SSC CHSL Previous Paper 3 (Held On: 5 March 2018 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2018 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) percoletion
(b) parcolation
(c) percolation
(d) parcoletion

Q2. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

Leadership and

A - team-building skills deepened

B - for relationships

C - a sense of value

(a) ACB
(b) ABC
(c) CBA
(d) CAB

Q3. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

My daughter (comes running) as fast as her little feet can take her while her eyes sparkle vivaciously.

(a) comes run
(b) come running
(c) came run
(d) no improvement

Q4. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

As he tried harder, his steps slowed, his senses (was activated).

(a) is activated
(b) were activated
(c) were activate
(d) no improvement

Q5. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Capable of being imagined or grasped mentally

(a) Dazzling
(b) Conceivable
(c) Stunning

(d) Spectacular

Q6. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Beyond or above the range of normal or physical human experience

(a) Mundane
(b) Transcendent
(c) Ribald
(d) Coarse

Q7. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Head over heels

(a) To do things exactly opposite of what is expected.
(b) Madly in love.
(c) To do stupid things
(d) To unknowingly dive into an unpleasant situation.

Q8. Select the meaning of the given phrase/idiom from the given options.

At large

(a) A very big opportunity.
(b) A criminal escaped or not yet captured.
(c) To have a big heart
(d) A big appetite.

Directions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

One should always keep in mind that psychology is essentially a laboratory science, and _____ a text-book subject. The laboratory material is to be____ourselves. While the text should be thoroughly mastered, its statements should always be verified____ reference to one's own experience, and observation of others. Prospective teachers should constantly correlate the lessons of the book____the observation of children at work in the school. The problems suggested for_____and introspection will, if mastered, do much to render practical help to find the truths of psychology.

Q9. suggested for _____ and introspection will

(a) observe
(b) observes
(c) observed
(d) observation

Q10. lessons of the book _____ the observation of children

(a) with
(b) until
(c) from
(d) upon

Q11. always be verified _____ reference to one's own.

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

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Q12. material is to be _____ in ourselves

(a) find
(b) finding
(c) found
(d) finds

Q13. science, and _____ a text-book subject

(a) nor
(b) neither
(c) not
(d) alone

Q14. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Beizarre
(b) Bizaarre
(c) Bizarre
(d) Bigarre

Q15. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/ Direct Speech.

Ram said, "I have cleared the clutter."

(a) Ram told that he cleared the clutter.
(b) Ram says that he cleared the clutter.
(c) Ram said that he had cleared the clutter.
(d) The clutter was cleared by Ram

Q16. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

Who did this?

(a) This was done by who?
(b) By who this was done?
(c) By whom this was done?
(d) By whom was this done?

Q17. Rearrange the parts of the sentence in the correct order.

Gender inequality has an

P : it reduces economic growth

Q : development goals as

R : adverse impact on

(a) RPQ
(b) RQP
(c) PRQ
(d) QPR

Q18. In the following question, out of the given four alternatives, select the one which is similar in meaning of the given word.

Banter

(a) Angry
(b) Whisper
(c) Fun
(d) Strict

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Q19. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Forgo

(a) Forfeit
(b) Neglect
(c) Conquer
(d) Pass

Q20. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Chafe

(a) Chain
(b) Safe
(c) Irritate
(d) Joy

Q21. Select the correct alternative out of the four which best expresses the meaning of the given word and indicate it by selecting the appropriate option.

Felicity

(a) Bliss
(b) Misery
(c) Grief
(d) Trouble

Q22. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Being linked with nature brings joy and peace as it is the _____ of the laws of Nature

(a) Dissent
(b) Refusal
(c) Acknowledgement
(d) Sustenance

Q23. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Meera cannot _____ the exam's results.

(a) Depict
(b) Await
(c) Envision
(d) Observe

Q24. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Internet Service Providers (ISPs) should provide us (1)/ with open networks and should not block or discriminate for (2)/ any application or content that rides over those networks. (3)/ No error (4)

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

Q25. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

She picked (1)/ on the (2)/ trail soon after. (3)/ No error (4)

(a) 1
(b) 2

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(c) 3
(d) 4

GENERAL INTELLIGENCE

Q26. In the following question, select the related word pair from the given alternatives.

Pascal : Pressure ? ? : ?

(a) Hectare : Volume
(b) Speed : Temperature
(c) Joule : Work
(d) Time : Seconds

Q27. In the following question, select the related number form the given alternatives.

563 : 635 ? 894 : ?

(a) 849
(b) 489
(c) 498
(d) 948

Q28. In the following question, select the related letter pair from the given alternatives.

MOK : KLG ? ? : ?

(a) FIM : DFI
(b) TMA : UNB
(c) KCN : JBM
(d) FSA : IVD

Q29. In the following question, select the odd word pair from the given alternatives.

(a) Square - Four
(b) Pentagon - Five
(c) Rectangle - Three
(d) Triangle - Three

Q30. In the following question, four number pairs are given. The number on left side of (-) is related to the number of the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) 7 - 49
(b) 2 - 4
(c) 5 - 25
(d) 3 - 39

Q31. In the following question, select the odd letter/letters from the given alternatives.

(a) RTV
(b) HJL
(c) KMP
(d) BDF

Q32. Arrange the given words in the sequence in which they occur in the dictionary.

1. Soften
2. Sterilize
3. Stick
4. Sterile
5. Status

(a) 15423
(b) 25134

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(c) 54213
(d) 32154

Q33. In the following question, select the missing number from the given series.

23, 28, 34, 41, 49, ?

(a) 59
(b) 57
(c) 58
(d) 55

Q34. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

GJT, IMR, KPP, MSN, ?

(a) PUL
(b) OVL
(c) OUK
(d) PVM

Q35. In a row of buses, Panjab is at 19th position from the right end. Raftaar is 23 places to the left of Panjab and also placed at the exact center of the row. How many buses are there between Raftaar bus and bus standing at the left end?

(a) 44
(b) 42
(c) 40
(d) 43

Q36. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Government

(a) Got
(b) Over
(c) Need
(d) Norm

Q37. In a certain code language, “FRIED” is written as “EQHDC”. How is “RUSTY” written in that code language?

(a) PAXYZ
(b) QTRSX
(c) PARSX
(d) NQVSZ

Q38. In a certain code language, '-' represents 'x', '÷' represents '+', '+' represents '÷' and 'x' represents '-'. Find out the answer to the following question.

19 ÷ 2 - 35 + 10 x 6 = ?

(a) 20
(b) 14
(c) 32
(d) 27

Q39. The following equation is incorrect. Which two signs should be interchanged to correct the equation?

15 x 18 - 6 ÷ 20 + 4 = 29

(a) • and x
(b) ÷ and -
(c) • and ÷
(d) • and +

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Q40. If 40@8 = -5, 30@3 = -10 and 20@5 = -4, then find the value of 60@3 = ?

(a) -45
(b) -20
(c) -5
(d) -36

Q41. Which of the following terms follows the trend of the given list?

abABABAB, ABabABAB, ABABabAB, ABABABab, abABABAB, _____.

(a) ABABAbaB
(b) abABABAB
(c) ABabABAA
(d) ABabABAB

Q42. Two village women are returning home starting from the same point. The first woman walks 1 km South, then turns to her right and walks 6 km to reach her house. In the meanwhile the second woman walks 5 km West, then she turns North and walks 4 km, then she turns to her left and walks 1 km to reach her house. Where is the second woman's house with respect to the first woman's house?

(a) 5 km North
(b) 3 km North
(c) 5 km South
(d) 3 km South

Q43. In the question, two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I : No books are notebooks.

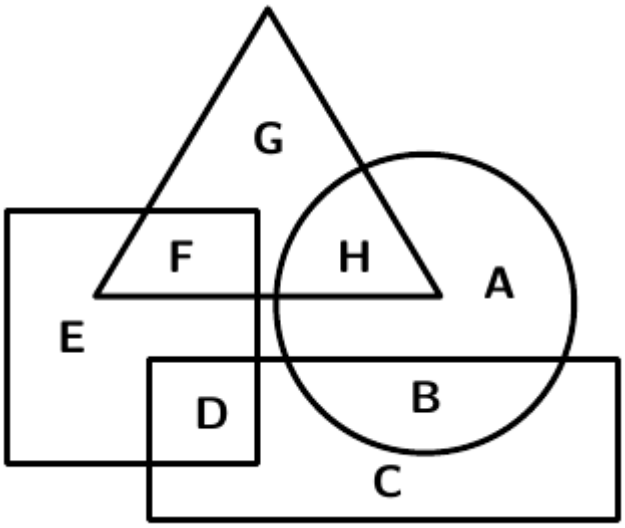
Statement II : All diaries are books.

Conclusion I : No notebooks are diaries.

Conclusion II : All diaries are notebooks.

(a) Only conclusion I follows.
(b) Only conclusion II follows.
(c) Both conclusions I and II follow.
(d) Neither conclusion I nor conclusion II follows.

Q44. In the following figure, rectangle represents Film critics, circle represents Bakers, triangle represents Divers and square represents Football players. Which set of letters represents Football players who are not Divers?



(a) ED
(b) FD
(c) GH

(d) DC

Q45. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

HPA, FMZ, DJY, BGX, ?

(a) ZDW
(b) ZEV
(c) YDW
(d) YEV

Q46. In the following question, select the missing number from the given series.

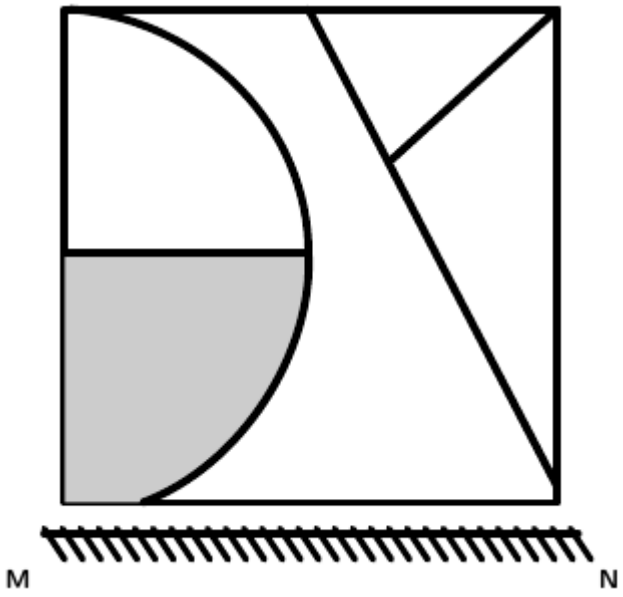
672, 666, 660, 654, ?

(a) 648
(b) 646
(c) 650
(d) 640

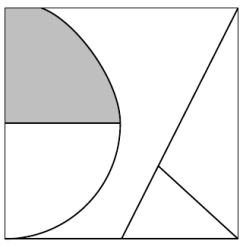
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (61, 64, 71)
(b) (57, 60, 69)
(c) (75, 78, 85)
(d) (89, 92, 99)

Q48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

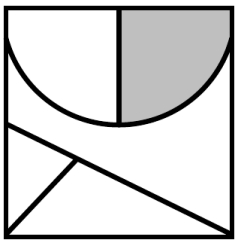


(a)

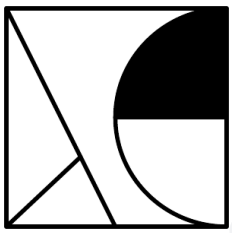


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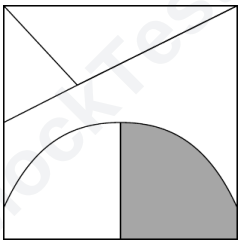
(b)



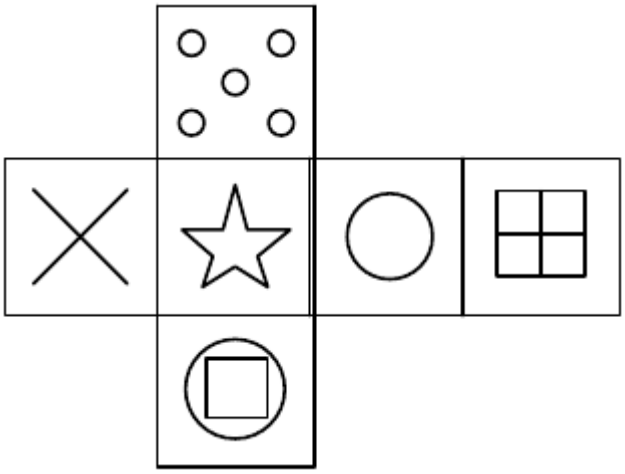
(c)



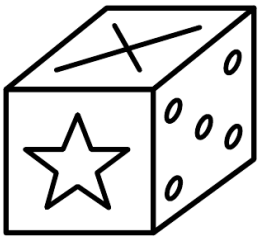
(d)



Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?

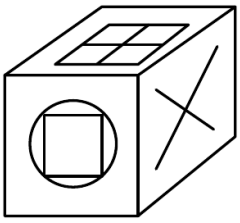


(a)

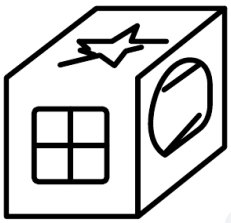


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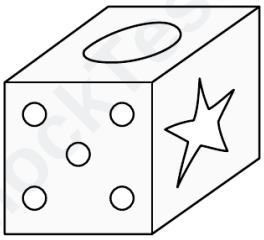
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given the matrices. The column and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'F' can be represented by 24, 41 etc. and 'P' can be represented by 58, 87 etc. similarly, you have to identify the set for the word 'UNIT'.

Matrix I					
	0	1	2	3	4
0	C	K	E	G	B
1	L	A	H	I	H
2	G	C	A	D	F
3	C	K	G	I	K
4	B	F	J	J	H

Matrix II					
	5	6	7	8	9
5	S	X	T	P	W
6	T	P	N	T	P
7	Q	Z	P	X	O
8	U	Q	P	W	N
9	P	N	W	R	X

(a) 22, 78, 34, 69
(b) 22, 67, 34, 59
(c) 14, 69, 24, 75

(d) 85, 67, 13, 57

QUANTITATIVE APTITUDE

Q51. What is the least number that can be multiplied to 69120 to make it a perfect cube?

(a) 10
(b) 50
(c) 25
(d) 5

Q52. Mr. Ankit is on tour to Siachin and he has Rs. 360 for his expenditure. If he exceeds his tour by 4 days, he must trim down his daily expenditure by Rs. 3. For how many days is Mr. Ankit is on tour?

(a) 20
(b) 22
(c) 24
(d) 26

Q53. Determine the value of $(1/r + 1/s)$ when $r^3 + s^3 = 0$ and $r + s = 6$.

(a) 0
(b) 0.5
(c) 1
(d) 6

Q54. What is the y – intercept of the linear equation $59x + 14y – 112 = 0$?

(a) 8
(b) 14
(c) 28
(d) 59

Q55. The circumferences of two circles are touching externally. The distance between their centres is 12 cm. The radius of one circle is 7 cm. Find the diameter (in cm) of the other circle.

(a) 12
(b) 10
(c) 8
(d) 5

Q56. The length of the radius of the circumcircle of a triangle having sides 9 cm, 12 cm and 15 cm is

(a) 6 cm
(b) 7.5 cm
(c) 4.5 cm
(d) 6.5 cm

Q57. If X = 600 and Y = 800, then X is how much percent less than Y?

(a) 33.33
(b) 25
(c) 75
(d) 35

Q58. The ratio of three numbers is 2 : 3 : 5. If the sum of the three numbers is 275, then what is the largest among the three numbers?

(a) 142
(b) 82.5
(c) 137.5
(d) 152

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Q59. S, T and U started a business and their capitals are in the ratio of 3 : 4 : 6. At the end they receive the profit in the ratio of 1 : 2 : 3. What will be the respective ratio of time period for which they contributed their capitals?

(a) 3 : 2 : 2
(b) 2 : 3 : 3
(c) 2 : 2 : 3
(d) 4 : 5 : 3

Q60. What is the average of first 7 multiples of 7?

(a) 7
(b) 14
(c) 21
(d) 28

Q61. A sum of Rs 8000 is divided into two parts. The simple interest on first part at the rate of 21% per annum is equal to the simple interest on second part at the rate of 35% per annum. What is the interest (in Rs) of each part?

(a) 1050
(b) 840
(c) 1400
(d) 1220

Q62. Selling price of a glass is Rs. 1965 and loss percentage is 25%. If selling price is Rs. 3013, then what will be the profit percentage?

(a) 13
(b) 10.4
(c) 15
(d) 20

Q63. Ramesh marks his article at Rs. 6000 and after allowing a discount of 20%, he still earns 60% profit. What is the cost price (in Rs.) of the article?

(a) 3600
(b) 4800
(c) 3000
(d) 4200

Q64. What is the value of √729 + √72.9 + √7.29= ?

(a) 40.5
(b) 45.6
(c) 33.5
(d) 38.23

Q65. Rohan and Mohit together can build a wall in 8 days. Mohit and Vikas build the same wall in 10 days and Vikas and Rohan can build the same wall in 12 days. In how many days can all the three complete the same wall while working together?

(a) 240/37
(b) 120/37
(c) 150/37
(d) 180/37

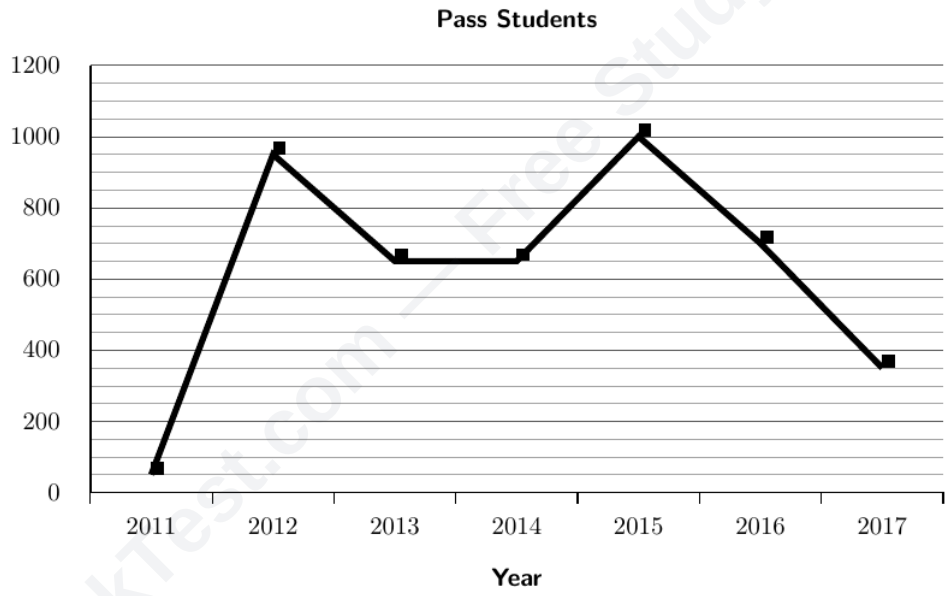
Q66. A boy starts from his house and walks at a speed of 5 km/hr and reaches his school 3 minutes late. Next day he starts at the same time and increases his speed by 4 km/hr and reaches 3 minutes early. What is the distance (in km) between the school and his house?

(a) 1
(b) 1.25
(c) 1.125
(d) 1.5

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Directions

Direction: The line graph shows the number of students of certain university who passed in the given year in their final exams. Study the diagram and answer the following questions.



Q67. In which year were number of students who passed were more than those who passed in the previous year?

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

Q68. What was the difference in the number of students who passed between the years 2013 and 2016?

(a) 1000
(b) 500
(c) 1500
(d) 2000

Q69. Number of students who passed in 2016 were greater than that in 2017 by _____.

(a) 150%
(b) 100%
(c) 50%
(d) 200%

Q70. If students who pass are given a certificate, what is the number of certificates awarded in the last three years?

(a) 19500
(b) 20000
(c) 20500
(d) 19000

Q71. The area and the length of one of the diagonals of a rhombus are 84 cm^2 and 7 cm respectively. Find the length of its other diagonal (in cm).

(a) 12
(b) 24
(c) 48
(d) 36

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Q72. Find the perimeter (in cm) of a semicircle of radius 28 cm.

(a) 288
(b) 144
(c) 121
(d) 242

Q73. Find the curved surface area (in cm2) of a hemisphere of diameter 28 cm.

(a) 1152
(b) 1024
(c) 956
(d) 1232

Q74. What is the value of (sin60° + 2/√3)?

(a) (2√3 + 1)/√3
(b) 7/2√3
(c) 3
(d) 2 + √3

Q75. ΔXYZ is right angled at Y. If cos X = 3/5, then what is the value of cosec Z?

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

GENERAL AWARENESS

Q76. Sudden decrease of birth rate would cause_____.

(a) Increase in per capita income
(b) Increase in investment
(c) Increase in savings
(d) Increase in loan requests

Q77. In the last one decade, which one among the following sectors has attracted the highest foreign direct investment inflows into India?

(a) Food processing
(b) Petro-chemical
(c) Chemicals other than fertilizers
(d) Telecommunications

Q78. Harshavardhan's Vallabhi conquest is found in which of the following inscriptions?

(a) Aihole Pillar Inscription
(b) Junagadh Inscription
(c) Navsari Copperplate Inscription
(d) Damodarpur copper plate Inscription

Q79. What was the northwestern border of the Mughal Empire during the reign of Akbar?

(a) Punjab
(b) Hindukush
(c) Kabul
(d) Sindh

Q80. What is called the minimum distance from the Sun in a planet in its orbit?

(a) Perihelion
(b) Aphelion
(c) Apogee

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(d) Perigee

Q81. Another name for Indira Point is _____.

(a) Parson point
(b) La-Hi-Ching
(c) Pygmalion point
(d) Both 1 and 3

Q82. What was the real name of Swami Vivekananda?

(a) Surendranath Bose
(b) Narendranath Dutt
(c) Vidyadhar Roy
(d) Shyamal Bose

Q83. Military exercise ‘Prabal Dostyk’, which was held in November 2017 was conducted between _____.

(a) India and Afghanistan
(b) India and Kazakhstan
(c) India and Uzbekistan
(d) India and Turkmenistan

Q84. Who among the following has been awarded the "Rajiv Gandhi Khel Ratna Award" for the year 2017?

(a) Jitu Rai
(b) Jasvir Singh
(c) Sardar Singh
(d) S.V. Sunil

Q85. Vedda is a tribe of which of the following countries?

(a) Maldives
(b) Myanmar
(c) Sri Lanka
(d) Bangladesh

Q86. Which of the following is natural fiber?

(a) Silk
(b) Rayon
(c) Nylon
(d) Polyester

Q87. Which of the following statement(s) is/are CORRECT?

(a) Oxides of non-metals are basic.
(b) Oxides of non-metals are acidic.
(c) Oxides of metals are acidic.
(d) All options are correct.

Q88. In India, which of the following body is Constitutional in nature?

(a) NITI Aayog
(b) National Human Rights Commission
(c) Central Vigilance Commission
(d) Finance Commission

Q89. Which part of the Indian Constitution deals with ‘The Municipalities’?

(a) Part VII
(b) Part VIII
(c) Part XI
(d) Part IX A

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Q90. Organisms use bio-catalyst to break down complex substances into simpler substances. These bio catalysts are called _____.

(a) enzymes
(b) hormones
(c) vitamins
(d) No option is correct.

Q91. The first step of process of nutrition is the breakdown of glucose into three-carbon molecule called _____.

(a) Pyruvate
(b) Propanol
(c) Propane
(d) methanol

Q92. “Saubhagya” scheme was launched to provide which of the following?

(a) Water connections
(b) LPG connections
(c) Electricity connections
(d) Broadband connections

Q93. Which of the following became first indigenously developed vaccine from India to be pre-qualified by World Health Organization?

(a) Rotavac
(b) Hemophile
(c) Pentavac
(d) Pneumococca

Q94. In July 2017, RBI capped how much Customer liability if they report unauthorized transactions within seven working days?

(a) Rs 50,000
(b) Rs 25,000
(c) Rs 1,00,000
(d) Rs 75,000

Q95. On 10 April 2017, Lok Sabha passed the Motor Vehicles (Amendment) Bill, 2016. The Bill seeks to amend _____.

(a) Motor Vehicles Act, 1988
(b) Motor Vehicles Act, 1998
(c) Motor Vehicles Act, 2005
(d) Motor Vehicles Act, 2010

Q96. What is the effective resistance (in Ω) of two resistors 20 Ω and 30 Ω connected in parallel?

(a) 50
(b) 12
(c) 24
(d) 25

Q97. 1 km/hr equals _____ m/s.

(a) 5/18
(b) 18/5
(c) 5/16
(d) 16/5

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Q98. To keep warm, polar bears have a layer of _____ under their skin.

(a) Muscle
(b) Fat
(c) Cartilage
(d) Hair

Q99. Which of the statements given below is correct?

A) Maverick Vinales won the 2017 Qatar Motorcycle Grand Prix MotoGP.
B) In 2017, Zaheer Khan captained the IPL team Royal Challengers Bangalore.
C) In 2017, Gautam Gambhir captained the IPL team Kolkata Knight Riders.

(a) Only A
(b) Only B
(c) A and C
(d) A, B and C

Q100. In Microsoft Word, font, font style, size, font color etc. are options of _____.

(a) Character formatting
(b) Paragraph formatting
(c) Sentence formatting
(d) Font formatting

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) percolation

The correct answer is percolation.

Key Points

• Correct spelling is P-E-R-C-O-L-A-T-I-O-N.
• Percolation - the process of a liquid slowly passing through a filter.
• Ex. The percolation of rainwater through the soil.

Hence, the correct answer is 'percolation.'

Q2. Answer: (a) ACB

The correct answer is ACB.

Key Points

• 'A' is the first part as the subject 'team-building skills' (introduction of another subject) fits correctly after 'and.'
• 'C' follows 'A' as it states what deepened (a sense of value).
• 'B' completes the sentence by conveying 'a sense of value for what' (for relationships).

Correct sentence: 'Leadership and team-building skills deepened a sense of value for relationships.'

Q3. Answer: (d) no improvement

The correct answer is No improvement.

Key Points

• The sentence is structured in simple present tense thus the verbs 'comes running' fit here correctly.
• 'Come running' is an idiom that means 'to run to someone'.
• Ex. The dog came running when she called it.
• We need to change the main verb 'come' as per the sentence we use. In the simple present, we use 's' or 'es' to the root word.
• Hence, the use of 'comes running' is correct in the given sentence.
• The tense forms in the options are not correct and they are grammatically wrong.

Correct sentence: 'My daughter (comes running) as fast as her little feet can take her while her eyes sparkle vivaciously.'

Q4. Answer: (b) were activated

The correct answer is were activated.

Key Points

• In the given sentence from the verbs tried and slowed we can say the sentence is structured in the past tense.
• Therefore after 'his senses' we need to put in a past tense verb that is activated.
• 'Senses' is a plural noun we should use were instead of was.

Correct sentence: 'As he tried harder, his steps slowed, his senses were activated.'

Q5. Answer: (b) Conceivable

The correct answer is Conceivable.

Key Points

• Let's see the meanings of the given words:
• Dazzling - extremely impressive or attractive.
• Ex. The sunlight was dazzling
• Conceivable - That which can be perceived, imaginable, grasped mentally.
• Ex. His speech was conceivable
• Stunning - Extremely impressive or attractive.
• Ex. That car was looking stunning.
• Spectacular - Amazing
• Ex. What a spectacular view.
• Hence, the word 'conceivable' is the appropriate substitute for the sentence given.

Q6. Answer: (b) Transcendent

The solution is in Hindi. Read it online.

Q7. Answer: (b) Madly in love.

The correct answer is Madly in love.

Key Points

• The phrase 'head over heels' means 'madly in love.'
• Ex. I immediately fell head over heels for her.

Additional Information

• Other idioms related to heels.
• Cool Your Heels - Be kept waiting.
• Hot on the Heels - arriving or happening very close behind someone or something.
• Achilles' heel - An Achilles heel is a weakness in spite of overall strength, which can lead to downfall.

Q8. Answer: (b) A criminal escaped or not yet captured.

The correct answer is A criminal escaped or not yet captured.

Key Points

• The idiom 'At large' means to be free; not in custody, imprisoned, or otherwise confined, a criminal escaped or not yet captured.
• Ex. That notorious criminal was still at large

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• 'At large' can also be used to say generally.
• Ex. Society at large will benefit from this.

Q9. Answer: (d) observation

The correct answer is observation.

Key Points

• Parallel structure refers to the same word pattern within a sentence by repeating a chosen grammatical form. It emphasizes the same level of importance of multiple ideas or information given in the same sentence, usually connected by coordinating conjunctions.
• Ex*. He was speaking fluently and clearly.*
• In the given sentence 'introspection' is a noun, Hence, the noun 'observation' should be used in the given space.

Correct sentence: 'The problems suggested for observation and introspection will, if mastered, do much to render practical help to find the truths of psychology.'

Q10. Answer: (a) with

The correct answer is with.

Key Points

• Since the sentence talks about correlating that is 'linking and matching', the correct preposition here is 'with.'
• 'With' means 'in relation to' in the given context.
• Hence 'with' should be used in the given space.

Correct sentence: 'Prospective teachers should constantly correlate the lessons of the book with the observation of children at work in the school.'

Additional Information

• Until - up to (the point in time or the event mentioned)
• Ex. I will wait for you until someone comes.
• From - Indicating a point in space, separation, prevention, a cause, starting point, source.
• Ex. A paint made from a natural resin.
• Upon - the more formal term for on, especially in abstract senses.
• Ex. It was based upon a true story.

Q11. Answer: (c) by

The correct answer is by.

Key Points

• The correct preposition here is 'by' as something is verified 'by' a particular method.
• By - Identifying the agent performing an action. indicating the means of achieving something.
• Ex. He was hit by a car.
• Hence 'by' should be used in the given space.

Correct sentence: 'While the text should be thoroughly mastered, its statements should always be verified by reference to one's own experience, and observation of others.'

Additional Information

• To -
• Expressing motion in the direction of (a particular location).
• Ex. Down to the shops.
• Approaching or reaching (a particular condition).
• Ex. It turned out to be amazement to joy
• Identifying the person or thing affected by or receiving something.
• Ex. You were rude to him
• Identifying a particular relationship between one person and another.
• Ex. He is married to her.
• At - Indicating Location, time and state.
• Ex. I was at his house.
• For - Indicate the purpose, as being, because of.
• Ex. He was waiting for a good opportunity.

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Q12. Answer: (c) found

The correct answer is found.

Key Points

• The verb “To be” most frequently works in conjunction with another verb, Occasionally, though, the verb will stand by itself, alone, in a sentence.

• The construction to be + the past participle is a passive infinitive.

• An infinitive construction in which the agent (or performer of the action) either appears in a prepositional phrase following the verb or is not identified at all.

• The passive infinitive is made up of the marker to + be + a past participle (also known as the -en form):

• Ex. The case is to be decided by a judge.

• Hence 'Found' should be used in the given space.

Correct sentence: 'The laboratory material is to be found ourselves.'

Q13. Answer: (c) not

The correct answer is not.

Key Points

• The author is trying to say that psychology is not a text book subject but essentially a laboratory science, which means psychology should be used practically.

• Here we are supposed to say that psychology is not a text-book subject.

• Hence, 'not' should be used in the given space.

• 'Neither and nor' is used together while indicating two of the given options are not valid.

• Ex. He is neither gonna ask me nor gonna ask anyone.

Correct sentence: 'One should always keep in mind that psychology is essentially a laboratory science, and not a text-book subject.'

Q14. Answer: (c) Bizarre

The correct answer is Bizarre.

Key Points

• The spelling of the word is B-I-Z-A-R-R-E.

• Bizarre - Strange or unusual

• Ex. He wore a bizarre outfit.

Q15. Answer: (c) Ram said that he had cleared the clutter.

The correct answer is Ram said that he had cleared the clutter.

Key Points

• The given sentence is in the direct speech we need to convert it into Indirect speech.

• In the indirect speech the correct pronoun and the correct tense need to be used.

• The present perfect tense in direct speech becomes past perfect in indirect speech.

• The word 'said' does not need a change and option 3 is the correct answer.

Hence, the correct answer is 'Ram said that he had cleared the clutter.'

Q16. Answer: (d) By whom was this done?

The correct answer is By whom was this done?

Key Points

• In the passive voice, the structure should be: Object + verb + Subject

• Thus, 'whom' should be written before 'this'.

• The correct tense is simple past as 'did' has been used in the sentence.

Hence, the correct answer 'By whom was this done?'

Q17. Answer: (b) RQP

The correct answer is RQP.

Key Points

• The given sentence is talking about gender inequality and its effect on economic growth.

• R is the first part of the sentence as it states what 'gender equality' has.
• Q follows R as it states on what the impact lies.
• P completes the sentence, as it supports the previous statement about how development goals are affected because of the reduced economic growth.

Correct sentence: 'Gender inequality has an adverse impact on development goals as it reduces economic growth.'

Q18. Answer: (c) Fun

The correct answer is Fun.

Key Points

• The word 'banter' means 'the playful and friendly exchange of teasing remarks.'
• For e.g.- I missed my Dad a lot in the Philippines, especially our playful banter.
• Thus 'fun'- enjoyment, amusement, or light-hearted pleasure..
• Ex. We had great fun at the beach.

Hence, the correct answer is 'Fun'.

Additional Information

• Angry - Feeling or showing strong annoyance.
• Ex. He was angry with me
• Whisper - Speak very softly using one's breath rather than one's throat.
• Ex. She whispered in my ears.
• Strict - Demanding that rules concerning behaviour are obeyed and observed.
• Ex. The teacher was strict.

Q19. Answer: (c) Conquer

The correct answer is Conquer.

Key Points

• The word 'forgo' means sacrifice or let go.
• Ex. H*e wanted to forgo tea*
• Synonyms - Renounce, surrender, relinquish
• Antonyms - Keep, retain, hold on, conquer
• Conquer - Overcome and take control of (a place or people).
• Hence the opposite of 'forgo' is 'Conquer'.

Additional Information

• Forfeit- A fine or penalty for wrongdoing.
• Ex. the loser must pay a forfeit
• Neglect - Fail to care for properly.
• Ex. She neglected her health
• Pass - Move or cause to move, die.
• Ex. He passed through the mountains.

Q20. Answer: (c) Irritate

The correct answer is Irritate.

Key Points

• The word 'Chafe' means a state of annoyance.
• Ex. Into what an unprofitable chafe you have put yourself!
• Synonyms - Annoy, to feel impatient, irritate.

Hence, the correct answer is 'Irritate'.

Additional Information

• Chain - fasten or secure with a chain.
• Ex. He chained his bicycle with railing
• Safe - Protected from or not exposed to danger or risk; not likely to be harmed or lost.
• Ex. The baby is safe in my hands.
• Joy- A feeling of great pleasure and happiness.
• Ex. The joy of achieving something is always amazing.

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Q21. Answer: (a) Bliss

The correct answer is Bliss.

Key Points

• The word 'felicity' means intense happiness.

• Synonyms - Bliss, happy, joyous

• Other options are synonyms of sadness.

Hence, the correct answer is 'Bliss'.

Additional Information

• Misery - A state or feeling of great physical or mental distress or discomfort.

• Ex. He was going through such misery.

• Grief - Intense sorrow, sadness.

• Ex. She was grieving because of the tragedy

• Trouble - Disturbance

• Ex. The trouble of getting into such a situation.

Q22. Answer: (c) Acknowledgement

The correct answer is Acknowledgement.

Key Points

• The word acknowledgement means acceptance of the truth or existence of something.

• The given sentence talks about the qualities of nature that bring joy and peace.

• Here we are trying to accept the truth of laws of nature.

• Hence, the word acknowledgement best suits in the given space.

Hence, the correct answer is 'Acknowledgement.'

Additional Information

• Dissent - Disagreement

• Ex. Her dissent to the fact was acceptable.

• Refusal - Denial

• Ex. She refused to go to the hall.

• Sustenance - Means maintaining of someone or something in life or existence.

• Ex. Anil is getting his sustenance allowance.

Q23. Answer: (b) Await

The correct answer is Await.

Key Points

• The word 'Await' means wait for (an event).

• Ex. we await the results with impatience

• In the given sentence Meera is waiting for the exam results.

• Hence, 'Await' should be used in the given space.

Correct sentence: 'Meera cannot await the exam's results.'

Additional Information

• Depict - Portray; describe

• Ex. The depiction of her novel.

• Envision - Imagine as a future possibility; visualize.

• Ex. She envisioned the admiring glances of her friends.

• Observe - Watch

• Ex. She was observing her baby.

Q24. Answer: (b) 2

The correct answer is 2.

Key Points

• The error lies in part 2 of the sentence as the preposition 'for' is incorrect here.

• 'for' should be replaced with 'between.'

• One discriminates 'between' things which means 'to distinguish and be biased towards a particular thing.'

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Correct sentence: 'Internet Service Providers (ISPs) should provide us with open networks and should not block or discriminate between any application or content that rides over those networks.'

Q25. Answer: (b) 2

The correct answer is Option 2.

Key Points

• The phrase "She picked on" is incorrect in the context of this sentence.

• The correct phrase should be "She picked up" to indicate that she resumed or continued the trail.

• The error is located in part 2 of the sentence.

• The remaining parts of the sentence are grammatically correct and do not require changes.

Therefore, the correct answer is Option 2.

Correct Sentence: "She picked up the trail soon after."

Q26. Answer: (c) Joule : Work

The logic here is as follows:

'Pascal' is the S.I. unit of 'Pressure'.

Hectare : Volume → 'Liter' is the S.I. unit of 'Volume'

Speed : Temperature → 'Celsius' is the S.I. unit of 'Temperature'

Joule : Work → 'Joule' is the S.I. unit of 'Work'.

Time : Seconds →

So, the 'Joule' is the S.I. unit of 'Work'.

Hence, is the correct answer is "Joule : Work".

Q27. Answer: (d) 948

The left hand side follows the following pattern : 563 : 635

(Diagram of number shifting)

Hence, the correct answer is "948".

Q28. Answer: (a) FIM : DFI

The pattern followed here is;

M - 2 = K

O - 3 = L

K - 4 = G

Similarly, checking all the options:

1) FIM : DFI → F - 2 = D, I - 3 = F, M - 4 = I

2) TMA : UNB → T - 2 = R, M - 3 = J, A - 4 = W

3) KCN : JBM → K - 2 = I, C - 3 = Z, N - 4 = J

4) FSA : IVD → F - 2 = D, S - 3 = P, A - 4 = W

Hence, correct answer is "FIM : DFI".

Q29. Answer: (c) Rectangle - Three

The logic here as follows:

All options except 'Rectangle - Three' shows the correct number of sides of the given polygon figures.

1) A Square has four sides.

2) A Pentagon has five sides

3) A Rectangle has four sides.

4) A Triangle has three sides.

Hence, the correct answer is "Rectangle - Three".

Q30. Answer: (d) 3 - 39

Here logic is as follows:

All the options except '3 - 39' are the pairs of numbers and their respective squares.

1) $7^2 = 49$

2) $2^2 = 4$

3) $5^2 = 25$

4) $3^2 = 9$

Hence, the correct answer is "3 - 39".

Q31. Answer: (c) KMP

The logic here is as follows :

Alphabet + 2 = Next letter

RTV → R + 2 = T; T + 2 = V

HJL → H + 2 = J; J + 2 = L

KMP → K + 2 = M; M + 3 = P

BDF → B + 2 = D; D + 2 = F

Hence, the correct answer is "KMP".

Q32. Answer: (a) 15423

As per the dictionary order :

1. Soften

5. Status

4. Sterile

2. Sterilize

3. Stick

Hence, the correct dictionary order is "15423".

Q33. Answer: (c) 58

The pattern followed here is:

23 + 5 = 28;

28 + 6 = 34;

34 + 7 = 41;

41 + 8 = 49;

49 + 9 = 58.

Hence, the correct answer is "58".

Q34. Answer: (b) OVL

The pattern followed here is:-

Hence, the correct answer is "OVL".

Q35. Answer: (c) 40

The following arrangement is as follows:

Position of Panjab from the right end = 19

Position of Raftaar from the right end = (19 + 23) = 42

Raftaar is at the exact center of the row, which means there are 41 buses to the left of Raftaar bus and 41 buses to the right of Raftaar bus.

r

Therefore, buses ae between Raftaar bus and bus standing at the left end = (41 - 1) = 40.

Hence, the correct answer is "40".

Q36. Answer: (c) Need

Given word → Government

1) Got → Government (so, word 'Got' can be formed)

2) Over → Government (so, word 'Over' can be formed)

3) Need → as letter 'D' is not present in the word 'Government' so, word 'Need' cannot be formed.

4) Norm → Government (so, word 'NORM' can be formed)

Hence, the correct answer is "Need".

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Q37. Answer: (b) QTRSX

The logic followed here is :

F - 1 = E

R - 1 = Q

I - 1 = H

E - 1 = D

D - 1 = C

Similarly,

R - 1 = Q

U - 1 = T

S - 1 = R

T - 1 = S

Y - 1 = X

Hence, the correct answer is "QTRSX".

Q38. Answer: (a) 20

Given → 19 ÷ 2 - 35 + 10 × 6 = ?

Symbol	•	÷	•	×
Meaning	×	•	÷	•

After replacing the symbols with their meaning, we get:-

New equation → 19 + 2 × 35 ÷ 10 - 6

Now, after applying BODMAS Rule, we get:-

19 + 2 × 35 ÷ 10 - 6

19 + 2 × 3.5 - 6

19 + 7 - 6

26 - 6 = 20

Hence, the correct answer is "20".

Q39. Answer: (b) ÷ and -

Given equation:-

15 × 18 - 6 ÷ 20 + 4 = 29

Checking options one by one by interchanging signs

1) + and x

After interchanging, new equation → 15 × 18 + 6 ÷ 20 - 4 = 29

By solving the equation using BODMAS rule, we get:-

15 × 18 + 6 ÷ 20 - 4 = 29

15 × 18 + 0.3 - 4 = 29

270 + 0.3 - 4 = 29

273.3 - 4 = 29

269.3 ≠ 29

Left hand side is not equal to right hand side.

2) ÷ and -

After interchanging, new equation → 15 × 18 ÷ 6 - 20 + 4 = 29

By solving the equation using BODMAS rule, we get:-

15 × 18 ÷ 6 - 20 + 4 = 29

15 × 3 - 20 + 4 = 29

45 + 4 - 20 = 29

49 - 20 = 29

29 = 29

Left hand side is equal to right hand side.

3) + and ÷

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After interchanging, new equation → 15 × 18 - 6 + 20 ÷ 4 = 29

By solving the equation using BODMAS rule, we get:-

15 × 18 - 6 + 20 ÷ 4 = 29

15 × 18 - 6 + 5 = 29

270 + 5 - 6 = 29

275 - 6 = 29

269 ≠ 29

Left hand side is not equal to right hand side

4) - and +

After interchanging, new equation → 15 × 18 + 6 ÷ 20 - 4 = 29

By solving the equation using BODMAS rule, we get:-

15 × 18 + 6 ÷ 20 - 4 = 29

15 × 18 + 0.3 - 4 = 29

270 + 0.3 - 4 = 29

270.3 - 4 = 29

266.3 ≠ 29

Left hand side is not equal to right hand side.

Hence, the correct answer is "÷ and -".

Q40. Answer: (b) -20

The logic/rule followed here is :

40@8 = -5 → -(40 ÷ 8) = -5

30@3 = -10 → -(30 ÷ 3) = -10

20@5 = -4 → -(20 ÷ 5) = -4

Similarly,

60@3 → -(60 ÷ 3) = -20

Hence, the correct answer is "-20".

Q41. Answer: (d) ABabABAB

The pattern followed here is:-

A pair of lower case letters is changed to upper case letters and a pair of upper case letters is changed to lower case letters while moving from left end to right end.

Table showing the pattern:-

abABABAB	**a**	**b**	**A**	**B**	**A**	**B**	**A**	**B**
ABabABAB	A	B	a	b	A	B	A	B
ABABabAB	A	B	A	B	a	b	A	B
ABABABab	A	B	A	B	A	B	a	b
abABABAB	a	b	A	B	A	B	A	B
ABabABAB	A	B	a	b	A	B	A	B

Hence, the correct answer is "ABabABAB".

Alternate Method ab / AB / AB / AB

AB / ab / AB / AB

AB / AB / ab / AB

AB / AB / AB / ab

ab / AB / AB / AB

AB / ab / AB / AB

Hence, the correct answer is "ABabABAB".

Q42. Answer: (a) 5 km North

Hence, the correct answer is ‘5 km North’.

Q43. Answer: (a) Only conclusion I follows.

Conclusion I: No notebooks are diaries → Follows (as no books are notebooks and all diaries are books.)

Conclusion II: All diaries are notebooks → Doesn't Follows (as no books are notebooks and all diaries are books.)

Hence, the correct answer is "only conclusion I follows".

Q44. Answer: (a) ED

In the figure above:

Rectangle represents Film critics,

Circle represents Bakers,

Triangle represents Divers,

Square represents Football players.

So, the set of letters represents Football players who are not Divers is ED.

Hence, the correct answer is "ED".

Q45. Answer: (a) ZDW

The pattern/logic followed here is :

H - 2 = F; F - 2 = D; D - 2 = B; B - 2 = Z

P - 3 = M; M - 3 = J; J - 3 = G; G - 3 = D

A - 1 = Z; Z - 1 = Y; Y - 1 = X; X - 1 = W

Hence, the correct answer is "ZDW".

Q46. Answer: (a) 648

The pattern/logic followed here is :

Given series : 672, 666, 660, 654, ?

672 - 6 = 666;

666 - 6 = 660;

660 - 6 = 654;

654 - 6 = 648.

Hence, the correct answer is "648".

Q47. Answer: (b) (57, 60, 69)

The pattern followed here is :

1) In (61, 64, 71) → 61 + 3 = 64; 64 + 7 = 71

2) In (57, 60, 69) → 57 + 3 = 60; 60 + 9 = 69

3) In (75, 78, 85) → 75 + 3 = 78; 78 + 7 = 85

4) In (89, 92, 99) → 89 + 3 = 92; 92 + 7 = 99

Hence, the correct answer is "(57, 60, 69)".

Q48. Answer: (a) [figure]

The mirror image of the given image is,

Hence, correct answer is "Option 1".

Q49. Answer: (c) [figure]

Hence, the correct answer is ‘image 3’.

Q50. Answer: (d) 85, 67, 13, 57

Checking by solving the options:

1) 22, 78, 34, 69 → A, X, K, P

2) 22, 67, 34, 59 → A, N, K, W

3) 14, 69, 24, 75 → H, P, F, Q

4) 85, 67, 13, 57 → U, N, I, T

Hence, the correct answer is "85, 67, 13, 57".

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Q51. Answer: (c) 25

We can write,

$69120 = 8^3 \times 3^3 \times 5$

To make it a perfect cube, it should be multiplied by 5^2,

Therefore 25 is the least number that can be multiplied to 69120 to make a perfect cube

Q52. Answer: (a) 20

Let he is on tour for 'x' days

His initial expenditure per day = 360/x

Now, if he exceeds his tour by 4 days,

His daily expenditure = 360/x – 3

Hence, his total expenditure,

=> (x + 4)(360/x – 3) = 360

=> 360 – 3x + 1440/x – 12 = 360

=> $3x^2 + 12x – 1440 = 0$

=> $x^2 + 4x – 480 = 0$

=> $x^2 + 24x – 20x – 480 = 0$

=> x(x + 24) – 20(x + 24) = 0

=> (x + 24)(x – 20) = 0

=> x = -24, 20

Because x cannot be negative

Therefore Mr. Ankit is on tour for 20 days

Q53. Answer: (b) 0.5

We know that, $(a + b)^3 = a^3 + b^3 + 3ab(a + b)$

So, we can write,

=> $(r + s)^3 = r^3 + s^3 + 3rs(r + s)$

Substituting values,

=> $6^3 = 0 + 3rs \times 6$

=> 216 = 18rs

=> rs = 216/18 = 12

Now,

=> (1/r + 1/s) = (r + s)/rs

Therefore (1/r + 1/s) = 6/12 = 0.5

Q54. Answer: (a) 8

Given:

Our given equation is 59x + 14y – 112 = 0

Concept used:

In y-intercept, the value of the x is zero

Calculation:

Given equation, 59x + 14y – 112 = 0

Putting x = 0,

=> 59(0) + 14y – 112 = 0

=> y = 112/14

=> y = 8

Therefore y-intercept of the equation is 8

Q55. Answer: (b) 10

When two circles touch each other externally, the distance between their centres is equal to the sum of their radiuses,

=> Distance = 12 = 7 + Radius of other circle

=> Radius of other circle = 12 – 7 = 5

Therefore Diameter of other circle = 2(5) = 10 cm

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Q56. Answer: (b) 7.5 cm

Given:

Sides of triangle is = 9,12,15

Formula used:

For a triangle with sides a, b and c,

Length of radius of circumcircle = abc/√[(a + b + c)(a + b – c)(b + c – a)(a + c – b)]

Calculation:

Let a = 9 cm, b = 12 cm and c = 15 cm

=> Length of radius of circumference

= (9 × 12 × 15)/√(36 × 6 × 12 × 18)

= 1620/√46656

= 1620/216

= 7.5 cm

Therefore Length of radius of circumference of triangle = 7.5 cm

Q57. Answer: (b) 25

Given:

X = 600 and Y = 800

Calculation:

According to the question

Difference = 800 – 600 = 200

Percentage = 200/800 × 100 = 25%

Therefore X is 25% less than Y

Therefore Option 2 is the correct answer.

Q58. Answer: (c) 137.5

Given:

The ratio of the three numbers is 2 : 3 : 5.

the sum of the three numbers is 275.

Calculation:

Let the three numbers be ‘2x’, ‘3x’ and ‘5x’ respectively

Sum of numbers = 2x + 3x + 5x = 10x

=> 10x = 275

=> x = 275/10 =27.5

Now, 5x = 5 × 27.5 = 137.5

Therefore Largest number is 137.5.

Q59. Answer: (b) 2 : 3 : 3

Let S invested Rs. ‘3x’ for ‘a’ units of time

=> S’s total investment = 3ax

Let T invested Rs. ‘4x’ for ‘b’ units of time

=> T’s total investment = 4bx

Let U invested Rs. ‘6x’ for ‘c’ units of time

=> U’s total investment = 6cx

Now, ratio of investments = ratio of profits

=> 3ax : 4bx : 6cx = 1 : 2 : 3

Taking first two,

=> 3a/4b = 1/2

=> a/b = 2/3 ----(1)

Taking first and third,

=> 3a/6c = 1/3

=> a/c = 2/3 ----(2)

From (1) and (2), we get,

=> a : b : c = 2 : 3 : 3
Therefore Ratio of time periods = 2 : 3 : 3
Profit = Investment × time
Profit ratio = 1: 2: 3
Investment Ratio = 3: 4: 6
Time = Profit/Investemnt
=> Time ratio = 1/3 : 2/4 : 3/6 = (1/3 : 1/2 : 1/2)
LCM of 3, 2 and 2 = 6, So multiply each ratio by 6
(1/3 : 1/2 : 1/2) × 6
Therefore Ratio of time = 2: 3: 3

Q60. Answer: (d) 28

Sum of first seven multiples of 7 = 7(1 + 2 + 3 + 4 + 5 + 6 + 7) = 7(28) = 196
Therefore Required average = 196/7 = 28

Q61. Answer: (a) 1050

Let the two parts be 'x' and '(8000 – x)'
Because Simple interest = (Principal × Rate × Time)/100
=> Simple interest on first part = (x × 21 × 1)/100 = 21x/100
=> Simple interest on second part = [(8000 – x) × 35 × 1]/100 = 2800 – 35x/100
But, the interest is equal in both cases,
=> 21x/100 = 2800 – 35x/100
=> 21x/100 + 35x/100 = 2800
=> 56x/100 = 2800
=> x = 100/56 × 2800 = Rs. 5000
Therefore Interest on each part = 21x/100 = 21/100 × 5000 = Rs. 1050

Q62. Answer: (c) 15

Given:
Selling price of a glass = 1965
Loss percentage = 25%
Formula used:
Because Selling price = Cost price – loss
Calculation:
=> 1965 = CP – 25% of CP
=> 1965 = CP – 1/4 × CP
=> 1965 = 3/4 × CP
=> CP = 1965 × 4/3 = Rs. 2620
Now, when selling price = Rs. 3013
Profit = 3013 – 2620 = Rs. 393
Therefore Profit percentage = 393/2620 × 100 = 15%

Q63. Answer: (c) 3000

Short trick:
Required price = 6000 × 0.8/1.6 = Rs. 3000
Detailed solution:
Let the cost price of the article be Rs. 'x'
Profit = 60%
Because Selling price = Cost price + profit
=> Selling price = x + 60% of x = x + 0.6x = 1.6x
Now,
Marked price = Rs. 6000
Discount = 20% of 6000 = 1/5 × 6000 = Rs. 1200

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=> Selling price = Marked price – Discount = 6000 – 1200 = Rs. 4800

Hence,

=> 1.6x = 4800

=> x = 4800/1.6 = Rs. 3000

Therefore Cost price of article = Rs. 3000

Q64. Answer: (d) 38.23

We know, √729 = 27

=> √7.29 = √(729/100) = 27/10 = 2.7 (Multiply numerator and denominator by 100)

=> √72.9 = √(7.29 × 10) = 2.7 × √10 = 2.7 × 3.16 = 8.53

Therefore √729 + √72.9 + √7.29 = 27 + 8.53 + 2.7 = 38.23

Approximation method:

√729 = 27

Therefore √72.9 = 27/√10 ≈ 8.5

Similarily, √7.29 = √(729/100) = 27/10 = 2.7

√729 + √72.9 + √7.29 = 27 + 8.5 + 2.7 ≈ 38

38 is closest to the option (4) i.e. 38.23

Q65. Answer: (a) 240/37

Rohan's 1 day work + Mohit's 1 day work = 1/8 ----(1)

Mohit's 1 day work + Vikas' 1 day work = 1/10 ----(2)

Vikas' 1 day work + Rohan's 1 day work = 1/12 ----(3)

Adding the three equations,

=> 2(Rohan's 1 day work + Mohit's 1 day work + Vikas' 1 day work) = 1/8 + 1/10 + 1/12

=> 2(Rohan's 1 day work + Mohit's 1 day work + Vikas' 1 day work) = 37/120

=> Rohan's 1 day work + Mohit's 1 day work + Vikas' 1 day work = 1/2 × 37/120

=> Rohan's 1 day work + Mohit's 1 day work + Vikas' 1 day work = 37/240

Therefore Together, they will complete the wall in 240/37 days

Q66. Answer: (c) 1.125

Let the distance between the school and his house be 'x' km

Time taken on first day = Distance/speed = x/5 hrs.

His speed on next day = 5 + 4 = 9 km/hr.

Time taken on next day = x/9 hrs.

Now,

Because He reached 3 min. late on the first day and reached 3 min. early the next day, this means that the difference between the time taken on the 2 days = 3 + 3 = 6 min. = 6/60 = 1/10 hrs.

=> x/5 – x/9 = 1/10

=> (9x – 5x)/45 = 1/10

=> 4x/45 = 1/10

=> x = 45/4 × 1/10

=> x = 1.125 km

Therefore Distance between the school and his house is 1.125 km

Q67. Answer: (b) 2015

No. of students who passed in 2015 = 10000

No. of students who passed in 2014 = 6500

Because No. of students who passed in 2015 > No. of students who passed in 2014

Therefore The answer is 2015

Q68. Answer: (b) 500

No. of students who passed in 2013 = 6500

No. of students who passed in 2016 = 7000

Therefore Required difference = 7000 – 6500 = 500 mango com

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Q69. Answer: (b) 100%

No. of students who passed in 2016 = 7000

No. of students who passed in 2017 = 3500

Therefore Required percentage = [(7000 – 3500)/3500] × 100 = 3500/3500 × 100 = 100%

Q70. Answer: (c) 20500

No. of students who passed in 2015 = 10000

No. of students who passed in 2016 = 7000

No. of students who passed in 2017 = 3500

Therefore Total no. of certificates awarded in last three years = 10000 + 7000 + 3500 = 20500

Q71. Answer: (b) 24

Given:

Length of one diagonal = 7 cm

Area of rhombus = 84 cm^2

Formula used:

Because Area of rhombus = 1/2 × Product of its diagonals

Calculation:

=> 84 = 1/2 × 7 × Other diagonal

Therefore Length of other diagonal = 84 × 2/7 = 24 cm

Q72. Answer: (b) 144

Radius of semi-circle, r = 28 cm

Perimeter of semi-circle = 2r + πr

Therefore Perimeter of given semi-circle = 2(28) + 22/7 × 28 = 56 + 88 = 144 cm

Q73. Answer: (d) 1232

Radius of hemisphere, r = 28/2 = 14 cm

Curved surface area of hemisphere = $2\pi r^2$

Therefore Curved surface area of given hemisphere = 2 × 22/7 × 14 × 14 = 1232 cm^2

Q74. Answer: (b) 7/2√3

Concept used:

Calculation:

sin 60° + 2/√3

= √3/2 + 2/√3 [Because sin 60° = √3/2]

= (3 + 4)/2√3

= 7/2√3

Q75. Answer: (b) 5/3

In the given ΔXYZ,

cos X = base/hypotenuse

=> XY/XZ = 3/5 ----(1)

Now, cosec Z = 1/sin Z = hypotenuse/perpendicular

=> cosec Z = XZ/XY

Substituting from (1)

Therefore cosec Z = 5/3

Q76. Answer: (a) Increase in per capita income

The correct answer is Increase in per capita income

Key Points

• It is observed that people who earn less, tend to produce more children due to the notion that more children will contribute to the economy of the house.

• Moreover, they are not so educated and do not use contraceptives often. So, if a sudden decrease in the birth rate is found, it may lead to an increase in per capita income.

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Q77. Answer: (d) Telecommunications

The correct answer is Telecommunications.

Key Points

• The service sector has contributed the highest foreign direct investment inflows into India.

• Since telecommunications is part of the Service sector, so this is the correct answer.

(As of 2018)

Important Points

• According to a research report published on 28 December 2022 by the India Ratings & Research (Ind-Ra), the Foreign Direct Investment (FDI) in India was maximum in the service sectors.

• The share of the services sector and computer software & hardware in the FDI between April 2014 and March 2022 was as high as 41.3% and 19.6%, respectively, while manufacturing accounted for just 25.4%.

• Foreign Direct Investment (FDI) Equity Inflows:

• Commerce and Industry Ministry said, FDI inflows in the last seven financial years is over 440 billion dollar, which is nearly 58 percent of the total FDI inflow in last 21 financial years.

• The top five countries from where FDI Equity Inflows were received during 2014 to 2021 are Singapore, Mauritius, the USA, Netherlands and Japan.

• The Computer Software and Hardware sector attracted the largest share of FDI inflows, followed by Service, Trading and Telecommunications.

Q78. Answer: (c) Navsari Copperplate Inscription

The correct answer is Navsari Copperplate Inscription.

Key Points

• The copper plate inscription at Nausasi (Navsari) tells us about Harsha's successful mission against Vallabhi.

• According to the inscription, Harsha beat Dhruvasena II, the monarch of Vallabh, who had agreed to become a feudatory vassal, in battle.

• Through a marriage arrangement, his hostilities with the Vallabhi kingdom were put to a stop.

Additional Information

• Aihole Pillar Inscription:

• At the Meguti Jain temple in Aihole, Karnataka, India, there is a nineteen-line Sanskrit inscription known as the "Aihole Pillar Inscription."

• Junagadh Inscription:

• Rudradaman I, the monarch of the Western Satraps, carved a Sanskrit text on a rock and called it the Junagadh Inscription.

• It is close to Girnar Hill, which is close to Junagadh, Gujarat, India.

• Damodarpur copper plate Inscription:

• Details about the selling of land are provided in the Damodarpur copper plate inscription from the Gupta era.

Q79. Answer: (b) Hindukush

The correct answer is Hindukush.

Key Points

• Akbar was the third Mughal Emperor, who reigned from 1556 to 1605.

• The northwestern border of the Mughal Empire during the reign of Akbar reached Hindukush.

• The southern border extended till Godavari, eastern to Bengal and western to Hindukush.

Additional Information

• Akbar was one of the most successful emperors during the Mughal Era.

• He was born on October 1542 and died on 27th October 1605.

• Akbar was the third Mughal Emperor, his reign was between 1556-1605 AD.

• In 1555, Humayan died just months after retaking Delhi. Akbar ascended the Mughal throne at the age of 13 and became Shahanshah ("King of Kings").

• His regent was Bayram Khan, his childhood guardian, and an outstanding warrior/statesman.

• Mughal emperor Akbar was an appreciator of art and literature and many poets adored his court during his reign.

• In his court, there were nine jewels known as Navratan they were:

• Birbal: Administrator

• Abul Fazal: Scholar and statesman

• Faizi: Scholar and Statesman
• Todarmal: Finance minister
• Bhagwandas: Mansabdar
• Man Singh: Mansabdar
• Tansen: Musician
• Abdul Rahim khan-i-khana: Statesman
• Mulla do Pyaza

Q80. Answer: (a) Perihelion

The correct answer is Perihelion

Key Points

• Perihelion is the point in the orbit of the planet that is closest to the sun and Aphelion is the point in the orbit of the planet that is farthest from the sun.

• Perigee is that point in the orbit of the moon that is closest to the Earth and apogee is that point in the orbit of the moon that is farthest from the Earth.

Additional Information Aphelion

• the Earth is farthest away from the Sun, at the Aphelion point, 2 weeks after the June Solstice, when the Northern Hemisphere is enjoying warm summer months.

Apogee

• The point of the orbit where the satellite is farthest from the Earth is called apogee.

• The maximum distance of the moon from the earth (4,06,000 km) is called apogee.

Perigee

• The minimum distance of the moon from the earth (3,64,000) is called perigee.

Q81. Answer: (d) Both 1 and 3

The correct answer is Both 1 and 3.

Key PointsIndira Point:

• Indira Point is the southernmost point of the Indian Territory.

• It is a village in the Nicobar district at Great Nicobar Island of Andaman and Nicobar Islands in India.

• Rondo Island, Indonesia’s northernmost island in the Sabang district of Aceh province of Sumatra, lies 163 km south of Little Andaman Island and 145 km or 80 nautical miles from Indira point.

• The point was formerly known as Pygmalion Point and Parsons Point.

• It was renamed in honour of Indira Gandhi during the mid-1980s.

• Galathea National Park and Lighthouse are the major attractions here.

Q82. Answer: (b) Narendranath Dutt

The correct answer is Narendranath Dutt.

Key Points

• Swami Vivekananda

• Swami Vivekananda was born on 12th January 1863.

• His birthday is celebrated as national youth day in India.

• Narendranath Datta is the original name of Swami Vivekananda.

• He is considered the patriotic saint of India.

• "Go back to Gita" is a famous slogan raised by Swami Vivekananda.

• He attended the parliament of religions held in Chicago on 11th September 1893.

• He died on 4th July 1902 at the age of 39.

Additional Information

• Ramakrishna Mission was founded by Swami Vivekananda in 1897.

• The headquarters of Ramakrishna Mission is located at Belur Math in West Bengal.

• The mission is named after and inspired by the Indian saint Ramakrishna Paramahamsa.

• Ramakrishna Paramahamsa was the guru (teacher) of Swami Vivekananda.

• "Atmano mokshartham Jagat Hitaya cha" is the motto of Ramakrishna Mission.

• Ramakrishna Mission helps with the installation of photovoltaic (PV) lighting systems in the Sundarbans region of West Bengal.

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Q83. Answer: (b) India and Kazakhstan

The correct answer is India and Kazakhstan.

Key Points

• A 14-day combined military exercise between India and Kazakhstan is called Prabal Dostyk.

• It indicates that the war game is being played by at least two nations.

• The exercise was held at Chelyabinsk (Russia) and Saryshagan (Kazakhstan).

• It began in 2016, but since then, it has continued on a regular basis.

• In order to conduct counterterrorism operations at a high altitude, the Indian Army initially conducted this exercise in 2016.

• This exercise's second iteration was placed in Madhya Pradesh, India, in 2017.

Additional Information

• The third iteration of the EX-DUSTLIK joint training exercise between the armies of India and Uzbekistan took place at Yangiarik, Uzbekistan, from March 22 to March 31, 2022.

Q84. Answer: (c) Sardar Singh

The correct answer is Sardar Singh.

Key Points

• For the year 2017, the "Rajiv Gandhi Khel Ratna Award" was awarded to Sardar Singh for hockey and Devendra Jhajharia for Para-Athletics.

• For the year 2018, the "Rajiv Gandhi Khel Ratna Award" is awarded to Virat Kohli, incumbent captain of the Indian Cricket team and Saikhom Mirabai Chanu for weightlifting.

• Rajiv Gandhi Khel Ratna Award is the highest sports honour in India and is awarded annually by the Ministry of Youth Affairs and Sports.

Additional Information

• Major Dhyan Chand Sport Jewel Award, formerly known as the Rajiv Gandhi Khel Ratna Award in Sports and Games, is the highest sporting honour in India.

• The award is named after Rajiv Gandhi, former Prime Minister of India who served the office from 1984 to 1989.

• It is awarded annually by the Ministry of Youth Affairs and Sports.

• The recipient(s) is/are selected by a committee constituted by the Ministry and are honoured for their "spectacular and most outstanding performance in the field of sports over a period of four years" at the international level.

• As of 2020, the award comprises a medallion, a certificate, and a cash prize of Rs. 25 lakh.

• The award was instituted in the year 1991- 92 and was awarded by the Government of India.

• Vishwanathan Anand was the first person to receive the Rajiv Gandhi Khel Ratna award.

Q85. Answer: (c) Sri Lanka

The correct answer is Srilanka.

Key Points

• Vedda is the indigenous minority tribe of Srilanka.

• The Vedda are a minority indigenous group of people in Sri Lanka who, among other sub-communities such as Coast Veddas, Anuradhapura Veddas and Bintenne Veddas, are accorded indigenous status.

• The Vedda minority in Sri Lanka may become completely assimilated.

• Most speak Sinhala instead of their indigenous languages, which are nearing extinction.

• It has been hypothesized that the Vedda were probably the earliest inhabitants of Sri Lanka and have lived on the island since before the arrival of other ethnic groups in India.

Additional Information

• The largest tribe of Bangladesh is the Chakma tribe.

• Other important tribes of Bangladesh are Marmas, Tripuri, Tanchangya, Mrus, Santals, etc.

Q86. Answer: (a) Silk

The Correct answer is Silk.

Explanation:

• Silk is a natural fibre whereas rayon, nylon and polyester are artificial fibres.

• The fibres which are produced naturally, i.e. by plants, animals or geological processes are called natural fibres.

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Q87. Answer: (b) Oxides of non-metals are acidic.

The correct answer is Oxides of non-metals are acidic.

Explanation:

• Most of the oxides of non-metals are acidic and oxides of metals are basic.

• But, not all oxides of non-metals are acidic e.g. Carbon monoxide is not acidic and the same is the case with bases.

Additional Information

• Oxides are compounds formed by the reaction of metals, and non-metals with oxygen.

• The types of oxides are:

• Basic oxide: It is a complex chemical substance oxide, which forms a salt with a chemical reaction with acids or acidic oxides and does not react with bases or basic oxides.

• E.g. Copper oxide (Cu2O), Magnesium oxide (MgO)

• Acidic oxide: It is a complex chemical substance oxide, which forms a salt with chemical reactions with bases or basic oxides and does not react with acidic oxides.

• E.g. Carbon dioxide (CO2), Silicon dioxide (SiO2)

• Amphoteric oxide: It is a complex chemical substance, also oxide, which forms a salt with chemical reactions with acids (or acid oxides) and with bases (or basic oxides).

Q88. Answer: (d) Finance Commission

The correct answer is Finance Commission.

Key Points

• Finance Commission is a constitutional body mentioned in Article 280 and is responsible to define financial relations between the central Govt. and the state Govt. Recently, in 2017, the 15^(th) Finance Commission was constituted, chaired by N.K. Singh.

• NITI Aayog is neither statuary nor Constitutional in nature. It is the Govt. think tank. National Human Rights Commission and Central Vigilance Commission are the statuary bodies.

Additional Information

• National Human Rights Commission

• In 1993, the National Human Rights Commission (NHRC) was founded.

• In accordance with the guidelines of the 1993 Protection of Human Rights Act, it is a statutory autonomous authority.

• It was amended in 2006.

• The National Human Rights Commission is currently presided over by Shri Justice Arun Kumar Mishra.

• He assumed on June 2, 2021.

• The NHRC examines a person's rights to life, dignity, liberty, and equality as those terms are specified in Section 2(1) of the PHR Act.

• NITI Aayog:

• NITI Aayog or National Institution for Transforming India Aayog is the replacement for the Planning Commission of India.

• National Institution for Transforming India (NITI) Aayog was created by Prime Minister, Narendra Modi on 15 August 2014.

• Prime Minister is the Chairperson.

• Central Vigilance Commission

• The Central Vigilance Commission was set up by the Government in February 1964 on the recommendations of the Committee on Prevention of Corruption, headed by Shri K. Santhanam, to advise and guide Central Government agencies in the field of vigilance.

• CVC is conceived to be the apex vigilance institution, free of control from any executive authority, monitoring all vigilance activity under the Central Government and advising various authorities in Central Government organizations in planning, executing, reviewing and reforming their vigilant work.

• Consequent upon promulgation of an Ordinance by the President, the Central Vigilance Commission has been made a multi-member Commission with "statutory status" with effect from 25th August 1998.

Q89. Answer: (d) Part IX A

The correct answer is Part IX A.

Key Points

• Part IX-A of the Indian constitution deals with municipalities.

• It was added by the 74th amendment act of the Indian constitution.

• The 74th amendment act was introduced in 1992.

• It came into force on 1st June 1993.

• Part IX-A of the Indian constitution covers Articles 243 P to 243 ZG.
• The act added a new twelfth schedule to the Indian constitution.
• The first municipal corporation in India was set up in Madras in 1688.
• The Municipal Corporation of Bombay and Calcutta was set up in 1726.

Additional Information

PART	DEALS WITH
IX A	Municipalities
XI	Relations between Union and States
VII	Part B states in the Indian Union (deleted now)
VIII	The Union Territories

Q90. Answer: (a) enzymes

The correct answer is enzymes.

Key Points

• Enzymes
• Enzymes are proteins made from amino acids.
• It is made up of hundreds and thousands of amino acids stringed together in a very specific and unique order.
• Any chemical reaction inside a cell or any work that goes on inside a cell is the handiwork of enzymes inside the cell.
• The word enzyme was coined in 1878 by German Scientist Wilhelm Kuhne.
• Enzymes act as biological catalysts (biocatalysts).
• Catalysts accelerate chemical reactions.

Additional Information

• Hormones
• Hormones are non-nutrient chemicals.
• A physical change occurs in the body through certain chemical substances called hormones.
• The hormone is secreted by the endocrine glands into the blood.

Glands	Hormones	Functions
Pituitary	Growth hormone	Regulates growth.
Thyroid	Thyroxine	Plays an important role in regulating weight, body.
Parathyroid	Parathormone	Controls calcium balance.
Adrenal	Adrenaline	Prepares the body for an emergency.
Pancreas	Insulin	Controls glucose level.
Thymus	Thymosin	Growth of genitalia in childhood.
Testes	Testosterone	Growth of the male reproductive system.
Ovaries	Oestrogen, Progesterone	Growth of the female reproductive system.

• Vitamins
• Vitamins are organic compounds that are present in minute amounts in natural foodstuffs.
• Most vitamins come from food because the body either does not produce them or produces very little.
• Vitamins are of two types.
• Fat-soluble vitamins- Vitamins A, D, E, K
• Water-soluble vitamins- Vitamin C and all the B vitamins.

Q91. Answer: (a) Pyruvate

The correct answer is Pyruvate.

Key Points

• One molecule of glucose is converted into two molecules of pyruvate, two hydrogen ions, and two molecules of water. Through

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this process, the high energy molecules of ATP and NADH are synthesized.

• The overall process is called Glycolysis.

• Glycolysis can be considered as a two-part process. Firstly, energy is consumed to generate high energy intermediates, which then go on to release their energy during the second phase:

• The energy investment phase – requires two ADP molecules to produce high energy intermediates.

• The energy pay-out phase – The intermediate is metabolized, producing four ATP molecules and two NADH molecules.

• The overall reaction of glycolysis which occurs in the cytoplasm is represented simply as:

• $C_6H_{12}O_6 + 2\ NAD^+ + 2\ ADP + 2\ P \rightarrow 2\ (CH_3(C=O)COOH) + 2\ ATP + 2\ NADH + 2\ H^+$; where

• $C_6H_{12}O_6$ = Glucose

• NAD = Nicotinamide Adenine Dinucleotide

• ADP = Adenosine Diphosphate

• Pyruvic acid = $CH_3(C=O)COOH$

• ATP = Adenosine Triphosphate

• NADH = Nicotinamide Adenine Dinucleotide Hydride

Q92. Answer: (c) Electricity connections

The correct answer is Electricity connections.

Key Points

• Saubhagya Scheme:

• Saubhagya Scheme aims to achieve universal household electrification in all parts of the country.

• The scheme primarily benefits rural areas, which have a vast majority of households without power connections.

• The beneficiaries of free electricity connection would be identified using Socio-Economic and Caste Census (SECC) 2011 data.

• Expected outcomes:

• Environmental upgradation by substitution of Kerosene for lighting purposes.

• Improvement of education services.

• Better health services.

• Enhanced connectivity through radio, television, mobiles, etc.

• Increased economic activities and jobs.

• Improved quality of life especially for women.

Important Points

• SAUBHAGYA completes four years of successful implementation.

• 2.82 crore households have been electrified since the launch of SAUBHAGYA.

• A dedicated toll-free helpline is in place to identify and provide electricity connections to remaining unelectrified households.

Additional Information

Jal Jeevan Mission

• JJM envisages a supply of 55 litres of water per person per day to every rural household through Functional Household Tap Connections (FHTC) by 2024.

• It is under the Ministry of Jal Shakti.

• The fund-sharing pattern between the Centre and states is 90:10 for Himalayan and North-Eastern States, 50:50 for other states, and 100% for Union Territories.

• The total allocation to the scheme is over Rs. 3 lakh crore.

• It also encompasses prioritizing the provision of FHTCs in quality-affected areas, villages in drought-prone and desert areas, Sansad Adarsh Gram Yojana (SAGY) villages, etc.

Pradhan Mantri Ujjwala yojna:

• The PMUY was launched on May 1st, 2016 in Ballia, Uttar Pradesh.

• It was to provide a free LPG connection to women belonging to BPL.

• It is one of the best ways to create smokeless cooking and to make women's life healthy.

Q93. Answer: (a) Rotavac

The correct answer is Rotavac.

Key Points

• Former Vice President of India- Shri Venkaiah Naidu launched ROTAVAC 5D which is oral rotavirus, considered the world's lowest dose-volume vaccine.

• It is developed by Indian manufacturer Bharat Biotech.
• It became the first indigenously developed vaccine from India to be pre-qualified by World Health Organization.
• The Rotavac vaccine is similar to the oral polio drop.
• It is given under the age same regimen of 6, 10 and 14 weeks.
• ROTAVAC 5D prevents rotavirus diarrhoea in young children.
• It required a much lower temperature for storage which was difficult to attain and in higher doses for full efficiency.
• It is to be stored at 2-8 °C.
• 3.3 lakh annual deaths in India were attributable to diarrhoeal diseases as per WHO.

Q94. Answer: (b) Rs 25,000

The correct answer is Rs 25,000.

Key Points

• By capping client liability at Rs 25,000 if they report unauthorized transactions within seven working days, RBI has taken a significant step toward protecting customers from significant financial losses as a result of fraud.
• If clients tell the bank within three working days of the transaction, they cannot be held at all accountable.
• When a third party commits a breach, these regulations will apply because the problem isn't with the bank or the consumer, but rather somewhere else in the system.

Additional Information

• Limited liability of a customer:
• In the following circumstances, a customer is responsible for any loss brought on by unauthorized transactions:
• Customers will be responsible for the whole loss up until they notify the bank of the unauthorized transaction in circumstances where the loss was caused by their negligence, such as when they disclosed their payment credentials.
• The bank will be responsible for covering any losses that arise after the unlawful transaction has been reported.

Q95. Answer: (a) Motor Vehicles Act, 1988

The correct answer is Motor Vehicles Act, 1988.

Key Points

• In order to address issues including third-party insurance, regulating cab aggregators, and road safety, the Bill changes the Motor Vehicles Act of 1988.
• The third-party insurer has unlimited liability under the Act for motor vehicle incidents.
• The Bill limits third-party insurance's maximum responsibility in the event of a motor vehicle accident to Rs. 10 lakh in cases of death and Rs. 5 lakh in cases of serious injury.
• The bill calls for the establishment of a Motor Vehicle Accident Fund, which would mandate insurance coverage for specific sorts of incidents for all Indian road users.
• The Bill establishes the definition of cab aggregators, whose rules will be set by the national government.

Additional Information

• Motor Vehicles (Amendment) Bill, 2019 :
• Mr. Nitin Gadkari, the Minister of Road Transport and Highways, introduced the Motor Vehicles (Amendment) Bill, 2019 in the Lok Sabha.
• The Motor Vehicles Act, 1988 is being amended by the bill to include provisions for traffic safety.
• The Act establishes requirements for motor vehicles, the issuance of licenses and permits relating to motor vehicles, and sanctions for violations of these laws.

Q96. Answer: (b) 12

The correct answer is 12.

Calculation:

If two resistances, R1 and R2 are connected in parallel, then effective resistance, R is:

1/R = 1/R1 + 1/R2,

Here, R1=20 Ω and R2 =30 Ω

So, 1/R = 1/20 + 1/30, or, R = 600/50 = 12 Ω.

Q97. Answer: (a) 5/18

1 km = 1000 m and 1 hour = 60 minutes = 3600 seconds,

So, 1 Km/hr = 1000/3600 = 5/18 m/s

When m/s needs to be converted to km/hr, then multiply by	18/5
When km/hr needs to be converted to m/s, then multiply by	5/18

Q98. Answer: (b) Fat

The correct answer is Fat.

Explanation:

• Fat helps Polar bear to sustain extreme cold in the long-duration winters.

• It also helps them preserve their energy as they cannot go hunting in extremely chilling weather.

• Polar bears have an insulation-producing layer of fat beneath the skin.

• Long, curved claws with a pointy tip for gliding across the ice.

• Adaptation of animals to climatic conditions is essential for their survival.

• Polar bear survives in very cold weather conditions because of the Thick layer of fat under the skin.

• A thick layer of fat is made up of white fur which heps them to get protection from cold weather.

• Every organism adapts to the environment in which they survive.

• Polar bears survive in very cold regions due to various adaptations done by them through the process of evolution.

Q99. Answer: (c) A and C

The correct answer is A and C.

Key Points

• Maverick Vinales won the 2017 Qatar Motorcycle Grand Prix MotoGP. Hence statement A is correct.

• In 2017, Virat Kohli captained the IPL team Royal Challengers Bangalore in most of the matches. In 2018, he was the captain of Royal Challengers Bangalore in all the matches. Hence statement B is wrong.

• In 2017, Gautam Gambhir captained the IPL team Kolkata Knight Riders. Hence Statement C is correct.

Q100. Answer: (d) Font formatting

The correct answer is Font formatting.

Key Points

• In Microsoft Word, under character formatting underline is used to underline some particular text.

• Font style is used to change the style of the default font or the one you were using earlier.

• Font size has used the change the size of the text.

• Effects are used to change the look of a text.

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