SSC CHSL Previous Paper 21 (Held On: 13 March 2018 Shift 2) (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) inundate
(b) inundat
(c) inunndate
(d) inunndat

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.

Although not all those who study

A-better thinkers and leaders

B-become philosophers, they become

C-logic or philosophy may

(a) CAB
(b) BCA
(c) CBA
(d) BAC

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 in needed, select “no improvement”.

If all of us (had been) philosophical thinkers, we would not have been deceived by scheming politicians all these years.

(a) has been
(b) have been
(c) had being
(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 in needed, select “no improvement”.

Whether it (were balancing) the budget or the day-to-day menu, grandma was the expert.

(a) has balancing
(b) was balanced
(c) was balancing
(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.

Comfort someone at a time of grief of disappointment

(a) Arouse
(b) Pique

(c) Fluster
(d) Console

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

Reduce or decrease in speed or intensity

(a) Expedite
(b) Slacken
(c) Impel
(d) Spur

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

Excuse my French

(a) Used to apologize for swearing
(b) Said when one cannot speak the language of the other person correctly.
(c) Used to make a flimsy excuse.
(d) Used when you give up easily.

Q8. In the following question, out of the four alternative, select the alternative which best expresses the meaning of the idiom/phrase.

To quit on someone

(a) To fire someone from a job
(b) To cheat with someone
(c) To give up on a difficult person.
(d) To stop helping someone, especially when the support is needed.

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.

Without habit, personality could not exist; for we could never do a thing twice alike, and _____ would be a new person each succeeding moment. The acts which give us our own peculiar _____ are our habitual acts--the little things that do themselves moment by moment without care or attention, and are the truest and best expression of our real selves. Probably ___ one of us could be very sure which arm he puts ____ the sleeve, or which foot he puts into the shoe, first; and yet each of us _____ formed the habit long ago of doing these things in a certain way.

Q9. and yet each of us _____ formed the habit

(a) certain
(b) certainty
(c) certainly
(d) be certain

Q10. which arm he puts _____ the sleeve

(a) into
(b) on
(c) upon
(d) to

Q11. Probably _____ one of us could

(a) negative
(b) never
(c) no
(d) nor

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Q12. own peculiar _____ are our habitual acts

(a) individual
(b) individuals
(c) individuality
(d) individualist

Q13. twice alike, and _____ would be a new person

(a) hence
(b) if
(c) but
(d) also

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) Pharaoh
(b) Faraoh
(c) Pharoah
(d) Pharoar

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.

He said to me, “I have often told you not to play in the dark.”

(a) He said to him that he shouldn’t play in the dark.
(b) He reminded me that he had often told me not to play in the dark.
(c) He asked him to not play in the dark.
(d) He asked me that he had told me to not play in the dark.

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.

The assassin shot the President.

(a) The President shot by the assassin.
(b) The President was shoot by the assassin.
(c) The President got shot by the assassin.
(d) The President was shot by the assassin.

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

An inference is

P: the direct, logical one

Q: the likely or probable

R: conclusion rather than

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

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

Peer

(a) Equal
(b) Look
(c) Match
(d) Inferior

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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.

Altruism

(a) Charity
(b) Kindness
(c) Compassion
(d) Spite

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

Excogitate

(a) Communication
(b) Die
(c) Invent
(d) Ignore

Q21. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Abeyance

(a) Revival
(b) Inactive
(c) Operation
(d) Continuation

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.

Without education we are _____ and our lives are useless without any meaning attached to it.

(a) someone
(b) uncomplete
(c) complete
(d) incomplete

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.

He is a man of _____.

(a) principal
(b) dusty
(c) principle
(d) enthusiasm

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'.

In 1961, a meteoroid was defined as "a solid object moving in (1)/ interplanetary space, of a size considerably smaller than (2)/ an asteroid and considerably larger then an atom". (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'.

His hard (1)/ punch lay (2)/ him on the road. (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.

Grapes : Fruit :: ? : ?

(a) Stem : Potato
(b) Ginger : Branch
(c) Tomato : Red
(d) Ladyfinger : Vegetable

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

42 : 55 :: ? : ?

(a) 35 : 48
(b) 64 : 80
(c) 52 : 69
(d) 36 : 54

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

NPQ : SUV :: JLM : ?

(a) PQS
(b) ORS
(c) PQR
(d) OQR

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

(a) Cricket – Pitch
(b) Skating - Ring
(c) Hockey – Ground
(d) Wrestling – Arena

Q30. In the following question, four number pairs are given. The number on left side of (–) is related to the number on 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) 13 – 15
(b) 17 – 19
(c) 11 – 13
(d) 15 – 19

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

(a) KQW
(b) BGN
(c) MSY
(d) NTZ

Q32. From the given alternatives, according to dictionary, which word will come at FIRST position?

1. Glorious
2. Glider
3. Golden
4. Glisten
5. Grapes

(a) Glider
(b) Golden

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(c) Grapes
(d) Glisten

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

21, 11, 32, 43, 75, ?

(a) 125
(b) 153
(c) 118
(d) 97

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

GX, HW, IV, ?, KT

(a) JU
(b) KU
(c) JV
(d) JS

Q35. Rajan walks 24 metres towards east. Then turns right and walk another 24 metres. Then turn right and walks for 31 metres to reach shop A. He again turns to his right and walks for 24 metres. What is the straight line distance (in metres) between the starting point and shop A?

(a) 14√2
(b) 15√2
(c) 25
(d) 26

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

Ancillary

(a) Ail
(b) Navy
(c) Nill
(d) Any

Q37. In a certain code language, “POLIS” is written as “SROLV”. How is “MRUGS” written in that code language?

(a) JLNQF
(b) PUXJV
(c) FNPRA
(d) VJQZT

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

20 × 12 ÷ 3 - 40 + 12 = ?

(a) 25
(b) 32
(c) 18
(d) 7

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

14 ÷ 10 × 20 - 40 + 34 = 1

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

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Q40. If 30% 6 = -5, 10 % 5 = -2 and 10% 2 = -5, then find the value of 80 % 8 = ?

(a) 40
(b) 25
(c) -10
(d) 5

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

aAAAAAA, AaAAAAA, AAaAAAA, AAAaAAA, AAAAaAA, _____.

(a) AAAAAAa
(b) aAAAAAA
(c) AaAAAAA
(d) AAAAAaA

Q42. A helicopter flies 80 km north, then it turns West and flies 50 km, then it turns North and flies 120 km, then it turns to its right and flies 50 km. Where is it now with reference to its starting position?

(a) 40 km North
(b) 220 km South
(c) 40 km South
(d) 200 km North

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 it seems 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: some genies are ogres

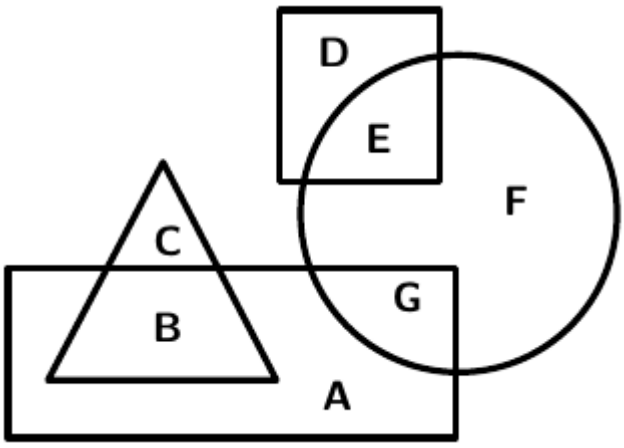
Statement II: No magic are genies

Conclusion I: Some ogres are magic

Conclusion II: All magic are ogres

(a) Only conclusion I follow
(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 Web designers, circle represents Athlete, Triangle represents Sculptors and square represents Asians. Which set of letters represents Asians Who are not Athletes?



(a) DEF
(b) D
(c) GF
(d) DE

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

RMT, PKR, NIP, ?, JEL

(a) KNL
(b) LGN
(c) MHO
(d) KFM

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

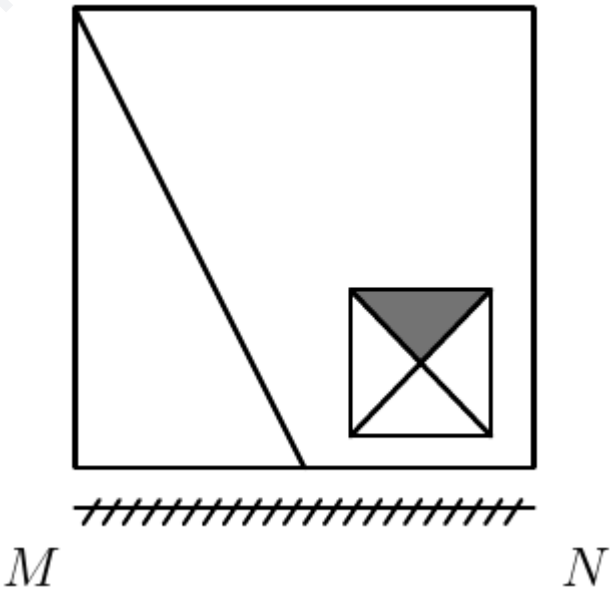
144, 139, 133, 128, ?, 117, 111

(a) 124
(b) 123
(c) 122
(d) 126

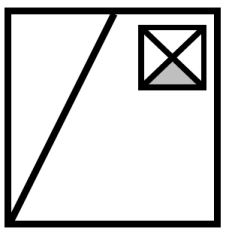
Q47. In the following question, four groups of three numbers are given. In each group, the second and third numbers are related to the first number by a Logic/Rule/Relation. Three of them are similar on the basis of the same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (16, 48, 49)
(b) (23, 69, 70)
(c) (17, 51, 52)
(d) (34, 112, 113)

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

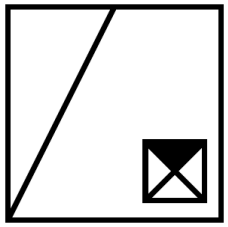


(a)

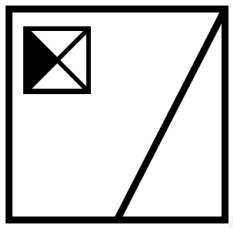


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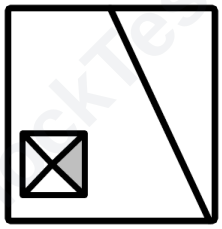
(b)



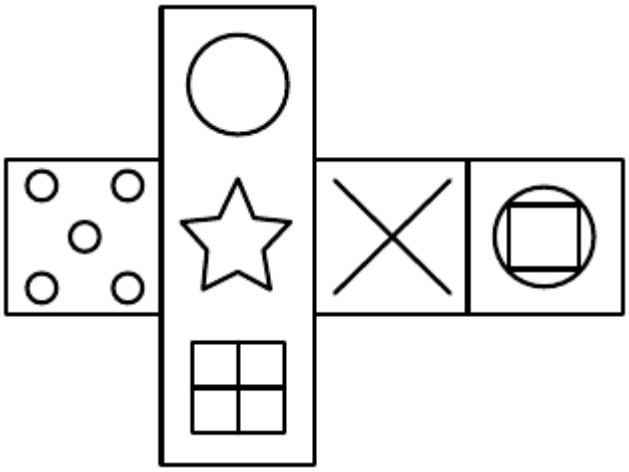
(c)



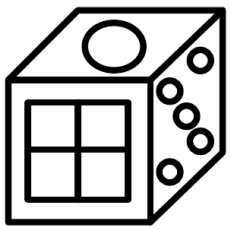
(d)



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

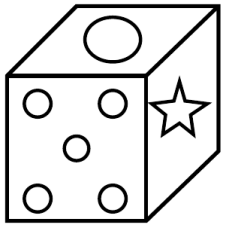


(a)

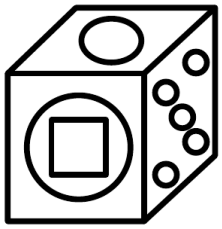


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(b)



(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 resented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matix - I are numbered from 0 to 4 and that a Matrix - II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and row and next by its column, for example, 'B' can be represented by 24, 31 etc., and 'V' can be represented by 86, 89 etc. Similarly, you have to identify the set for the word "VAMP".

Matrix - I		**Matrix - II**										
	0	1	2	3	4			5	6	7	8	9
0	M	I	G	A	L		5	S	S	W	Q	N
1	G	K	K	C	J		6	U	N	P	Q	U
2	M	K	L	I	B		7	U	R	Q	N	T
3	J	B	H	I	H		8	U	V	Y	X	V
4	L	D	B	L	A		9	Y	O	S	U	X

(a) 31, 78, 23, 59
(b) 86, 44, 20, 67
(c) 13, 87, 10, 67
(d) 21, 88, 32, 96

QUANTITATIVE APTITUDE

Q51. What is the place value and face value of 9 in 68956 respectively?

(a) 9, 900
(b) 900, 9
(c) 9, 9
(d) 9000, 900

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Q52. Find the unit place digit in 71 × 72 × 73 × 74 × 76 × 77 × 78 × 79.

(a) 2
(b) 0
(c) 4
(d) 6

Q53. The value of 1 + 2^2 + 2^3 + 2^4 + ……. + 2^9 is _____.

(a) 255
(b) 511
(c) 1021
(d) 2047

Q54. What will be the value of $a^3 + b^3$, if $a^2 + b^2 = 32$ and a + b = 8

(a) 8
(b) 32
(c) 128
(d) 256

Q55. The line bisecting all the three angles of a triangle meets at a common point. This point is known as _____.

(a) circum-center
(b) centroid
(c) orthocentre
(d) in-center

Q56. The point of the intersection of three medians is known as the _____.

(a) circum-centre
(b) in-center
(c) centroid
(d) orthocenter

Q57. If P = 5X and Q = X, then P is how much percentage more than Q?

(a) 80
(b) 320
(c) 500
(d) 400

Q58. The ratio of three numbers is 2 : 5 : 7. If their product is 1890, then what is the sum of the three numbers?

(a) 82
(b) 140
(c) 42
(d) 72

Q59. P starts a business with Rs. 14000. After 8 months Q joins P with Rs. 8000. After 3 years, what will be the ratio of the profit of P and Q?

(a) 12 : 5
(b) 9 : 4
(c) 14 : 9
(d) 15 : 8

Q60. A person bought 100 cars for Rs. 40000. If the average price of 60 cars is Rs. 500, then what will be the average price (in Rs.) of remaining cars?

(a) 200
(b) 250
(c) 300
(d) 350

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Q61. The simple interest on a sum for 5 years is Rs. 16800. The rate of interest for the first 3 years is 8% per annum and for the next 2 years is 12% per annum. What is the value (in Rs) of the sum?

(a) 30000
(b) 38000
(c) 32000
(d) 35000

Q62. Selling price of an article is Rs. 1144. If loss percentage is 12%, then what is the cost price (in Rs.) of the article?

(a) 1300
(b) 1006
(c) 1242
(d) 1440

Q63. Marked price of a chair is Rs 800 and discount is 15%. What is additional discount (in percentage) should be offered to the customer to bring the price of chair to Rs. 578?

(a) 15%
(b) 10%
(c) 16.5%
(d) 17.5%

Q64. Which of the following statement (s) is/are TRUE?

I. cbrt512 × √256 > cbrt343 × √289
II. √121 + cbrt1331 > cbrt125 × √125

(a) Only I
(b) Only II
(c) Neither I nor II
(d) Both I and II

Q65. Two pipes can fill a cistern in 28 and 21 hours respectively and another pipe can empty 3 gallons of water per hour. All the three pipes working together can fill the empty cistern in 84 hours. What is the capacity (in gallons) of the cistern?

(a) 32
(b) 36
(c) 42
(d) 40

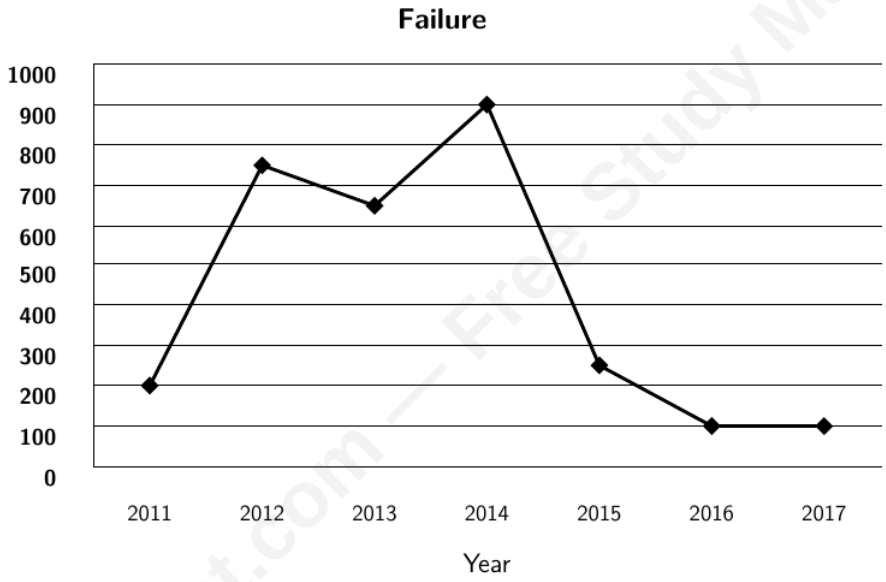
Q66. A train is moving at the speed of 36 km/hr. How many seconds it will take to cover a distance of 600 meters?

(a) 60
(b) 120
(c) 30
(d) 40

Directions

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

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Q67. In which year were failures greater than that of the previous year?

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

Q68. What was the difference in failures between the years 2011 and 2013?

(a) 6000
(b) 4500
(c) 6500
(d) 4000

Q69. Failures in 2014 were greater than that in 2012 by _____.

(a) 25%
(b) 16.67%
(c) 20%
(d) 15%

Q70. What is the average number of failures in the last three years?

(a) 1500
(b) 1250
(c) 1350
(d) 1400

Q71. The area of a square is 40.5 cm^2. Find the length of its diagonal (in cm).

(a) 9
(b) 4.5
(c) 18
(d) 13.5

Q72. What is the measure of an exterior angle of a regular polygon of 10 sides?

(a) 30°
(b) 24°
(c) 36°
(d) 20°

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Q73. The total surface area of a hemisphere is 462 cm². Find its diameter (in cm).

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

Q74. What is the value of (sin 60° - 2/√3)?

(a) -1/2√3
(b) -1/2
(c) 1/√3
(d) (1 - 2√3)/2

Q75. ΔPQR is right angled at Q. If tan P = 24/7, then what is the value of cos R?

(a) 25/7
(b) 24/25
(c) 24/7
(d) 7/24

GENERAL AWARENESS

Q76. Deindustrialisation means: _____.

(a) Uprooting of people from agriculture and planting them in industries
(b) Movement of workforce from the industrial sector to the service sector
(c) A deliberate effort to compel the existing industries to shut down
(d) A deliberate effort to promote the new industries

Q77. Why are the Indian workers less skilled than the workers of western countries?

(a) Low level of wages
(b) Inferior quality of capital provided to labourers
(c) High level of illiteracy
(d) Strong trade unions

Q78. Junagadh inscription is written in which of the following languages?

(a) Prakrit
(b) Pali
(c) Kharoshthi
(d) Sanskrit

Q79. Who among the following is considered as a political guru of Mahatma Gandhi?

(a) Dadabhai Naoroji
(b) Gopal Krishna Gokhale
(c) Lala Lajpat Rai
(d) Bal Gangadhar Tilak

Q80. What is the main cause of temperature rise in the interior of the Earth?

(a) Pressure
(b) Breakdown of radioactive substances
(c) Both the pressure and breakdown of radioactive substances
(d) No option is correct.

Q81. The two volcanic islands located in the Indian Territory are: _____.

(a) Kavaratti and New Moore
(b) Pamban and Barren
(c) Barren and Narcondam
(d) Great Andaman and Little Nicobar

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Q82. Sadir is a name of which ancient dance style of India?

(a) Kathak
(b) Odissi
(c) Bharatanatyam
(d) Mohiniattam

Q83. Which country has made world's first all-electric ship, which can travel up to 80 Km with 200 tons cargo after a two-hour charge?

(a) Japan
(b) South Korea
(c) China
(d) Australia

Q84. Who among the following has been awarded the 'German Green Talent Award 2017'?

(a) Sukhveer Rohilla
(b) Pushpa Negrani
(c) Shamik Chaudhary
(d) Rishi Dholakiya

Q85. Where is the commercial capital of Sri Lanka?

(a) Trincomalee
(b) Colombo
(c) Galle
(d) Kandy

Q86. Which unit is most commonly used to measure atomic radius?

(a) Fermi
(b) Millimetre
(c) Angstrom
(d) Micrometre

Q87. Which of the statement(s) about the reaction given below is/are CORRECT?

$2PbO\ (s) + C\ (s) \rightarrow 2Pb\ (s) + CO_2\ (g)$

I. Lead is getting reduced.

II. Carbon is getting reduced.

III. Lead oxide is getting reduced.

(a) Only I and II
(b) Only I and III
(c) Only II and III
(d) All I, II and III

Q88. Who appoints Chairman of Union Public Service Commission in India?

(a) Prime Minister of India
(b) Home Minister of India
(c) President of India
(d) Chief Election Commissioner of India

Q89. Part of XVII of India Constitution deals with _____.

(a) Elections
(b) Official language
(c) Panchayat
(d) Fundamental rights

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Q90. Breaking down of fats from large globules to smaller globules by Bile juice is similar to which of the following?

(a) Emulsification of soaps
(b) Esterification of alcohol
(c) Fermentation of glucose
(d) Eutrophication of water

Q91. Robert Hooke discovered cells by observing them in a _____.

(a) Onion peel
(b) Cork slice
(c) Pond water
(d) No option is correct.

Q92. In September 2017, Government of India approved the revamped 'Khelo India Programme' at a cost of Rs. 1756 crore for the period _____.

(a) 2017-18 to 2019-20
(b) 2017-18 to 2018-19
(c) 2018-19 to 2019-20
(d) 2018-19 to 2020-21

Q93. In December 2017, as per the announcement made by the Finance Ministry, nearly how much amount have banks lost on account of frauds in the fiscal?

(a) Rs 50,000 crore
(b) Rs 5000 crore
(c) Rs 17,000 crore
(d) Rs 1,000 crore

Q94. On 26 July 2017, the Parliament passed the Collection of Statistics (Amendment) Bill, 2017. This Bill extends jurisdiction of the act to which state?

(a) Manipur
(b) Assam
(c) Jammu and Kashmir
(d) Nagaland

Q95. What is the effective resistance (in Ω) of two resistors 12 Ω and 24 Ω connected in parallel?

(a) 36
(b) 8
(c) 16
(d) 72

Q96. If the Distance-Time graph is a straight inclined line, then it represents _____.

(a) Uniform speed
(b) Non-uniform speed
(c) Constant displacement
(d) Non-uniform velocity

Q97. When warm air rises up and cold air from the surrounding areas rushes in to fill its place then this sets up _____ in air.

(a) Conduction
(b) Convection
(c) Radiation
(d) Agitation

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Q98. Which of the statements given below are correct?

A) In 2018 IPL auctions, Sunrisers Hyderabad retained Steve Smith.

B) Lewis Hamilton won the Formula One 2017 Japanese Grand Prix.

C) Ma Long won the 2017 San Marino and Rimini's Coast Motorcycle Grand Prix.

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

Q99. In Microsoft Word, _____ view enables us to view our document as it would appear in a web browser such as the Internet Explorer.

(a) Web Layout
(b) Normal Layout
(c) Reading Layout
(d) Print Layout

Q100. Which organization will launch two missions named GOLD and ICON to explore the ionosphere?

(a) National Aeronautics and Space Administration (NASA)
(b) Indian Space Research Organisation (ISRO)
(c) China National Space Administration (CNSA)
(d) European Space Agency (ESA)

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) inundate

The correct answer is '1'

Key Points

• The correct spelling is 'inundate'

• The meaning of the given word is- 'If an area of land is inundated, it becomes covered with water.'

• Let's see an example-

• Their neighborhood is being inundated by the rising waters of the Colorado River.

Q2. Answer: (c) CBA

The correct answer is 'CBA'

Key Points

• In the fixed sentence, the last word is 'study' hence, after we need to write an object that can be a noun/pronoun/gerund the noun is written only in the 'C' part i.e. 'logic' hence it will be the first part.

• 'may' is the last word of the first part hence after this we need a main verb which is written in part 'b' i.e. 'become'

• So according to the correct logic is- CBA

• Although not all those who study logic or philosophy may become philosophers, they become better thinkers and leaders.

Q3. Answer: (d) no improvement

The correct answer is 'No improvement'

Key Points

• According to grammar, the given sentence is a conditional sentence of the third type in which the structure is- If + had + V3... Subject + would + have + V3.

• Hence, according to this structure, the given sentence is correct.

• Let's see an example-

• If it had rained, you would have gotten wet.

So the correct sentence is- If all of us had been philosophical thinkers, we would not have been deceived by scheming politicians all these years.

Q4. Answer: (c) was balancing

The correct answer is 'was balancing'

Key Points

• According to grammar, whenever the subject is singular we need a singular verb, and when the subject is plural use the plural verb.

• In the given sentence, the subject is 'it' that is singular in number. So, 'were' here is incorrect.

So the correct sentence is- Whether it was balancing the budget or the day-to-day menu, grandma was the expert.

Q5. Answer: (d) Console

The correct answer is 'console'

Key Points

• Let's see the meaning of the given words-

• Arouse→ is a verb that means 'provoke to anger or other strong emotion.'

• Pique→ means 'feel irritated or resentful'

• Fluster→ means 'agitated or confused'

• Console→ means 'sympathy or gives consolation to someone.'

• So according to the meaning of the given words, the correct answer is 'console'

Q6. Answer: (b) Slacken

The correct answer is 'Slacken'

Key Points

• Let's see the meaning of the given words-

• Expedite→ means 'cause to be accomplished more quickly'

• Slacken→ means 'not taut or held tightly in position; loose'

• Impel→ means 'force or urge to do something.'

• Spur→ means 'a short branch road or railway line.'

• So according to the meaning of the given words, the correct answer is 'Slacken'

Q7. Answer: (a) Used to apologize for swearing

The correct answer is 'used to apologize for swearing'

Key Points

• The meaning of the given idiom 'Excuse my French' is 'used to apologize for swearing.'

• Let's see an example-

• Pardon/Excuse my French, but that's a damned shame!

Q8. Answer: (d) To stop helping someone, especially when the support is needed.

The solution is in Hindi. Read it online.

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Q9. Answer: (c) certainly

The correct answer is Option 3)

Key Points

• Certainly is an adverb. You use certainly to emphasize what you are saying when you are making a statement. Here it is use to qualify the verb 'formed'

• Certain is an adjective. If you are certain about something, you firmly believe it is true and have no doubt about it. If you are not certain about something, you do not have definite knowledge about it.

• Certainty is a noun and is the state of being definite or of having no doubts at all about something.

• Since, here we have to use an adverb to qualify a verb, certainly will be the appropriate answer.

Q10. Answer: (a) into

The correct answer is Option 1)

Key Points

• Into: If you put one thing into another, you put the first thing inside the second.

• On: If someone or something is on a surface or object, the surface or object is immediately below them and is supporting their weight.

• Upon: If one thing is upon another, it is on it.

• To: You use to to indicate who or what an action or a feeling is directed towards.

• Since we are referring to putting an arm inside the sleeves 'into' will be the most appropriate answer.

Q11. Answer: (c) no

The correct answer is Option 3)

Key Points

• No one is a pronoun which means not a single person, or not a single member of a particular group or set.

• Negative is an adjective. A fact, situation, or experience that is negative is unpleasant, depressing, or harmful. Negative one will not make any sense.

• Never is an adverb. Never means at no time in the past or at no time in the future. Never one is also contextually wrong.

• You use nor after a negative statement in order to indicate that the negative statement also applies to you or to someone or something else or You use nor after a negative statement in order to introduce another negative statement that adds information to the previous one.

• We are referring to not even a single person 'no one' will be right to use here.

Q12. Answer: (c) individuality

The correct answer is Option 3)

Key Points

• Peculiar is an adjective. If you describe someone or something as peculiar, you think that they are strange or unusual, sometimes in an unpleasant way.

• We need a noun that will be qualified by an adjective.

• An individual is a noun which means a person.

• Individuals is the plural form of individual.

• The individuality of a person or thing consists of the qualities that make them different from other people or things. It is an uncountable noun.

• If you describe someone as an individualist, you mean that they like to think and do things in their own way, rather than imitating other people.

• Since we are referring to qualities i.e. habitual habits, individuality is correct to use here.

Q13. Answer: (a) hence

The correct answer is hence

Key Points

• Meaning of the given options:

• Hence: You use hence to indicate that the statement you are about to make is a consequence of what you have just said.

• If: You use if in conditional sentences to introduce the circumstances in which an event or situation might happen, might be happening, or might have happened.

• But: You use but to introduce something which contrasts with what you have just said, or to introduce something which adds to what you have just said.

• Also: You can use also to give more information about a person or thing, or to add another relevant fact.

Now, look at the following points-

• Thus, as per the given context 'hence' will be the correct option

• As it concludes the statement given before the blank that Never doing a thing twice alike would result in a person being a new person each succeeding moment.

Q14. Answer: (a) Pharaoh

The correct answer is 'Pharaoh'

Key Points

• The correct spelling is 'Pharaoh'

• The meaning of the given word is- 'the title of the kings of ancient Egypt'

Q15. Answer: (b) He reminded me that he had often told me not to play in the dark.

The correct answer is 'He reminded me that he had often told me not to play in the dark.'

Key Points

• In the given sentence, we have to use 'remind' as the reporting verb.

• The structure for the verb is- Remind + someone + (that) + clause

• Let's see an example-

• They reminded me that there is a party tonight.

So the correct Indirect speech is- He reminded me that he had often told me not to play in the dark.

Additional Information

• If the reporting verb is in the past tense and the reported speech is not an idiom/phrase/universal truth/routine/historical fact etc., the following changes will take place in the tense, time, and place of the reported speech.

DIRECT SPEECH	INDIRECT SPEECH
Simple Present	Simple Past
Simple Past	Past Perfect
Present Continuous	Past Continuous
Past Continuous	Past Perfect Continuous
Present Perfect	Past Perfect
Past Perfect	No change
Present Perfect Continuous	Past Perfect Continuous
Past Perfect Continuous	No change
Will/Shall/Can/May	Would/Should/Could/Might
Now	Then
Today	That day
Tomorrow	The next day/The following day
Yesterday	The previous day
Tonight	That night
Hence	Thence
Ago	Before
Last	The previous
Here	There
This	That
These	Those

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Q16. Answer: (d) The President was shot by the assassin.

The correct answer is 'The President was shot by the assassin.'

Key Points

• In the given sentence, the subject is 'the assassin' and the object is 'the president'

• The verb of the sentence is 'shot' that is in the past tense. Hence, in the passive voice, the tense remains the same.

• So, in the passive voice, the object of the sentence becomes the subject and the subject becomes the object.

So the correct passive is- The President was shot by the assassin.

Additional Information

Tense	Active voice	Passive voice
Simple Present	Verb: First form Example: He speaks Marathi.	Verb: is/am/are+past participle form of the verb Example: Marathi is spoken by him.
Present continuous tense	Verb: is/am/are+ing form of verb Example: You are making a flower pot.	Verb: is/am/are+being+past participle form of the verb. Example: A flower pot is being made by you.
Present perfect	Verb: has/have+past participle form of the verb Example: I have written a book.	Verb: has/have+been+past participle form of the verb. Example: A book has been written by me.
Simple past	Verb: past tense form of the verb. Example: I wrote a book.	Verb: was/were+past participle form of the verb. Example: A book was written by me.
Past continuous tense	Verb: was/were+ing form of the verb Example: She was writing a book.	Verb: was/were+being+past participle form of the verb. Example: A book was being written by her.
Past perfect	Verb: had+past participle form of the verb Example: I had finished the project.	Verb: had+been+past participle form of the verb. Example: The project had been finished by me.
Simple future	Verb: will/shall+first form of the verb Example: He will solve the problem.	Verb: will/shall+be+past participle form of the verb. Example: The problem will be solved by him.
Future perfect	Verb: will/shall+have+past participle form of the verb. Example: He will have solved the problem.	Verb: will/shall+been+past participle form of the verb. Example: The problem will have been solved by her

Q17. Answer: (d) QRP

The correct answer is 'QRP'

Key Points

• A sentence can't end with rather than. It will be incomplete. R can't be last. Rule out 2). Q = the likely or probable. These are adjectives and must be followed by the noun associated with them. Thus, R (conclusion) must immediately follow Q. Option 4) QRP is the correct answer.

An inference is the likely or probable conclusion rather than the direct, logical one.

Q18. Answer: (d) Inferior

The correct answer is 'Inferior'

Key Points

• The correct answer for the word opposite in meaning to "Peer" is: Inferior.

• The word "Peer" refers to someone who is equal in social status, age, or abilities. It indicates a person who belongs to the same group or level as others, often implying a sense of similarity or equality.

• For example, if two individuals are of the same age and have similar qualifications, they can be considered peers.

• On the other hand, "Inferior" is the opposite of "Peer." It means lower in rank, status, quality, or ability. When someone is referred to as inferior, it suggests that they are of a lower position or level compared to others. For instance, if one person is highly skilled and accomplished while another is less experienced and less competent, the latter can be considered inferior to the former.

• Now, let's examine the other options:

• Equal: This option is not the opposite of "Peer" but rather a synonym. "Equal" refers to someone or something that is the same in quantity, degree, value, or status. It indicates a sense of similarity or equivalence.

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• Look: This option does not represent the opposite meaning of "Peer." "Look" can refer to the act of visually perceiving something or the physical appearance of someone. It does not carry an opposite meaning in relation to "Peer."

• Match: This option does not convey the opposite meaning of "Peer" either. "Match" can refer to something that corresponds or goes well with another thing. It can also refer to a competition or contest between two individuals or teams.

• To summarize, the correct opposite for "Peer" is "Inferior," as it denotes a lower rank or position. The other options, "Equal," "Look," and "Match," do not represent the opposite meaning of "Peer" but rather carry different meanings.

Q19. Answer: (d) Spite

The correct answer is 'Spite'

Key Points

• Let's see the meaning of the given words-

• Altruism→ means 'selfless concern for the well-being'

• Charity→ means 'an organization set up to provide help and raise money for those in need'

• Kindness→ means 'the quality of being kind'

• Compassion→ means 'sympathetic pity and concern for the sufferings or misfortunes of others.'

• Spite→ means 'a desire to hurt, annoy, or offend'

• So according to the meaning of the given words, the correct answer is 'Spite'

Q20. Answer: (c) Invent

The correct answer is 'Invent'

Key Points

• Let's see the meaning of the given words-

• Excogitate→ means 'think out, plan or devise'

• Communication→ means 'the action of communicating'

• Die→ means 'stop living or become extinct'

• Invent→ means 'create or design'

• Ignore→ means 'disregard intentionally'

• So, according to the meaning of the given words, the correct answer is 'Invent'

Q21. Answer: (b) Inactive

The correct answer is 'Inactive'

Key Points

• Let's see the meaning of the words-

• Abeyance→ means 'a state of temporary disuse or suspension'

• Revival→ means 'an improvement in condition or strength of something'

• Inactive→ means 'not active, working or having an effect'

• Operation→ means 'the action or process of operating'

• Continuation→ means 'the action of continuing or state of being continued.'

• So, according to the meaning of the given words, the correct answer is 'Inactive'

Q22. Answer: (d) incomplete

The correct answer is 'incomplete'

Key Points

• According to grammar, the given blank is to be filled with 'adjective' because before the blank there is a linking verb 'are' and we know that when the subject and the linking verb are used we need to write a subject complement that gives some extra information about the subject.

• Let's see the options-

• In option 3, 'complete' is an adjective but we cannot use this because this makes the sentence contextually incorrect because we are talking about 'without education' hence, it doesn't make any sense that 'without education we are complete' so this option is eliminated.

• In option 2, uncomplete is not a word so this cannot be the correct answer.

• In option 1, 'someone' is a determiner hence we can not use this also.

• So the correct answer is 'Option 4' which is 'Incomplete'

So the correct sentence is- Without education we are incomplete and our lives are useless without any meaning attached to it.

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Q23. Answer: (c) principle

The correct answer is 'principle'

Key Points

• According to grammar, in the given blank we need a noun to make a prepositional object because before the blank there is a preposition.

• Let's see the meaning of the words and their parts of speech-

• Principal→ means 'first in order or importance'

• Dusty→ means 'covered with or resembling dust'

• Principle→ means 'a fundamental truth or proposition serving as the foundation for belief'

• Enthusiasm→ means 'intense enjoyment, interest, or approval'

• So according to the meaning of the given word, the correct answer is 'Principle'

So the correct sentence is→ He is a man of principle

Q24. Answer: (c) 3

The correct answer is Option 3 i.e. 'error lies in part 3 of the sentence.'

Key Points

In a given sentence, the usage of 'then' is incorrect Instead of it use 'than'

• According to the grammar rule, 'Than' is a conjunction which is used to show the comparison, and 'Then' is an adverb that is used to show the point of time.

• Let's see some examples:

• I spent years on the dole trying to get bands together and I never worried about money then.

• The arrangement was more a formality than a genuine partnership of two nations.

So the correct sentence is:

In 1961, a meteoroid was defined as "a solid object moving in interplanetary space, of a size considerably smaller than an asteroid and considerably larger than an atom".

Q25. Answer: (b) 2

The correct answer is '2' i.e. error lies in part 2 of the sentence.

Key Points

In part 2 of the sentence, the usage of 'lay' is incorrect Instead, use 'laid'

• According to grammar, the subject of the sentence is a noun in the given sentence the subject is 'punch' and the object of the sentence is 'him' in the given sentence we need to use the past tense because the action is already performed.

• 'lay' is a transitive verb and the verb of this verb is 'lay=> laid=> laid=> laying' this means 'to put something down'

• Let's see an example-

• They have laid the table, let's have dinner.

So the correct sentence is- His hard punch laid him on the road.

• The verb 'lie' is an intransitive verb and the verb forms of this verb are 'Lie=> Lay=> Lain=> Lying*' and the meaning of this verb is 'to fall'*

• Let's see an example-

• He lays down. (here the verb lays is an intransitive verb and down is an adverb that gives the reply of where?)

Q26. Answer: (d) Ladyfinger : Vegetable

Here, Pattern is such that second word defines the category and the first word defines the example of that category i.e.

Grapes : Fruit → Grapes is a type of or example of fruit.

Let’s check all the options.

Stem : Potato → Potato is a type of stem. Here potato is related to stem but stem is not a type of potato. So, this is not the correct answer.

Ginger : Branch→ Ginger is a type of stem not branch.

Tomato : Red → Colour of Tomato is red. Here red is not type of tomato.

Ladyfinger : Vegetable → Ladyfinger is a type of vegetable

Hence,Ladyfinger : Vegetable is the correct answer.

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Q27. Answer: (a) 35 : 48

(42) : (42 + 13) :: (35) : (35 + 13)

→ 42 : 55 :: 35 : 48

Hence, the correct answer is 35 : 48.

Q28. Answer: (d) OQR

The pattern followed here is:

Similarly,

From the given figure it is clear that the combination will be OQR.

Hence the correct answer is "OQR".

Q29. Answer: (b) Skating - Ring

The logic here is as follows:

Cricket – Pitch → Cricket is played on a Pitch

Hockey – Ground → Hockey is played on the Ground

Wrestling – Arena → Wrestling is played in the Arena

Skating - Ring → Skating is not played in the Ring (It is played in Rink)

Hence, the correct answer is "Skating - Ring".

Q30. Answer: (d) 15 – 19

1) (13) → (13 + 2) = 15

2) (17) → (17 + 2) = 19

3) (11) → (11 + 2) = 13

4) (15) → (15 + 4) = 19

So, “15 - 19” is the odd letters from the given alternatives.

Hence, the correct answer is "15 - 19".

Q31. Answer: (b) BGN

1) K + 6 = Q, Q + 6 = W

2) B + 5 = G, G + 7 = N

3) M + 6 = S, S + 6 = Y

4) N + 6 = T, T + 6 = Z

So, “BGN” are the odd letters from the given alternatives.

Hence, the correct answer is "BGN".

Q32. Answer: (a) Glider

According to dictionary order, words will be arranged as follows.

2) Glider

4) Glisten

1) Glorious

3) Golden

5) Grapes

Hence, The correct answer is "Glider".

Q33. Answer: (c) 118

The pattern followed here is:

1) 21 + 11 = 32

2) 11 + 32 = 43

3) 32 + 43 = 75

4) 43 + 75 = 118

Hence, the missing number is 118.

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Q34. Answer: (a) JU

The pattern followed here is:-

Hence, the correct answer is "JU".

Q35. Answer: (c) 25

The Figure is as follows:

Clearly we see a ΔABC

ΔABC,

AB = 24 M, BC = (31 – 24 = 7) M, AC = ?

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

$AC^2 = (24^2 + 7^2)$ M

$AC^2 = (576 + 49)$ M

$AC^2 = 625$ M

$AC = \sqrt{625}$M

AC = 25 M

So, the distance (in metres) between the starting point and shop A is 25 Metres.

Hence, the correct answer is "25".

Q36. Answer: (b) Navy

By solving options:

1) Ail – Ancillary - Can be formed

2) Navy – Ancillary - Cannot be formed because the letter 'v' is not present in 'Ancillary'

3) Nill – Ancillary - Can be formed

4) Any – Ancillary - Can be formed

Hence, the correct answer is "Navy".

Q37. Answer: (b) PUXJV

The pattern followed here is,

Hence, "MRUGS" written in that code language is "PUXJV".

Q38. Answer: (c) 18

Given:-

Equation → 20 × 12 ÷ 3 - 40 + 12

Symbols	÷	•	•	×
Code	•	×	÷	•

After replacing the symbols with their code,

New Equation → 20 - 12 + 3 × 40 ÷ 12

Now after applying BODMAS Rule and solving the equation, we get:-

20 - 12 + 3 × 40 ÷ 12

20 - 12 + 3 × 3.33

20 - 12 + 9.99 (Approximate value of 9.99 ~ 10)

20 - 12 + 10

20 + 10 - 12

30 - 12 = 18

Hence, the correct answer is "18".

Q39. Answer: (c) ÷ and ×

1) 14 ÷ 10 - 20 × 40 + 34 = 1.4 - 20 × 40 + 34 = -122.6

2) 14 - 10 × 20 ÷ 40 + 34 = 14 - 10 × 0.5 + 34 = -25

3) 14 × 10 ÷ 20 - 40 + 34 = 14 × 0.5 – 40 + 34 = 7 + 34 – 40 = 1

4) 14 ÷ 10 × 20 + 40 - 34 = 1.4 × 20 + 40 – 34 = 34

Hence, the correct answer is "÷ and ×"

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Q40. Answer: (c) -10

The pattern followed here is,

30% 6 → 30 ÷ 6 = 5 → -5

10% 5 → 10 ÷ 5 = 2 → -2

10% 2 → 10 ÷ 2 = 5 → -5

Similarly,

80% 8 → 80 ÷ 8 = 10 → -10

Hence, the correct answer is "-10".

Q41. Answer: (d) AAAAAaA

According to the sequence, ‘a’ is shifting one position ahead of its next position at every step. Thus next term would be ‘AAAAAaA’.

Hence, the correct answer is "AAAAAaA".

Q42. Answer: (d) 200 km North

Based on information given direction diagram can be traced as,

Therefore distance between Starting point and Ending point is (80 km + 120 km) = 200 km North.

Hence, correct answer is "200 km North".

Q43. Answer: (d) Neither conclusion I nor conclusion II follows

The least possible Venn diagram for the given statements is as follows,

Conclusion I: Some ogres are magic → Doesn't Follows (It's a possibility)

Conclusion II: All magic are ogres → Doesn't Follows (As no magic are genies so that's why all magic are ogres can't be possible)

Hence, the correct answer is "neither conclusion I nor conclusion II follows."

Q44. Answer: (b) D

The Figure is as follows:

So, letter ‘D’ represents Asians who are not Athletes.

Hence, the correct answer is "D".

Q45. Answer: (b) LGN

The pattern is,

Hence, the correct answer is "LGN".

Q46. Answer: (c) 122

The pattern followed here is,

144 – 5 = 139

139 – 6 = 133

133 – 5 = 128

128 – 6 = 122

122 – 5 = 117

117 – 6 = 111

Hence, the missing number is 122.

Q47. Answer: (d) (34, 112, 113)

The logic is,

16 × 3 = 48 → 48 + 1 = 49

23 × 3 = 69 → 69 + 1 = 70

17 × 3 = 51 → 51 + 1 = 52

34 × 3 = 102 (112) => 102 + 1 = 103 (113)

So, the odd one is (34, 112, 113).

Hence, the correct answer is "(34, 112, 113)".

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Q48. Answer: (a) [figure]

Given the figure,

Hence, the correct answer is "Option 1".

Q49. Answer: (a) [figure]

and

must be the opposite. But in option (1), they are adjacent.

Hence, the correct answer is "option 1".

Q50. Answer: (b) 86, 44, 20, 67

V → 86, 89

A → 03, 44,

M → 00, 20

P → 67

Hence, the answer is 86, 44, 20, 67.

Option 86, 44, 20, 67 is the correct answer.

Q51. Answer: (b) 900, 9

Concept used:

Place value is the value of each digit in a number.

Face value is the actual value of the digit whereas place value is the position of a digit in a number.

Calculation:

Place value of 9 in 68956 = 9 × 100 = 900

Face value of 9 in 68956 = 9

Therefore Option 2 is the correct answer.

Q52. Answer: (d) 6

Given:

71 × 72 × 73 × 74 × 76 × 77 × 78 × 79

Concept used:

The digit placed at the unit place is also called as the digit at ones place.

Calculation:

To find unit digit multiply their unit digits = 1 × 2 × 3 × 4 × 6 × 7 × 8 × 9 = 24 × 42 × 72

To find unit digit multiply their unit digits = 24 × 42 × 72 = 4 × 2 × 2 = 16

So, unit digit = 6

Therefore The correct answer is 6.

Q53. Answer: (c) 1021

Given:

1 + 2^2 + 2^3 + 2^4 + ……. + 2^9

Calculation:

According to the question:

=> 1 + 22 + 23 + 24 + ……. + 29

=> 1 + (22 + 23 + 24 + ……. + 29)

In brackets we have Geometric Progression. So we solve it first.

=> a1 = 2^2 = 4

=> a2 = 2^3 = 8

=> r = 8/4 = 2

No. of terms = 8

Sum of G.P = a1 (r^n - 1)/(r – 1)

=> 4 (2^8 – 1)/(2 – 1)

=> 4 × 255 = 1020

So, 1 + 2^2 + 2^3 + 2^4 + ……. + 2^9 = 1 + 1020 = 1021

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Therefore The correct answer is 1021.

Q54. Answer: (c) 128

Given:

a2 + b2 = 32; a + b = 8

Formula used:

(a + b)2 = a2 + b2 + 2ab

a3 + b3 = (a + b) (a2 + b2 – ab)

Calculation:

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

$\Rightarrow (8)^2 = 32 + 2ab$

$\Rightarrow 2ab = 64 – 32 = 32$

$\Rightarrow ab = 16$

So, $a^3 + b^3 = (a + b) (a^2 + b^2 – ab) = (8) \times (32 – 16) = 8 \times 16 = 128$

Therefore The correct answer is 128.

Q55. Answer: (d) in-center

Calculation:

The line bisecting all the three angles of a triangle meets at a common point. This point is known as In-center.

Q56. Answer: (c) centroid

Calculation:

The point of the intersection of three medians is known as the Centroid.

Q57. Answer: (d) 400

GIVEN:

P = 5X and Q = X

CALCULATION:

Required % = (P - Q)/Q × 100 = (5X - X)/X × 100 = 400%

Therefore The correct answer is 400%.

Q58. Answer: (c) 42

Given:

Ratio of three numbers = 2 : 5 : 7

Product of numbers = 1890

Calculation:

Let three numbers be 2k, 5k and 7k.

$\Rightarrow 2k \times 5k \times 7k = 1890$

$\Rightarrow k^3 = 27$

$\Rightarrow k = 3$

$\Rightarrow a + b + c = 2k + 5k + 7k = 14k = 14 \times 3 = 42$

Therefore The correct answer is 42.

Q59. Answer: (b) 9 : 4

Calculation:

Ratio of profit = P’s capital × time: Q’s capital × time

Ratio of profit = 14000 × 36 : 8000 × 28

Ratio of profit = 9 : 4

Therefore The correct option is 2.

Q60. Answer: (b) 250

Given:

Price of 100 cars = Rs. 40000

Calculation:

Total numbers of cars = 100
Remaining cars = (100 - 60) = 40
Average Price of remaining cars = {40000 – (500 × 60) / (100 – 60)}
=> (40000 – 30000)/40 = 10000/40 = 250
Therefore The correct answer is 250.

Q61. Answer: (d) 35000

Given:
S.I = Rs. 16800
Formula used:
S.I. = (P × R × T) /100
Calculation:
(P × R1 × T1) /100 + (P × R2 × T2) /100 = S.I.
=> (P × 8 × 3) /100 + (P × 12 × 2) /100 = 16800
=> 48P/100 = 16800
=> P = 1680000/48
=> P = Rs.35000
Therefore The correct answer is Rs.35000.

Q62. Answer: (a) 1300

Given:
S.P = Rs.1144; Loss% = 12%
Calculation:
Selling price of an article = 1144
Loss % = 12% it means S.P. = 100 – 12 = 88%
=> 88% = 1144
=> 1% = 1144/88 = 13
C.P. of article = 100% = 100 × 13 = Rs.1300
Therefore The correct answer is Rs.1300.

Q63. Answer: (a) 15%

Given:
M.P = 800; 1st Discount % = 15%
Calculation:
Price after 1^(st) discount = 85% of 800 = = 17/20 × 800 = 680
Let 2^(nd) discount is a%
Price after 2nd discount = (100 – a)% of 800
=> (100 – a)/100 × 680 = 578
=> (100 – a) = 57800/680 = 85
=> a = 100 – 85 = 15%
Therefore The correct answer is 15%.

Q64. Answer: (a) Only I

Calculation:
Statement I. cbrt512 × √256 > cbrt343 × √289 means 8 × 16 > 7 × 17 that is 128 > 119.
Statement II. √121 + cbrt1331 > cbrt125 × √125 means 11 + 11 > 5 × 5√5 is 22 > 25√5.
Therefore Statements I is true.

Q65. Answer: (c) 42

Shortcut Trick
Total work (LCM of 28, 21, 84) = 84 units.
Efficiency of Pipe A = 3, Pipe B = 4, and All pipes together = 1.
Efficiency of Emptying Pipe C = (3 + 4) − 1 = 6 units/hr.
Time taken by Pipe C alone = 84 ÷ 6 = 14 hours.

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Capacity of the cistern = 14 hours × 3 gallons/hr = 42 gallons.

Therefore The correct answer is 42 gallons.

Alternate Method

Given: Filling time of A = 28 hr, B = 21 hr, Combined (A + B − C) = 84 hr. Emptying rate of C = 3 gallons/hr.

Person/Pipe	Time (hr)	Total Work (LCM)	Efficiency
Pipe A (Fill)	28	84 units	3
Pipe B (Fill)	21	4	
Combined (A+B−C)	84	1	

=> Efficiency of Pipe A + Efficiency of Pipe B − Efficiency of Pipe C = Combined Efficiency

=> 3 + 4 − Efficiency of Pipe C = 1

=> 7 − Efficiency of Pipe C = 1

=> Efficiency of Pipe C = 6 units/hr

=> Time taken by Pipe C to empty the cistern = Total Work ÷ Efficiency = 84 ÷ 6 = 14 hours

=> Total Capacity = Time × Rate per hour = 14 × 3

=> Total Capacity = 42 gallons

Therefore The correct answer is 42 gallons.

Additional Information

Pipes and Cisterns Logic

Filling pipes have positive efficiency (+), while emptying pipes (leaks) have negative efficiency (−).

Capacity Calculation

The actual capacity is found by multiplying the time taken to fill/empty the tank by the flow rate (gallons or litres per hour).

Combined Efficiency Formula

1/T_(total) = 1/T1 + 1/T2 − 1/T_(leak), where T is the time taken by individual pipes.

Q66. Answer: (a) 60

Given:

Speed of the train = 36 km/hr

Calculation:

Speed of train = Distance/Time

=> 36 × 5/18 = 600/Time

=> Time = 60 sec

Therefore The correct answer is 60 sec

Q67. Answer: (a) 2014

Calculation:

No. of students failed in 2012 compared to previous year = 7500 - 2000 = 5500

No. of students failed in 2013 compared to previous year = 6500 - 7500 = -1000

No. of students failed in 2014 compared to previous year = 9000 - 6500 = 2500

No. of students failed in 2015 compared to previous year = 2500 - 9000 = -6500

No. of students failed in 2016 compared to previous year = 1000 - 2500 = -1500

No. of students failed in 2017 compared to previous year = 1000 - 1000 = 0

So 2012 failures greater than that of the 2011 but it is not in option so answer is = 2014.

Therefore The correct option is 1.

Q68. Answer: (b) 4500

Calculation:

Difference in failures between 2011 and 2013 = 6500 - 2000 = 4500

Therefore The correct answer is 4500.

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Q69. Answer: (c) 20%

Calculation:

The no. of failures in 2014 were greater than that in 2012:

=> (9000 - 7500)/7500 × 100 = 20%

Therefore The correct answer is 20%.

Q70. Answer: (a) 1500

Calculation:

Average no. of failures in last 3 years = (2500 + 1000 +1000)/3

=> 4500/3 = 1500

Therefore The correct answer is 1500.

Q71. Answer: (a) 9

Given:

Area of Square = 40.5 cm^2

Calculation:

Diagonal of square (D) = $a\sqrt{2}$

=> $D^2 = (a\sqrt{2})^2 = 2a^2$

=> $D^2 = 2 \times 40.5 = 81$

=> D = 9 cm

Therefore The correct answer is 9 cm.

Q72. Answer: (c) 36°

Given:

Number of sides (N) = 10

Calculation:

Exterior angle = (360°)/N= (360°)/10 = 36°

Therefore The correct answer is 36°.

Q73. Answer: (d) 14

Given:

Total surface area of a hemisphere = 462 cm2

Calculation:

Total Surface Area of Hemisphere = 462

=> $3\pi r^2 = 462$

=> $3 \times 22/7 \times r^2 = 462$

=> $r^2 = 49$

=> r = 7

Diameter = 2 × 7 = 14 cm

Therefore The correct answer is 14 cm.

Q74. Answer: (a) -1/2√3

Calculation:

(sin 60° - 2/√3) = √3/2 - 2/√3 (sin 60° = √3/2)

=> (3 - 4)/(2√3) = -1/2√3

Therefore The correct answer is -1/2√3.

Q75. Answer: (b) 24/25

Given:

ΔPQR is right angled at Q.

Tan P = 24/7

Calculation:

tan P = 24/7 = QR/PQ

=> $(PR)^2 = (PQ)^2 + (QR)^2$

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=> $(PR)^2 = (24)^2 + (7)^2 = 576 + 49 = 625$

=> PR = 25

Cos R = QR/PR = 24/25

Therefore The correct answer is 24/25.

Q76. Answer: (b) Movement of workforce from the industrial sector to the service sector

Deindustrialisation means movement of the workforce from the industrial sector to the service sector.

• Deindustrialisation is the opposite of industrialisation.

• It is the process of social and economic change due to the reduction or removal of industrial activity in a particular region or country, especially manufacturing industry.

• It is a shift from manufacturing sectors to the service sectors, so that manufacturing has a lower share of total employment.

Few examples include

• In the U.K., manufacturing sector, as a share of real GDP, has fallen from 33% in 1970 to 12% in 2010.

• In the U.S., deindustrialization has seen jobs in the manufacturing sector fall from 19 million in 1979 to 12 million in 2016.

Q77. Answer: (c) High level of illiteracy

The correct answer is High level of illiteracy.

Key Points

• The Indian workers are less skilled than the workers of western countries because of the high level of illiteracy.

• Illiteracy is a poison for the development of any country. India's current literacy rate of 74.04% is still below than the world's average literacy rate of 84%.

• More literacy would mean more knowledgeable and skilled people in a country which is usually termed as human capital.

• Literacy enables a person to understand things better, so they enjoy a better socio-economic life and helps in the overall development of the nation.

Q78. Answer: (d) Sanskrit

Junagadh inscription is written in the Sanskrit language.

• It is famously known as Junagadh rock inscription of Rudradaman or Girnar Rock inscription of Rudradaman.

• It was inscribed by the Western Kshatrap King, Rudradaman I.

• It dates back to 150CE and is located in Girnar near Junagadh, Gujarat, India.

• The inscriptions are also famous for its poetic meter.

• These rocks contain inscriptions of Ashoka, Rudradaman I and Skandagupta.

Q79. Answer: (b) Gopal Krishna Gokhale

• Gopal Krishna Gokhale is considered as a political guru of Mahatma Gandhi.

• Gokhale (1866 - 1915), was one of the most important leaders of the Indian National Congress.

• He was a socio-political leader during the Indian Independence Movement.

Q80. Answer: (c) Both the pressure and breakdown of radioactive substances

The main causes of temperature rise in the interior of the Earth are both the pressure and the breakdown of radioactive substances.

• The temperature of the Earth increases from the Crust to the Core. It is about 600°C at a depth of 20 Km, 1000-1500°C at 100Km and around 4000-5000°C in the Core.

• The heat energy released by radioactive decay of elements such as uranium and thorium accounts for about 50% of the heat given off by the Earth.

Important Points

The Earth's interior temperature rises primarily due to two key factors:

Radioactive Decay: Radioactive isotopes, such as uranium and thorium, present within the Earth's mantle, release heat energy as they decay. This ongoing process generates a significant amount of heat over geological time.

Pressure: At greater depths within the Earth, the immense pressure caused by the weight of overlying rocks and material compacts and compresses the matter. This compression leads to an increase in temperature, as it raises the kinetic energy of atoms and molecules.

Together, the breakdown of radioactive substances and pressure result in a gradual increase in temperature as you move deeper into the Earth. This internal heat plays a crucial role in geological processes and the Earth's overall dynamics.

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Q81. Answer: (c) Barren and Narcondam

Barren and Narcondam are the two volcanic islands located in the Indian Territory.

Barren Island:

• It is located in the Andaman Sea.

• It is dominated by Barren Volcano which is the only confirmed active volcano in South Asia.

• This volcano is also the only active volcano along a chain of volcanoes from Myanmar to Sumatra.

Narcondam Island:

• It is located in the Andaman Sea.

• The geological survey of India has classified it as a Dormant Volcano.

Q82. Answer: (c) Bharatanatyam

The correct answer is Bharatanatyam.

Key Points

• Bharatanatyam

• Bharatanatyam of Tamil Nadu in Southern India has grown out of the art of dancers dedicated to temples and was earlier known as Sadir or Dasi Attam.

• It is the first of India's traditional dances to be refashioned by theatre artists and to be exhibited widely both at home and abroad.

• The music of Bharatanatyam belongs to the Carnatic system of southern India.

• The musicians accompanying a dance recital include at least one vocalist, a Mridangam (drum)-player, a flutist or violinist, or Veena (lute)-player.

• The group also includes a Nattuvanar, or dance conductor, who recites the dance syllables as he plays a pair of small bronze cymbals.

Additional Information

• The list of classical dances in India is given below:

List of Classical dances in India	State of Origin
Bharatnatyam	Tamil Nadu
Kathak	Uttar Pradesh
Kuchipudi	Andhra Pradesh
Odissi	Odisha
Kathakali	Kerala
Sattriya	Assam
Manipuri	Manipur
Mohiniyattam	Kerala

Q83. Answer: (c) China

China has made world's first all-electric ship, which can travel up to 80 Km with 200 tons cargo after a two-hour charge.

• It has been manufactured by the Guangzhou Shipyard International Company Ltd.

• It was launched in Guangzhou in South China’s Guangdong Province.

• It is a 70.5-metre long ship and weighs about 600 tonnes.

• It is powered by a 26-tonne lithium battery.

• It produces zero emission, including carbon, sulphur, and PM2.5 as it does not use fossil fuels.

Q84. Answer: (c) Shamik Chaudhary

Shamik Chaudhry has been awarded the ‘German Green Talent Award 2017’.

• Shamik Chowdhury, an Indian Researcher, in 2017 was awarded the German Green Talent Award.

• He is among the 25 young researchers who have been conferred with the award.

• It was given to him by the German Federal Ministry of Education and Research for his new approach towards resource efficiency, sustainable development, cleaner production, and eco-innovation.

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Q85. Answer: (b) Colombo

Colombo is the commercial capital of Sri Lanka.

• A popular tourist destination, Colombo is on the west coast of Srilanka.

• Sri Jayawardenepura Kotte is the legislative capital of Srilanka.

Q86. Answer: (c) Angstrom

Generally, atomic radius is measured in Angstrom

• 1 Angstrom = 10^(-10) metre.

• The symbol for Angstrom is Å.

• Atomic radius is the total distance from the nucleus of an atom to the outermost orbital of its electron.

• Atomic radii can be measured by X-ray or any other spectroscopic methods.

Q87. Answer: (b) Only I and III

The correct answer is Only I and III.

Key Points

• Statement 1 is correct: Lead is getting reduced as it goes from an oxidation state of +2 in PbO to 0 in elemental Pb.

• Statement 2 is incorrect: Carbon is getting reduced (Carbon is actually oxidized, as it goes from an oxidation state of 0 in elemental carbon to +4 in CO2).

• Statement 3 is correct: Lead oxide is getting reduced as lead is reduced from +2 to 0, but carbon acts as the reducing agent.

Additional Information

• Reduction and Oxidation:

• Reduction is the process where a substance gains electrons, whereas oxidation is when a substance loses electrons.

• In the reaction, lead oxide (PbO) undergoes reduction by gaining electrons to form solid lead (Pb).

• Carbon (C) is oxidized to CO2, meaning it loses electrons in the process.

• Oxidizing and Reducing Agents:

• The reducing agent is the substance that donates electrons and gets oxidized. In this case, carbon is the reducing agent.

• The oxidizing agent is the substance that accepts electrons and gets reduced. Lead oxide acts as the oxidizing agent in this reaction.

• Lead Oxide in Metallurgy:

• In metallurgy, the extraction of metals like lead is often achieved by reducing their oxides with carbon or other reducing agents.

• Lead oxide (PbO) is reduced to lead (Pb) in the reaction by carbon in a furnace or smelting process.

• Common Reduction Reaction:

• This type of reaction is a redox reaction, where reduction and oxidation happen simultaneously.

• The process is common in the extraction of metals, where an oxide of the metal is reduced to its pure form.

Q88. Answer: (c) President of India

The correct answer is option 3, i.e. President of India.

President of India appoints Chairman of Union Public Service Commission in India.

• The responsibility to hold examinations for All India Services and group A and group B of central services is upon the Union Public Service Commission in India.

• It is the central recruiting agency in India.

• Part XIV of the Indian Constitution grants its Charter.

• Its headquarter is located at Dholpur House in New Delhi.

• Dr. Manoj Soni is the current chairman of the UPSC.

Q89. Answer: (b) Official language

Part of XVII of India Constitution deals with an official language.

• Part XVII is a compilation of rules and regulations concerned with the constitution of India.

• It contains Articles 343 to Article 351.

Chapter I	**LANGUAGE OF THE UNION**
Article 343	The official language of the union
Article 344	Commission and Committee of Parliament on official language

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CHAPTER II	REGIONAL LANGUAGES
Article 345	Official language or languages of a State
Article 346	The official language for communication between one State and another or between a State and the Union
Article 347	Special provision relating to language spoken by a section of the population of a State
CHAPTER III	LANGUAGE OF THE SUPREME COURT, HIGH COURTS, etc.
Article 348	Language to be used in the Supreme Court and in the High Courts and for Acts, Bills, etc.
Article 349	Special procedure for enactment of certain laws relating to language
CHAPTER IV	SPECIAL DIRECTIVES
Article 350	Language to be used in representations for redress of grievances
Article 350A	Facilities for instruction in mother-tongue at the primary stage
Article 350 B	Special Officer for linguistic minorities
Article 351	The directive for development of the Hindi language

Q90. Answer: (a) Emulsification of soaps

Breaking down of fats from large globules to smaller globules by Bile juice is similar to Emulsification of soaps.

• The liver secretes Bile. When bile leaves the liver, it gets stored in the gallbladder, before being released into the duodenum. When it gets released from the gallbladder, it breaks large fat globules into smaller particles, in the same way as soap breaks fat particles into small globules that are suspended in water and gets washed away. This is known as emulsification. It is important because fats are not soluble in water, yet the reaction of digestion must take place in a water solution.

• The process in which one liquid gets dispersed in a second immiscible liquid is called Emulsification.

• The cleansing action of soap is due to emulsification.

Q91. Answer: (b) Cork slice

Robert Hooke discovered cells by observing them in a cork slice.

• It was discovered by him in 1665.

• Under a microscope, he could only see honey- comb-like structures in a slice of cork.

• Since that was a dead tissue, he could only see the cell walls.

• He thus coined the term ‘Cell’.

Q92. Answer: (a) 2017-18 to 2019-20

In September 2017, Government of India approved the revamped ‘Khelo India Programme’ at a cost of Rs 1756 crore for the period 2017-18 to 2019-20.

• Khelo India Programme aims at mainstreaming sport as a tool for development of the individual, development of the community, economic development and national development.

• The Programme also provides Pan Indian Sports Scholarship scheme, which would cover 1,000 most talented young athletes each year across select sports disciplines. The selected athletes would receive an annual scholarship worth Rs. 5.00 lakh for 8 consecutive years.

• It also aims to promote 20 universities across the country as hubs of sporting excellence.

• It strives to promote “Sports for All” as well as “Sports for Excellence.”

Q93. Answer: (c) Rs 17,000 crore

In December 2017, as per the announcement made by the Finance Ministry, banks have lost nearly Rs 17,000 crore on account of frauds in the fiscal.

• Shiv Pratap Shukla, Minister of State for Finance, has informed Lok Sabha that the Indian Banks have lost Rs 16789 crore on account of frauds during the year 2016-17.

• The Reserve Bank of India (RBI) has furnished this information on the basis of fraud monitoring reports submitted by the scheduled commercial banks and select financial institutions.

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Q94. Answer: (c) Jammu and Kashmir

On 26 July 2017, the Parliament passed the Collection of Statistics (Amendment) Bill, 2017. This Bill extends the jurisdiction of the act to Jammu and Kashmir.

• This bill aims to amend the Collection of Statistics Bill, 2008.

• The 2008 bill facilitates the compilation of statistics associated with economic, social, scientific, demographic and environmental aspects, by both State, Central and local governments.

• It also contains clauses to protect the security of information and to appoint statistics officer.

Q95. Answer: (b) 8

The correct answer is 8

The effective resistance of two resistors 12 Ω and 24 Ω connected in parallel is 8 Ω.

The formula for effective resistance in parallel:

1/(Effective Resistance) = 1/(Resistance a) + 1/(Resistance b)

Here, 1/(Effective Resistance) = 1/(12) + 1/(24) = 1/(8)

Therefore, Effective Resistance = 8 Ω.

Q96. Answer: (a) Uniform speed

The correct answer is Uniform speed

Explanation:

If the Distance-Time graph is a straight inclined line then it represents uniform speed.

• A body is said to be in uniform motion when it covers an equal distance in equal time intervals.

• For example, if a body covers 20 meters in the first 10 seconds then it should cover 20 meters every ten seconds from there on. It will indicate that the body is in uniform motion.

• Constant speed is shown by the straight lines on the graph.

Q97. Answer: (b) Convection

The correct answer is Convection.

EXPLANATION:

When warm air rises up and cold air from the surrounding areas rushes in to fill its place then this sets up convection in air.

• When warm air rises, the air pressure at that place gets lowered. The cold air from the surrounding areas rushes in to fill its place. This sets up convection currents in the air.

• Wind currents are generated due to uneven heating on the earth.

• Convection is the process by which the transmission of heat takes place through a substance from one point to another due to the actual bodily movement of heated particles of the substance.

Q98. Answer: (b) Only B

Lewis Hamilton won the Formula One 2017 Japanese Grand Prix.

• The Formula One 2017 Japanese Grand Prix, a Formula One motor race, was held on 8 October 2017 at the Suzuka International Racing Course in Suzuka in the Mie Prefecture, Japan.

• Lewis Carl Davidson Hamilton, a British racing driver, races in Formula One for Mercedes AMG Petronas.

• He is a four-time Formula One World Champion, often regarded as one of the greatest drivers in the history of the sport.

Q99. Answer: (a) Web Layout

In Microsoft Word, web layout view enables us to view our document as it would appear in a web browser such as the Internet Explorer

• In Web layout view, the text appears to fit the window instead of the page margins. Background colors and images inserted in the document are also visible.

• In MS-Word, we can display our document in one of the four views: Draft, Web Layout, Print Layout, and Outline.

• Print layout- allows us to view how the document will look when we print it.

• Outline View- allows us to view the outline of the organization of the text in the document.

• Draft View- allows us to focus only on the text in the document.in this view, images, shapes, headers and footers, etc. are not visible.

• Web layout- allows us to view that how the document will look as a Web page.

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Q100. Answer: (a) National Aeronautics and Space Administration (NASA)

The National Aeronautics and Space Administration (NASA) will launch two missions GOLD and ICON to explore the ionosphere.

• With these two missions, NASA will explore the ionosphere, located 96 km above Earth's surface.

• The Global-scale Observations of the Limb and Disk (GOLD) mission will be launched in January 2018, while the Ionospheric Connection Explorer (ICON) will be launched later this year.

• NASA stated that both the missions were complementary to each other. GOLD will be in a geostationary orbit over the Western Hemisphere, about 35,398 km above the planet's surface while the ICON will be in low-Earth orbit, at 560 km above Earth, like a close-up camera.

• Both the missions will also help to measure how upper atmosphere changes in response to hurricanes and geomagnetic storms.

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