow a pattern

3)Q C Q D P C D D / Q C Q D P C P D / Q C Q D P D P D → doesn't follow a pattern

4)Q C Q D P C P D / Q C Q D P C P D / Q C Q D P C P D → follows a pattern

Q C Q D P C P D is repeated.

Hence, the correct answer is “QCPDDPQC”.

Q28. Answer: (a) Nephew

Using the below table of symbols, we can draw the family tree.

The possible family tree is as follows:

Hence, Mayank is the nephew of Naman.

Q29. Answer: (b) [figure]

When folded, the transparent sheet will look like the below figure.

Hence, option 2 is the correct answer.

Q30. Answer: (a) 257 : 16

The following logic is applied for 442 : 21

$21^2 + 1 = 441 + 1 = 442$

Similarly,

$16^2 + 1 = 256 + 1 = 257$

Hence, the correct answer is 257 : 16.

Q31. Answer: (a) Father-in-law

The codes are :

A is			
•	•	×	÷
Mother	Wife	Brother	Husband
Of B			

T ÷ V + Q - J × M + U means T is the husband of V. V is the mother of Q. Q is Wife of J who is brother of M. M is the mother of U.

Hence, T is the father-in-law of J.

Q32. Answer: (c) 210

The pattern followed here is:

Hence, the correct answer is 210.

Q33. Answer: (d) Body

A Chassis is the base frame of a car.

Similarly, a skeleton is the base frame of a body.

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Hence, the correct answer is ‘Body’.

Q34. Answer: (b) [figure]

The figure (X) is embedded in the below figure.

Hence, option 2 is the correct answer.

Q35. Answer: (b) (80, 98, 69)

The pattern followed here is:

GIven : (84, 60, 51) → (84 ÷ 4 = 21, 60 ÷ 2 = 30) and (21 + 30 = 51)

Similarly, we will check with the other options.

option 1,

(64, 80, 72)

→ (64 ÷ 4 = 16, 80 ÷ 2 = 40) and (16 + 40 = 56)

option 2,

(80, 98, 69)

→ (80 ÷ 4 = 20, 98 ÷ 2 = 49) and (20 + 49 = 69)

option 3,

(72, 56, 62)

→ (72 ÷ 4 = 18, 56 ÷ 2 = 28) and (18 + 28 = 46)

option 4,

(52, 64, 47)

→ (52 ÷ 4 = 13, 64 ÷ 2 = 32) and (13 + 32 = 45)

Hence, (80, 98, 69) is the correct answer.

Q36. Answer: (b) Atoms

Cells, Tissues, and Organs are the different levels of organization of the bodies of living organisms.

An atom is a fundamental unit of a chemical element.

Hence, 'atoms' is the odd one among the given options.

Q37. Answer: (d) [figure]

All ‘Fathers’ are men. ‘Players’ can be men or fathers.

Hence, the correct answer is option 4.

Q38. Answer: (d) 2

From the first two positions of the dice, we can see that 1, 4, 5, and 6 are adjacent to 2.

Now, the only number left is 2.

Hence, 2 is the number on the face opposite to the face showing 3.

Q39. Answer: (a) All the conclusions follow.

Conclusions:

I. No college is a school → True (No school is college.)

II. Some schools are parks → True (All parks are schools)

III. No park is a college → True (All parks are schools and no school is college so no park will be college)

Hence, the correct answer is ‘All the conclusions follow’.

Q40. Answer: (d) [figure]

The figure is rotating in the clockwise direction.

Hence, the correct answer is option 4.

Q41. Answer: (a) SBUVLQXO

The pattern followed here is:

Similarly,

Hence, SBUVLQXO is the correct answer.

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Q42. Answer: (a) (3, 5, 34)

The pattern followed here is:

(4, 6, 52) → $4^2 + 6^2 = 16 + 36 = 52$

Similarly,

(3, 5, 34) → $3^2 + 5^2 = 9 + 25 = 34$

Hence, the correct answer is (3, 5, 34).

Q43. Answer: (c) • and -

Expression : 868 + 14 × 55 – 1064 ÷ 56

After interchanging the signs :

Option 1 (+ and ÷)

868 ÷ 14 × 55 – 1064 + 56

= 62 × 55 – 1064 + 56

= 3410 – 1064 + 56

= 3466 - 1064

= 2402 ≠ 117

Option 2 (× and -)

868 + 14 – 55 × 1064 ÷ 56

= 868 + 14 – 55 × 19

= 868 + 14 – 1045

= 882 - 1045

= - 163 ≠ 117

Option 3 (+ and -)

868 – 14 × 55 + 1064 ÷ 56

= 868 – 14 × 55 + 19

= 868 – 770 + 19

= 887 – 770

= 117

Option 4 (÷ and ×)

868 + 14 ÷ 55 – 1064 × 56

= 868 + 14 ÷ 55 – 59584

= 868 + 0.25 – 59584

= 868.25 – 59584

= -58715.75 ≠ 117

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

Q44. Answer: (b) 74

The pattern followed here is:

W → 23 × 2 = 46 and

CAT → (3 + 1 + 20) × 2 = 24 × 2 = 48

Similarly, SALE → (19 + 1 + 12 + 5) × 2 = 37 × 2 = 74

Hence, the correct answer is 74.

Q45. Answer: (b) 26

Triangles in the given diagram is AHL, ALI, AHI, ABM, AGM, ABG, CJV, CVK, CJK, CBS, CSD, CBD, SNT, STQ, SNQ, SOU, SUR, SOR, SGF, SFE, SGE, CGE, CGF, CFE, CSG, CSE.

Thus, there are a total of 26 triangles.

Hence, 26 is the correct answer.

Q46. Answer: (a) [figure]

The mirror image of the question figure is as follows:

Hence, option 1 is the correct answer.

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Q47. Answer: (d) QUFW

The pattern followed here is:

Similarly,

Hence, the correct answer is QUFW.

Q48. Answer: (a) 490

The pattern followed here is:

16 × 2 = 32; 32 - 2 = 30

30 × 2 = 60; 60 + 2 = 62

62 × 2 = 124; 124 - 2 = 122

122 × 2 = 244; 244 + 2 = 246

246 × 2 = 492; 492 - 2 = 490

Hence, 490 is the correct answer.

Q49. Answer: (b) SPJ

The pattern followed here is:

Hence, the correct answer is SPJ.

Q50. Answer: (b) Opthalmology : Eyes

Nephrology is the study of Kidneys.

Similarly, Opthalmology is the study of Eyes.

Hence, Opthalmology : Eyes is the correct answer.

Q51. Answer: (b) 36

Given:

The ratio of speeds of A and B = 3 : 5

Time taken by A to cover a distance = 24 minutes more than B

Formula used:

Speed = Distance traveled/Time taken

If Distance → Constant, then Speed prop. to 1/time

Calculation:

Ratio of speeds of A and B = 3 : 5

=> Ratio of time of A and B = 5 : 3

Let time taken by A and B be 5x and 3x respectively.

Difference in time taken by A and B = 5x – 3x = 2x = 24 mins.

=> x = 12

Time taken by B to cover the same distance = 3x = 3 × 12 = 36 mins

Q52. Answer: (a) a(c - b)/(c + b)

By internal angle bisector theorem, the bisector of vertical angle of a triangle divides the base in the ratio of the other two sides”

AB/AC = BD/DC

=> c/b = x/(a – x)

=> bx = ac – cx

=> bx + cx = ac

=> x(b + c) = ac

=> x = ac/(b + c)

Now,

BD – DC = x – (a – x)

=> x – a + x

=> 2x – a

=> 2ac/(b + c) – a

=> (2ac – ab – ac)/(b + c)

=> ac – ab/(b + c)

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=> a(c – b)/(c + b)

Q53. Answer: (a) 28

Calculation:

The average number of students enrolled in B during 2015, 2016, and 2018

=> (360 + 375 + 225)/3 = 320

The number of students enrolled in A during 2017 = 250

Required percentage = (320 – 250)/250 × 100 = 28%

Q54. Answer: (b) 47.7

Calculation:

The total number of students enrolled in A during 2014, 2016, and 2018

=> 160 + 300 + 260 = 720

The total number of students enrolled in B during the period of five years

=> 225 + 360 + 375 + 325 + 225 = 1510

Required percentage = 720/1510 × 100 = 47.7%

Q55. Answer: (a) 9 : 10

Calculation:

The total number of students enrolled in A during 2015 and 2018

=> 280 + 260 = 540

The total number of students enrolled in B during 2014 and 2016

=> 225 + 375 = 600

Therefore Required ratio = 540 : 600 = 9 : 10

Q56. Answer: (a) 2015

Calculation:

For year 2015:

The number of students enrolled in B is more than the number of students enrolled in A by 360 – 280 = 80

Percent by which the number of students in B exceeds by A = 80/280 × 100 = 28.57%

For year 2017:

The number of students enrolled in B is more than the number of students enrolled in A by 325 – 250 = 75

Percent by which the number of students in B exceeds by A = 75/250 × 100 = 30%

For year 2016:

The number of students enrolled in B is more than the number of students enrolled in A by 375 – 300 = 75

Percent by which the number of students in B exceeds by A = 75/300 × 100 = 25%

For year 2014:

The number of students enrolled in B is more than the number of students enrolled in A by 225 – 160 = 65

Percent by which the number of students in B exceeds by A = 65/160 × 100 = 40.625%

Therefore In year 2015, the number of students enrolled in B is x% more, where 25 < x < 30, than the number of students enrolled in A in the same year

Q57. Answer: (b) 322

Shortcut TrickIf x + 1/x = a

=> x3 + 1/x3 = a³- 3a

=> x3 + 1/x3 = 73 - (3 × 7) = 322

Detailed Solution:

x + 1/x = 7

=> $(x + 1/x)^3 = 343$

=> $x^3 + 1/x^3 + 3(x + 1/x) = 343$

=> $x^3 + 1/x^3 + 3(7) = 343$

=> $x^3 + 1/x^3 = 343 – 21$

=> $x^3 + 1/x^3 = 322$

Q58. Answer: (b) 5

Given:

250√2 x3 – 5√5 y3 = (5√2 x - √5 y) × (Ax2 + Bxy + Cy2) ----(1)

Formula used:

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

Calculation:

Taking L.H.S. of Eq(1)

$250\sqrt{2}\, x^3 – 5\sqrt{5}\, y^3$

$=> (5\sqrt{2}\, x - \sqrt{5}\, y) \times [(5\sqrt{2}\, x)^2 + 5\sqrt{10}\, xy + (\sqrt{5}\, y)^2]$

$=> (5\sqrt{2}\, x - \sqrt{5}\, y) \times (50x^2 + 5\sqrt{10}\, xy + 5y^2)$

Equating with R.H.S.

$(5\sqrt{2}\, x - \sqrt{5}\, y) \times (50x^2 + 5\sqrt{10}\, xy + 5y^2) = (5\sqrt{2}\, x - \sqrt{5}\, y) \times (Ax^2 + Bxy + Cy^2)$

A = 50, B = 5√10, C = 5

A + C - √10 B = 50 + 5 – 50

Therefore A + C - √10 B = 5

Q59. Answer: (a) 3 : 1

Given:

The ratio of two numbers A and B = 5 : 2

Ratio of two numbers if 4 is added to it = 9 : 4

Calculation:

Let the two numbers be 5x and 2x

When 4 is added to each number,

(5x + 4)/(2x + 4) = 9/4

=> 4(5x + 4) = 9(2x + 4)

=> 20x + 16 = 18x + 36

=> 20x – 18x = 36 – 16

=> 2x = 20

=> x = 10

The original number = 5x = 50 and 2x = 20

When 5 is subtracted from each number, the ratio

=> (50 - 5) : (20 - 5) = 45 : 15 = 3 : 1

Shortcut Trick

	A	B	Difference
Ratio	5	2	3 units
Ratio after Addition of 4	9	4	5 units

To make difference same, multiply 1st ratio by 5 and 2nd by 3, we get,

	A	B
Ratio	25	10
Ratio after Addition of 4	27	12

=> 2units = 4

=> 1 unit = 2

Then A = 25 × 2 = 50 and B = 10 × 2 = 20

When 5 is subtracted from each number, the ratio

=> (50 - 5) : (20 - 5) = 45 : 15 = 3 : 1

Q60. Answer: (b) Rs. 8,000

Given:

Amount = Rs. 29282

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Rate = 10% per annum
Time = 4 years
Formula used:
For compound interest,
$A = P(1 + r/100)^n$
For Simple Interest
S.I. = (P × R × T)/100
Where, A = Amount
P = Principal
r = rate of interest
n = time period in years
Calculation:
=> 29282 = P(1 + 10/100)^4
=> 29282 = P(11/10)^4
=> P = 29282 × 10/11 × 10/11 × 10/11 × 10/11
=> P = Rs. 20000
Now,
S.I. = PRT/100
=> S.I. = (20000 × 10 × 4)/100
=> S.I. = Rs. 8000

Q61. Answer: (a) 30°

As the diagonals of the rectangle are equal and bisect each other,
AO = OC = DO = OB = ½ AC = ½ BD
Given:
AC = 2BC
=> AO = OC = BO = BC
In ΔOCB, OC = OB = BC
=> ΔOCB is an equilateral triangle
=> angle COB = 60°
=> angle DOA = 60° (Because Vertically opposite angle)
In ΔODE, angle ODE = 90° (Because Angle made by a tangent and the radius is 90°)
In ΔODE, sum of the angles = 180°
(Because angle DOE = angle DOA)
=> angle DEC = 180 - angle ODE - angle DOE
=> angle DEC = 180 – 90° - 60°
=> angle DEC = 30°

Q62. Answer: (c) 6.25% gain

Given:
S.P. of an article = Rs. 2300
Gain% = 25%
Formula used:
C.P. = (S.P. × 100)/(100 + gain%)
Loss % = (Loss/C.P.) × 100%
Calculation:
C.P. of article = 2300 × 100/(100 + 25) = Rs. 1840
If the article is sold for Rs.1955, profit = 1955 – 1840 = 115
Therefore Gain percent = 115/1840 × 100 = 6.25%
Shortcut TrickGain% = 25% = 1/4
Ratio of C.P. to S.P. = 4 : 5
=> 5 units = 2300

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=> 4 units = (2300/5) × 4 = Rs. 1840

If S.P. = Rs.1955, then Profit = 1955 - 1840 = 115

Therefore Gain percent = 115/1840 × 100 = 6.25%

Q63. Answer: (a) 12 cm

Given:

ΔABC ~ ΔQPR

Area ΔABC : Area ΔPQR = 9 : 16

Concept used:

If two triangles are similar, then the ratio of their areas will be equal to the ratio of the squares of their corresponding sides.

=> Area ΔABC : Area ΔPQR = AB^2/PQ^2

Calculation:

=> Side ΔABC : Side ΔPQR = √9 : √16 = 3 : 4

ΔABC ~ ΔQPR

=> AC/QR = 3/4

=> 9/QR = 3/4

=> QR = 12 cm

Q64. Answer: (b) 36 cm

Given:

Ratio of sides of rectangle = 7 : 4

Circumference of wire = 31.5 cm

Formula used:

Circumference of circle = 2πr

Perimeter of rectangle = 2(l + b)

Calculation:

Circumference of circle = 2 × 22/7 × 31.5

=> 198 cm

Let the length and breadth of rectangle be 7x and 4x respectively

Perimeter of rectangle = 2(l + b) = 2(7x + 4x) = 22x

Now,

Circumference of circle = perimeter of rectangle (as the wire is same)

=> 198 = 22x

=> x = 9

Therefore The length of smaller side = 4x = 4 × 9 = 36 cm

Q65. Answer: (c) 16 days

Shortcut Trick

Total Work (LCM of 10, 15, 20) = 60 units.

Combined efficiency 2(A+B+C) = 6 + 4 + 3 = 13 => A+B+C = 6.5 units/day.

Work done in 8 days = 6.5 × 8 = 52 units.

Remaining work = 60 − 52 = 8 units.

Efficiency of C = (A+B+C) − (A+B) = 6.5 − 6 = 0.5 units/day.

Time taken by C = 8 ÷ 0.5 = 16 days.

Therefore The correct answer is 16 days.

Alternate Method

Given: (A + B) takes 10 days, (B + C) takes 15 days, (C + A) takes 20 days.

Formula Used: Efficiency = Total Work ÷ Time Taken

Person	Days	Total Work	Efficiency
A + B	10	60	6
B + C	15	4	

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C + A	20	3	

=> Adding efficiencies: 2(A + B + C) = 6 + 4 + 3 = 13

=> Efficiency of (A + B + C) = 13 ÷ 2 = 6.5 units/day

=> Work completed by all three in 8 days = 6.5 × 8 = 52 units

=> Remaining work = 60 − 52 = 8 units

=> Efficiency of C = Efficiency of (A+B+C) − Efficiency of (A+B) = 6.5 − 6 = 0.5 units/day

=> Time taken by C alone = Remaining Work ÷ Efficiency of C = 8 ÷ 0.5 = 16 days

Therefore The correct answer is 16 days.

Additional Information

Combined Efficiency Property

When pairs are given (A+B, B+C, C+A), the sum of their efficiencies is always twice the total efficiency of A, B, and C combined.

Pipes and Cisterns

This logic applies to pipes filling a tank, where negative efficiency is used for outlet pipes (leaks).

Work and Wages

Wages are always distributed in the ratio of the actual work done by each individual or their efficiencies if they work for the same duration.

Q66. Answer: (a) 44%

Given:

The successive discount are 30% and 20%.

Formula used:

Equivalent single discount = X + Y - (XY)/100

Where,

X = First discount

Y = Second discount

Calculation:

Equivalent single discount = X + Y - (XY)/100

=> 30 + 20 – (30 × 20)/100

=> 50 – 6

=> 44%

Therefore Equivalent single discount is 44%.

Q67. Answer: (d) cosθ

L.H.S.

√(1 - cosθ)/(1 + cosθ) × √(cosecθ - cotθ)/(cosecθ + cotθ)

=> √((1 - cosθ)(1 + cosθ))/((1 + cosθ)(1 + cosθ)) × √((cosecθ - cotθ)(cosecθ - cotθ))/((cosecθ + cotθ)(cosecθ - cotθ))

=> √frac(1 - cos²θ (1 + cosθ)² × √frac(cosecθ - cotθ)²(cosec²θ - cot²θ)

=> √fracsin²θ(1 + cosθ)² × √(((cosecθ - cotθ)²)/1)

=> sinθ/(1 + cosθ) × (cosecθ - cotθ)/1

=> sinθ/(1 + cosθ) × (1/sinθ - cosθ/sinθ)

=> sinθ/(1 + cosθ) × (1 - cosθ)/sinθ

=> (1 - cosθ)/(1 + cosθ)

Comparing with R.H.S.

(1 - cosθ)/(1 + cosθ) = (1 - r)/(1 + r)

r = cosθ

in the second step we have not taken conjugate but simply multiplied by 1 whose value is (1 + cosθ)/(1 + cosθ).

Q68. Answer: (d) 40°

Given:

AE = BE

=> ΔAEB is an isosceles triangle.

=> angle EAB = angle EBA

In ΔAEB, angle AEB + angle EAB + angle EBA = 180°
=> 70° + 2angle EAB = 180°
=> 2angle EAB = 110°
=> angle EAB = 55°
=> angle EBA = 55°
Now, DO = AO = OC = OB = radius
In ΔADO,
AO = OD
=> angle DAO = angle ADO = 55°
=> angle DOA = 180° - 55° - 55° = 70°
In ΔOCB
OC = OB
=> angle CBO = angle BCO = 55°
=> angle COB = 180° - 55° - 55° = 70°
Now, angle AOB = 180°
angle COD = 180° - angle DOA - angle COB
=> angle COD = 180° - 70° - 70° = 40°

Q69. Answer: (a) 5√3/3

Given:
1/(1 - sinθ) + 1/(1 + sinθ) = 4secθ
Formula used:
$\cos^2\theta + \sin^2\theta = 1$
=> $\cos 2\theta = 1 - \sin 2\theta$
Calculation:
1/(1 - sinθ) + 1/(1 + sinθ) = 4secθ
=> 1/(1 - sinθ) × (1 + sinθ)/(1 + sinθ) + 1/(1 + sinθ) × (1 - sinθ)/(1 - sinθ) = 4secθ
=> (1 + sinθ /1 – $\sin^2\theta$) + (1 – sinθ /1 – $\sin^2\theta$) = 4secθ
=> (1 + sinθ /$\cos^2\theta$) + (1 – sinθ /$\cos^2\theta$) = 4secθ
=> (1 + sinθ + 1 – sinθ)/$\cos^2\theta$ = 4secθ
=> 2/$\cos^2\theta$ = 4secθ
=> 2$\sec^2\theta$ = 4secθ
=> secθ = 2
=> θ = 60°
Now,
3 cotθ + cosecθ = 3cot60° + cosec60°
=> 3 cotθ + cosecθ = 3 × (1/√3) + (2/√3)
=> 3 cotθ + cosecθ = 5/√3
Multiply by √3 in numerator and denominator, Then we get
=> 3 cotθ + cosecθ = 5√3/3
Therefore The value of (3 cot θ + cosec θ) is 5√3/3.

Q70. Answer: (d) 64

Given:
Average of 1st three numbers = 4 × fourth no.
Average of all the four numbers = 52
Formula used:
Average = Sum of observation/no. of observation
Calculation:
Let the four numbers be a, b, c and d
According to question:
(a + b + c)/3 = 4d

=> a + b + c = 12d

Also,

(a + b + c + d)/4 = 52

=> a + b + c + d = 52 × 4 = 208

=> 12d + d = 208

=> 13d = 208

=> d = 16

Therefore The average of first 3 numbers = 4d = 4 × 16 = 64

Q71. Answer: (a) 47/8

Concept used:

Calculation:

(7/5 ÷ 7/10 of3/4) ÷ 4/9 - (7/16 ÷ 101/2 × 71/5) × 5/12~~

=> (7/5 ÷ 21/40) ÷ 4/9 - (7/16 ÷ 21/2 × 36/5) × 5/12~~

=> (7/5 × 40/21) × 9/4 - (7/16 × 2/21 × 36/5) × 5/12~~

=> (8/3) × 9/4 - (3/10) × 5/12~~

=> 6 – 1/8

=> 47/8

Q72. Answer: (b) 122°

Shortcut Trick

For a triangle with interior angle bisectors, the angle between the bisectors of the other two angles is given by the formula:

Required Angle = 90° + (Third Angle / 2)

Given the third angle (A) = 64°.

=> Required Angle = 90° + (64° / 2)

=> 90° + 32° = 122°.

Therefore The correct answer is 122°.

Alternate Method

Given:

In ΔABC, let angle A = 64°. The bisectors of angle B and angle C meet at point I (the incenter).

Formula Used:

1. Angle Sum Property: angle A + angle B + angle C = 180°

2. In ΔBIC, angle BIC + angle IBC + angle ICB = 180°

Calculations:

In ΔABC:

=> angle A + angle B + angle C = 180°

=> 64° + angle B + angle C = 180°

=> angle B + angle C = 180° − 64° = 116°

Dividing the entire equation by 2:

=> (angle B / 2) + (angle C / 2) = 116° / 2 = 58°

In ΔBIC, where I is the intersection of bisectors:

=> angle BIC + angle IBC + angle ICB = 180°

Since BI and CI are bisectors, angle IBC = angle B / 2 and angle ICB = angle C / 2:

=> angle BIC + (angle B / 2) + (angle C / 2) = 180°

=> angle BIC + 58° = 180°

=> angle BIC = 180° − 58° = 122°

Therefore The correct answer is 122°.

Additional Information

Incenter (I)

The point where all three internal angle bisectors of a triangle intersect. It is the center of the incircle.

External Bisector Angle

The angle between the external bisectors of two angles of a triangle is given by 90° − (A / 2).

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Angle Sum Property

The sum of the interior angles of any triangle is always equal to 180°.

Excenter Angle

The angle formed by one internal bisector and one external bisector of the other two angles is A / 2.

Q73. Answer: (d) 4.8%, decrease

Given:

Increase % in price of commodity = 36%

Decrease in quantity = 30%

Concept used:

Expenditure = Price of commodity × Quantity

Calculation:

Let the price of a commodity be Rs. 100/unit and the quantity purchased be 10 units

=> Amount spent = 100 × 10 = Rs. 1000

Now the price increased by 36%

=> The new price will be Rs.136/unit

The quantity purchased decreases by 30%

The new quantity purchased will be 10 × (100 – 30)/100 = 7 units

=> The new expenditure = 136 × 7 = 952

Decrease in amount spent = 1000 – 952 = Rs. 48

Therefore Required percentage = 48/1000 × 100 = 4.8%

Q74. Answer: (b) 6

Given:

$(2(x^3 - 8))/(x^2 - x - 2) \times (x^2 + 2x + 1)/(x^2 - 4x - 5) \div (x^2 + 2x + 4)/(3x - 15)$

Formula used:

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

Calculation:

$x^3 - 8$ can be written as $(x - 2)(x^2 + 4 + 2x)$

$(x^2 - x - 2)$ can be written as in factor form $(x - 2)(x + 1)$

$(x^2 - 4x - 5)$ will be $(x + 1)(x - 5)$

$(x^2 + 2x + 1) = (x + 1)^2$

=> $(2(x - 2)(x^2 + 2x + 4))/((x - 2)(x + 1)) \times ((x + 1)^2)/((x + 1)(x - 5)) \times (3(x - 5))/((x^2 + 2x + 4))$

=> 6

Q75. Answer: (b) 11.11%

Given:

M.P. of an article = Rs. 400

Discount % = 20%

Profit = Rs. 32

Formula used:

S.P. = M.P. × (100 - Discount%)/100

Profit = S.P. - C.P.

Profit % = Profit/C.P. × 100

Calculation:

S.P = M.P. × 80/100

=> 400 × 80/100

=> Rs. 320

C.P. = S.P. – Profit

=> 320 – 32

=> Rs. 288

Therefore Gain percentage = 32/288 × 100 = 11.11%

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Q76. Answer: (b) Turtles

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

Key Points

• Gahirmatha sanctuary located within the close vicinity of the Bhitarkanika National Park is Odisha's only Turtle Sanctuary.

• It is very famous for its nesting beach for Olive Ridley Turtles. It is one of the most important nesting beaches for turtles.

• The Gahirmatha Marine Wildlife Sanctuary is the only marine sanctuary of Orissa. In 1997 the Government of Orissa declared the area as Gahirmatha Marine Sanctuary considering its ecological significance and diverse floral and faunal resources.

• These turtles are known for the epic journeys that they undertake annually to breed and recuperate. It has been observed that Olive Ridley Sea Turtles migrate from the pacific ocean through the coastal water of Sri Lanka in the Indian Ocean to the coastal water of Gahirmatha in the north.

• They usually mate between November and January and the breeding period is of eight months from October to May.

Q77. Answer: (c) Himachal Pradesh

The correct answer is option 3) i.e. Himachal Pradesh.

• Chamera Power Station was established to harness the hydropower potential of river Ravi.

• It is located in Chamba district of Himachal Pradesh.

• The project comprises of a 121 m high, 295 m long concrete arch-gravity dam with 9.5 m dia., 6.414 Km long headrace tunnel.

• The underground powerhouse with an installed capacity of 540 MW houses 3 units of 180 MW capacity each designed to generate 1664.56 million units in a 90% dependable year with 95% machine availability.

• All the three generating units of the power station were commissioned in the month of April-1994.

• Uttarakhand, UP, Delhi, HP, Haryana, J&K, Punjab, Rajasthan and Chandigarh (UT) are the beneficiary states of this power station.

Q78. Answer: (a) Bengaluru

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

• Vishwaroopa Mahavishnu statue, which is 64 feet tall, is to be installed in the premises of Kothandaramaswamy temple in Viveknagar area of Bengaluru, Karnataka.

• This massive monolithic statue of Vishwaroopa Mahavishnu, weighing 300-tonne, was brought to the temple from Korakkotai village in Tiruvannamalai district in Tamil Nadu.

Q79. Answer: (d) Ministry of Culture

The correct answer is option 4) i.e. Ministry of Culture.

• Project 'Mausam' is a Ministry of Culture project to be implemented by Indira Gandhi National Centre for the Arts (IGNCA), New Delhi as the nodal coordinating agency with the support of Archeological Survey of India and National Museum as associate bodies.

• This project aims to explore the multi-faceted Indian Ocean 'world'–collating archaeological and historical research in order to document the diversity of cultural, commercial and religious interactions in the Indian Ocean

• The project was launched by India at the 38th World Heritage Session at Doha, Qatar on 20th June 2014.

Q80. Answer: (d) Dinaras

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

• During the Gupta Period, gold coins were called Dinaras.

• After the Kushanas, the Guptas were the most important dynasty.

• The Gupta period has been described as the Golden Age of Indian history.

• The first famous king of the Gupta dynasty was Ghatotkacha's son Chandragupta I. He married Kumaradevi, the daughter of the chief of the Licchavis.

• Chandragupta I was succeeded by Samudragupta in about 330 A.D., who reigned for about fifty years.

• Samudragupta's successor Chandragupta II, also known as Vikramaditya, conquered the extensive territories of Malwa, Gujarat and Kathiawar.

• Kalidasa, the greatest Sanskrit poet and dramatist prospered during his reign.

Important Points

Gupta Dynasty:

• The founder of the Gupta dynasty was Sri Gupta.

• He was succeeded by Ghatotkacha. These two were called Maharajas.

• The next ruler was Chandragupta I and he was the first to be called Maharajadhiraja.

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• He was a great military genius and is said to have commanded a military campaign across the Deccan, and also subdued the forest tribes of the Vindhya region.

Key Points

Some famous events during the rule of Gupta Kings:

• The famous Chinese pilgrim, Fahien visited India during the reign of Chandragupta II.

• Out of his nine years of stay in India, he spent six years in the Gupta empire.

• Chandragupta II waged war against the Saka satraps of western India.

• Rudrasimha III, the last ruler of the Saka satrap was defeated, dethroned, and killed. His territories in western Malwa and the Kathiawar Peninsula were annexed into the Gupta Empire.

• Kumaragupta laid the foundation of Nalanda University.

Q81. Answer: (d) Tapti

The correct answer is option 4) i.e. Tapti(Tapi)

• Tapti is also known as the river Tapi.

• Tapi River is known as the 'Handmaid' of the Narmada river.

• Place of origin of Tapti river in Eastern Satpura range in Madhya Pradesh.

• The Tapti River is agriculturally very important as it drains an area of over 65,145 sq. km. spread over Madhya Pradesh, Maharashtra and Gujarat.

• The Melghat Tiger Reserve in Amravati district in Maharashtra, a part of Project Tiger, is situated on the southeast bank of the Tapti River along the Madhya Pradesh and Maharashtra boundary.

Q82. Answer: (d) 5

The correct answer is option 4) i.e. 5.

• Protective helmets, when not in use by fielders, should be placed only on the ground behind the wicket-keeper and in line with both sets of stumps.

• If a protective helmet belonging to the fielding side is on the ground within the field of play, and the ball while in play strikes it, the ball shall become dead and 5 penalty runs shall then be awarded to the batting side, in addition to the penalty for a No ball or a Wide, if applicable.

• Additionally runs completed by the batsmen before the ball strikes the protective helmet shall be scored, together with the run in progress if the batsmen had already crossed at the instant of the ball striking the protective helmet.

• http://ndca.nsw.cricket.com.au/files/2977/files/laws/Law41.htm

Q83. Answer: (b) Oil and Natural Gas Corporation

The correct answer is option 2) i.e. Oil and Natural Gas Corporation.

• ONGC, India's top oil and gas producer toppled Indian Oil Corporation (IOC) and regained the crown of being the country's most profitable public sector unit (PSU).

• ONGC reported a 34 % jump in its 2018-19 fiscal net profit to Rs 26,716 crore.

• In the previous two financial years, IOC was the country's most profitable PSU.

• IOC had also lost the title of being India's largest company by turnover tag to billionaire Mukesh Ambani-led Reliance Industries in FY19.

Q84. Answer: (b) Stratigraphy

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

• The scientific discipline concerned with the description of rock successions and their interpretation in terms of a general time scale is called Stratigraphy.

• The lowest layers are the oldest and the highest are the most recent.

• Artefacts found in layers can be assigned to specific cultural periods and can thus provide the cultural sequence for a site.

• Palaeontology is the study of the history of life on Earth as based on fossils. Fossils are the remains of plants, animals, fungi, bacteria, and single-celled living things that have been replaced by rock material or impressions of organisms preserved in rock.

• Geodesy is the science of accurately measuring and understanding three fundamental properties of the Earth: its geometric shape, its orientation in space, and its gravity field— as well as the changes of these properties with time.

Q85. Answer: (a) Basketball Federation of India

The correct answer is option 1) i.e. Basketball Federation of India.

• K. Govindaraj was unanimously re-elected as president of the Basketball Federation of India (BFI) at its annual general body meeting here on Sunday.

• Chander Mukhi Sharma was re-elected secretary-general as the BFI promised a bunch of new ideas and tournaments.
• Mrs.Praveen Mahajan is the President of the All India Tennis Association.
• Dushyant Chautala is the President of Table Tennis Federation of India.
• Kiren Rijiju is the Minister of Youth Affairs and Sports.

Q86. Answer: (c) Kerala

The correct answer is option 3) i.e. Kerala.
• Vembanad lake located at Kottayam district of Kerala is the longest lake in India.
• Vembanad Lake is having 83.72km length and 14.48km width.
• In the Vembanad Lake, there is a small beautiful island called Pathiramanal or the Midnight sands.

Q87. Answer: (a) Registry

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

Key Points

• The registry or Windows registry is a database of information, settings, options, and other values for software and hardware installed on all versions of Microsoft Windows operating systems.
• For example, when a program is installed, a new subkey containing settings like a program's location, its version, and how to start the program, are all added to the Windows registry.

Additional Information

• Cookies are small files that are stored on a user's computer.
• They are designed to hold a modest amount of data specific to a particular client and website and can be accessed either by the web server or the client's computer.
• Cache stores data for temporary use.
• Cache memory is very small in size as compared to memory.
• Cache memory has a separate bus for data transfer

Q88. Answer: (a) 1779

The correct answer is option 1) i.e. 1779.
• Convention of Wadgaon took place on January 13, 1779, compact concluded after the First Maratha War in India (1775–82), marking the end of British efforts to intervene in Maratha affairs by making Raghunath Rao Peshwa.
• The British were defeated at Wadgaon, but they continued to fight the Marathas until the conclusion of the Treaty of Salbai (May 1782).
• The sole British gain was the island of Salsette adjacent to now Mumbai.

Q89. Answer: (c) Oligopoly

The correct answer is option 3) i.e. Oligopoly.
• Oligopoly is a market structure with a small number of firms, none of which can keep the others from having a significant influence.
• A monopoly is one firm, the duopoly is two firms and oligopoly is two or more firms.
• There is no precise upper limit to the number of firms in an oligopoly, but the number must be low enough that the actions of one firm significantly influence the others.

Q90. Answer: (b) USA

The correct answer is option 2) i.e. USA.
• The USA introduced a clause as per which if one is applying for a visa to that country, one needs to furnish a social media track record of the past five years.
• US visa application henceforth could get a lot more serious and can affect close to 15 million people travelling annually.
• It is also being said that in the near future, applicants would have to furnish detailed information on their travel history.
• This rule is applied to all applicants, except for those who are on official or diplomatic visas.

Q91. Answer: (a) Anita Bhatia

The correct answer is option 1) i.e. Anita Bhatia.
• United Nations Secretary-General António Guterres announced on 30 May 2019 the appointment of Anita Bhatia of India as Deputy Executive Director of the United Nations Entity for Gender Equality and the Empowerment of Women (UN Women).
• She was also appointed as the Assistant Secretary-General for Resource Management, Sustainability and Partnerships.
• She served for several years as Director of Global Partnerships for the International Finance Corporation (IFC), the World Bank

Group's private sector arm.

• Ms. Bhatia holds a Bachelor of Arts in History from Calcutta University, a Master of Arts in Political Science from Yale University and a Juris Doctor in Law from Georgetown University.

Q92. Answer: (a) Business Continuity Plan

The correct answer is option 1) i.e. Business Continuity Plan.

• Within IT Services, Business Continuity Planning includes four key elements: High Availability, Disaster Tolerant solutions, Disaster Protection and Recovery, and Security solutions.

• High Availability solutions help us develop and maintain reliable and flexible IT environments.

• Disaster Tolerant solutions help protect IT operations and data by delivering data replication, failover, and storage capabilities between geographically dispersed sites.

• Disaster Protection and Recovery solutions provide an integrated approach to cost-effectively protect data and recover from a service interruption.

• Security solutions help protect data and applications while reducing the amount of system downtime caused by malicious attacks, viruses or other security breaches.

Q93. Answer: (d) Arnab Goswami

The correct answer is option 4) i.e. Arnab Goswami.

• Arnab Goswami is the Managing Director, Editor-in-Chief, co-founder of Republic TV and most-watched journalist in India.

• Goswami was the editor-in-chief and a news anchor of the Indian news channel Times Now and ET Now, from 2006 to 2016.

• On Times Now, he anchored The Newshour, a live debate. He also hosted a special television program Frankly Speaking with Arnab.

Q94. Answer: (a) Cycling

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

• A Velodrome is a track for bicycle racing, usually with curved sides that go up steeply and the stadium is covered with a roof.

• Strip or Piste - Fencing bout takes place on it about 14 meters long and 2 meters wide.

• Ring - A place where Boxing or Wrestling takes place.

Q95. Answer: (c) Ashis Ray

The correct answer is option 3) i.e. Ashis Ray.

• Cricket World Cup: The Indian Challenge is the most comprehensive offering on the subject as eminently readable as an essential reference.

• It covers all 10 previous World Cups in detail from an Indian perspective, highlighting the 1983 and 2011 competitions, which India won.

• Ashis Ray's One-Day Cricket: The Indian Challenge, published in 2007, became a bestseller in India.

Q96. Answer: (d) Eye

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

• The rods contain a purplish-red protein called the rhodopsin or visual purple, which contains a derivative of Vitamin A.

• There are two types of photoreceptor cells, namely, rods and cones. These cells contain the light-sensitive proteins called the photopigments.

• The daylight (photopic) vision and colour vision are functions of cones and the twilight (scotopic) vision is the function of the rods.

• In the human eye, there are three types of cones which possess their own characteristic photopigments that

respond to red, green and blue lights.

• The sensations of different colours are produced by various combinations of these cones and their photopigments. When these cones are stimulated equally, a sensation of white light is produced.

Q97. Answer: (c) Karnataka

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

• Para Olympic Silver Medal winner in High Jump, Girish Gowda has been appointed as Lok Sabha Election Ambassador for the second time for Karnataka.

• During the 2018 State Assembly elections, he had created awareness among the Physically abled about the need to exercise their franchise.

• Hence he was appointed as the Election ambassador in Karnataka for the second time.

• Karnataka Chief Electoral Officer - Sanjiv Kumar.

Q98. Answer: (b) Carl Benda

• The correct answer is option 2) i.e. Carl Benda.

• Respiratory enzymes generate energy in the cells, so Mitochondria is called the Powerhouse of the cell.

• The shape of mitochondria is elliptical and it is a semi-autonomous organelle cell surrounded by two membranes.

Persons	Inventions
Carl Benda	Mitochondria
J.E Salk	Polio vaccines
Charles Laveran	Parasitic protozoans
Antonie van Leeuwenhook	Micro organisam

Q99. Answer: (d) 17^(th)

The correct answer is option 4) i.e. 17^(th)

• As many as seventeen General Elections to the Lok Sabha have been held till date.

• The seventeenth General Elections were held from 11 April to 19 May 2019.

• The Bharatiya Janata Party having 303 Members is the largest party in the Seventeenth Lok Sabha followed by the Indian National Congress having 52 Members.

• There are 541 MPs at present in the 17^(th) Lok Sabha.

• Shri Om Birla is the Speaker of the Lok Sabha.

Q100. Answer: (c) Pratibha Patil

The correct answer is option 3) Pratibha Patil.

• Pratibha Patil was conferred "Orden Mexicana del Aguila Azteca" or "Order of the Aztec Eagle", Mexico's highest civilian honour for foreigners.

• The award was presented by Mexico's Ambassador to India, Melba Pria, at a special ceremony held in the MCCIA Bhavan, Pune.

• This highest distinction is given by the Mexican government since 1933 to foreigners for their prominent services to Mexico and to humanity.

• Some of the other persons who have have been given this award are Nelson Mandela, Sarvepalli Radhakrishnan and 13 others.

• Pratibha Patil is the first woman to receive this "Order of the Aztec Eagle" award.

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