SSC CHSL Previous Paper 12 (Held On: 8 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) conturtion
(b) contorsion
(c) contortion
(d) contursion

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.

The absence of zebra

A-to the life of

B-citizens in most cities

C-crossings has become a threat

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

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".

Many novelists from the sub-continent (has provided) scathing accounts of this period.

(a) have provided
(b) have provide
(c) have provides
(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".

Thus we (going) back to what might be termed as old values.

(a) Went
(b) Gone
(c) Was going
(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.

Decrease or fade gradually before coming to an end

(a) Surge
(b) Accrual
(c) Peter

(d) Swell

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

Annoyed or irritated and quick to take offence at petty things

(a) Appease
(b) Mollify
(c) Huffy
(d) Soothe

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

Wet behind the ears

(a) To take a bath.
(b) Lacking experience or be immature.
(c) To speak bad behind other's back.
(d) Not able to eavesdrop despite trying hard.

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

Be of two minds

(a) Behave smart at sometime and stupid at other.
(b) Unable to decide.
(c) Having a split personality disorder.
(d) Trying to do two things at the same time.

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.

While language as the medium _____ thought may be compared to air as the medium of the sun's influence, in other ____ it is like the skin of the body; a scurvy skin shows bad blood within, and a scurvy language shows inaccurate thought ____ a confused mind. And as a disease once fixed on the skin reacts and poisons the blood in turn as it has first been poisoned by the blood, so careless use of language ____ indulged reacts on the mind to make it permanently and increasingly _____, illogical, and inaccurate in its thinking.

Q9. increasingly _____, illogical, and

(a) Carelessness
(b) Carelessly
(c) Careless
(d) Care less

Q10. use of language _____ indulged reacts

(a) Of
(b) Then
(c) If
(d) At

Q11. shows inaccurate thought _____ a confused mind.

(a) And
(b) But
(c) So
(d) Then

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Q12. in other _____ it is like the skin

(a) Respectful
(b) Respectfully
(c) Respected
(d) Respects

Q13. as the medium _____ thought may

(a) From
(b) Of
(c) For
(d) To

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) Irresistable
(b) Irresistible
(c) Iresistible
(d) Iresistable

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.

Sita said, “Will he listen to such a man?”

(a) Sita said would we listen to such a man.
(b) Sita ask if he would listen to such a man.
(c) Sita said would I listen to such a man.
(d) Sita asked whether he would listen to such a man.

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.

Lily was making a fort.

(a) Lily made a fort.
(b) A fort was being made by Lily.
(c) A fort is made by Lily.
(d) A fort made by Lily.

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

Today India looks

P: to be on a course

Q: of developed nations

R: to join the league

(a) PRQ
(b) QRP
(c) RPQ
(d) PQR

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

Nefarious

(a) Evil
(b) Pleasing
(c) Rotten
(d) Infernal

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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.

Resolute

(a) Agreeable
(b) Determined
(c) Constant
(d) Faithful

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

Conscientious

(a) Concentrated
(b) Honest
(c) Scientific
(d) False

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

Sustenance

(a) Extras
(b) Injury
(c) Aid
(d) Blockage

Q22. In the following question, the sentence is 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.

We must join hands and stop corruption which is posing _____ to the development of India.

(a) tolerance
(b) radiance
(c) hindrance
(d) relevance

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.

The dog runs _____ the street.

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

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'.

The goal of personal development is to learn and apply that (1)/which enable us to attain emotional well-being, understanding, and (2)/effectiveness, and to share this knowledge with others. (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 reached to (1)/station barely (2)/on time. (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.

Book : Pages ? ? : ?

(a) Writer : Write
(b) Pen : Write
(c) Car : Tyre
(d) Tyre : Round

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

553 : 551 ? 447 : ?

(a) 443
(b) 445
(c) 441
(d) 451

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

FOM : CLJ ? ? : ?

(a) RQS : POQ
(b) RAX : OXU
(c) JKN : MNQ
(d) ACD : CEF

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

(a) Zinc – Metal
(b) Aluminium – Metal
(c) Crocodile – Water
(d) Gold – Metal

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) 9 – 81
(b) 8 – 64
(c) 6 – 36
(d) 7 – 47

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

(a) BE
(b) SU
(c) AD
(d) OR

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

1. Scrape
2. Scramble
3. Scream
4. Scornful
5. Scour

(a) 12354
(b) 35421

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(c) 51243
(d) 45213

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

9, 13, 18, 24, 31, ?

(a) 39
(b) 35
(c) 40
(d) 37

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

XPK, VNJ, TLH, RJE, ?

(a) PHB
(b) OIA
(c) OIB
(d) PHA

Q35. In a row of swimmers Manish, is 23^(rd) from the left end. Ramesh is 11 ranks to the left of Manish. If Ramesh is 16^(th) from right end, then how many swimmers are there in this row?

(a) 28
(b) 27
(c) 30
(d) 29

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

Resources

(a) Source
(b) Rise
(c) User
(d) Sour

Q37. In a certain code language, “FRAME” is written as “79635” and “TOWEL” is written as “21854”. How is “WORM” written in that code language?

(a) 9376
(b) 8193
(c) 9183
(d) 1593

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

12 - 6 + 4 × 10 ÷ 16 = ?

(a) 14
(b) 2
(c) 24
(d) 5

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

18 - 2 ÷ 20 + 5 × 16 = 69

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

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Q40. If -2@-4 = -8, -1@-8 = -8 and -1@6 = 6, then find the value of -1@7 = ?

(a) 95
(b) -88
(c) 82
(d) 7

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

XXXXXXYY, XXXXXYXY, XXXXYXXY, XXXYXXXY, XXYXXXXY, _____.

(a) YXXXXXXY
(b) XXXXXXYY
(c) XYXXXXXY
(d) XXXXXYXY

Q42. A marketing executive goes on his field work and walks 2 km North, then he turns West and walks 6 km, then he turns North and walks 7 km, and then he turns to his right and walks 6 km. Where is he now with respect to his starting position?

(a) 5 km North
(b) 9 km North
(c) 9 km South
(d) 5 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 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: All cakes are pastries

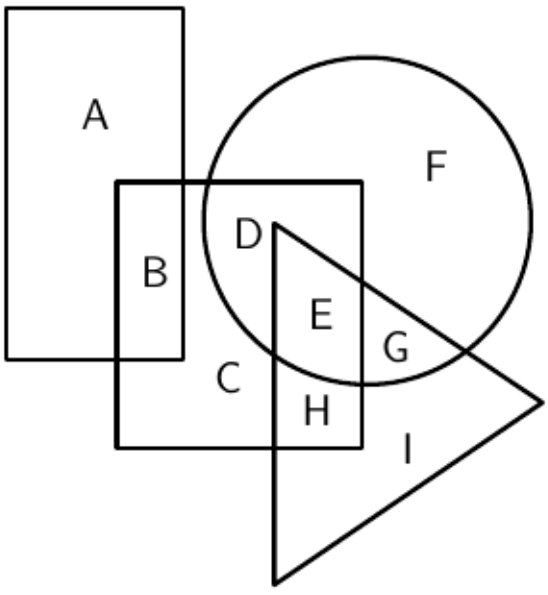
Statement II: Some bread are cakes

Conclusion I: No pastries are bread

Conclusion II: Some bread are pastries

(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 Chefs, circle represents Choreographers, triangle represents Divers and square represents Americans. Which set of letters represents Americans who are either Choreographers or Divers?



(a) CDE
(b) EGI

(c) DEH
(d) BCH

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

MAN, ODR, QGV, SJZ, ?

(a) UMD
(b) VNC
(c) UNC
(d) VMD

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

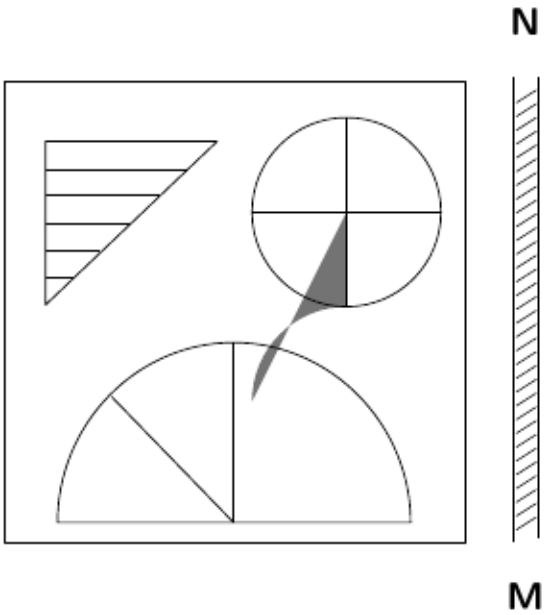
192, 186, 180, 174, ?, 162

(a) 166
(b) 168
(c) 164
(d) 170

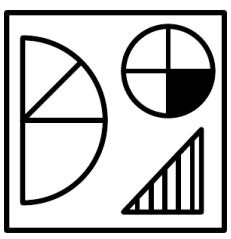
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (13, 26, 39)
(b) (15, 30, 45)
(c) (17, 34, 51)
(d) (19, 38, 59)

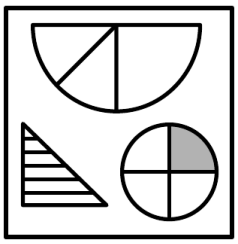
Q48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



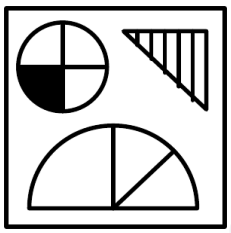
(a)



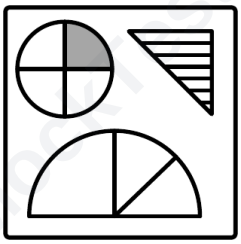
(b)



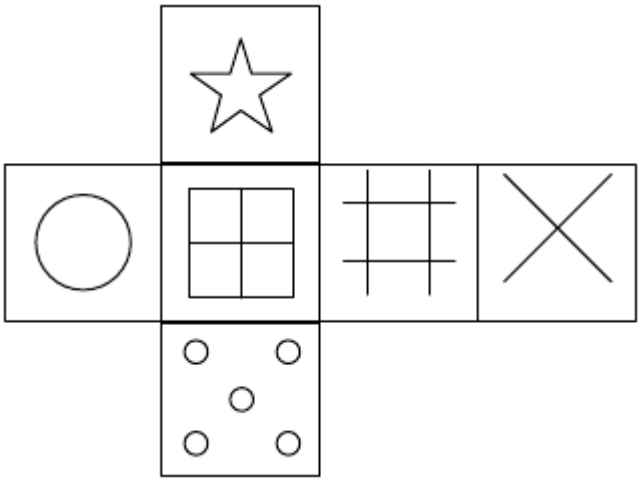
(c)



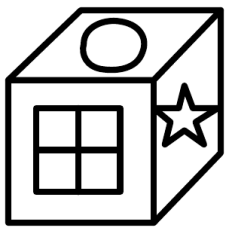
(d)



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

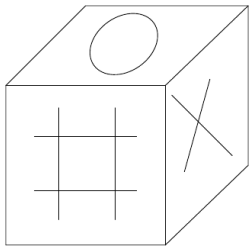


(a)

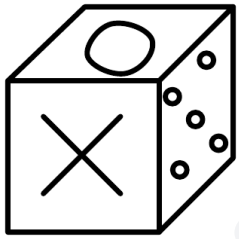


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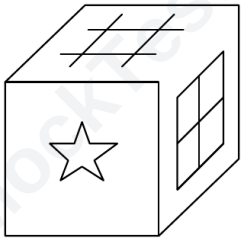
(b)



(c)



(d)



Q50. A word is represented by only 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 two matrices. The columns 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 'J' can be represented by 21, 14 etc. and 'P' can be represented by 95, 86 etc. Similarly, you have to identify the set for the word 'LITE'.

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

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

(a) 14, 97, 42, 78
(b) 22, 77, 22, 58
(c) 24, 79, 12, 56

(d) 20, 43, 55, 31

QUANTITATIVE APTITUDE

Q51. Calculate the value of 0.77777 + 0.7777 + 0.777 + 0.77 + 0.7 + 0.07

(a) 3.86274
(b) 3.80247
(c) 3.85274
(d) 3.87247

Q52. A crate of egg holds one rotten egg out of every 25 egg in it. If 5 out of 8 rotten eggs are unusable and there are total 10 unusable eggs in the crate, then calculate the number of eggs in the crate.

(a) 380
(b) 400
(c) 420
(d) 440

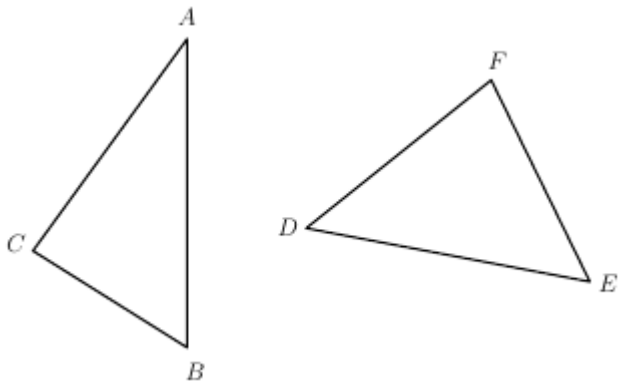
Q53. What is the area (in square units) of the figure enclosed by the x-axis, the y-axis, and the line x + 2y = 6?

(a) 3
(b) 6
(c) 9
(d) 12

Q54. What is the number of decimal places in a cube root of a number having 27 decimal places?

(a) 3
(b) 6
(c) 9
(d) 27

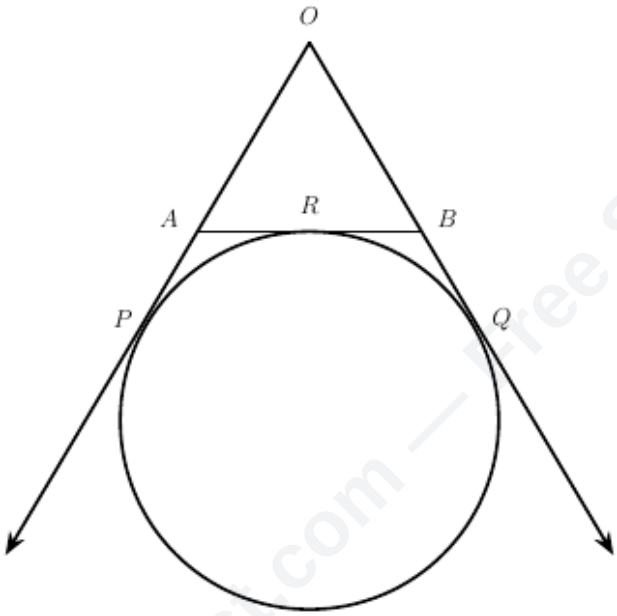
Q55. Which of the following condition is sufficient to state that the triangle ABC and DEF are similar?



(a) angle A = angle D and angle C = angle F
(b) angle A > angle D and angle B = angle E
(c) angle B = angle E and angle C < angle F
(d) All option are correct.

Q56. Which of the following option is CORRECT about the figure shown below?

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(a) OA – AR = OB + BR
(b) OA + AR = OB – BR
(c) OA + AR = OB + BR
(d) None of these

Q57. If the edge of a cube is increased by 10%, then what will be the percentage increase in its volume?
(a) 30
(b) 31.3
(c) 136.1
(d) 33.1

Q58. Rs. 18200 is divided among X, Y and Z in the ratio of 1/3 : 1/4 : 1/2. What is the share (in Rs.) of X?
(a) 7000
(b) 4400
(c) 4200
(d) 5600

Q59. In what ratio must a mixture of 20% milk strength be mixed with that of 60% milk strength so as to get a new mixture of 25% milk strength?
(a) 7 : 1
(b) 4 : 1
(c) 5 : 2
(d) 9 : 2

Q60. What is the average of sum of the first 39 even numbers?
(a) 39
(b) 40
(c) 20
(d) 68

Q61. A sum becomes Rs. 2286 in 3 years and Rs. 2448 in 4 years at simple interest. What is the rate (in percentage) of interest per annum?
(a) 10
(b) 9
(c) 8
(d) 11

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Q62. Selling price of a fan is Rs. 4644. If profit percentage is 29%, then what is the cost price (in Rs.) of fan?

(a) 5900
(b) 3500
(c) 3800
(d) 3600

Q63. The marked price of a helmet is 30% more than its cost price. If the helmet is sold for Rs. 744 after a discount of Rs. 36, then what will be the profit percentage?

(a) 24
(b) 18
(c) 21
(d) 27

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

I. $4\sqrt{3} > 3\sqrt{4}$

II. $8\sqrt{2} > 2\sqrt{8}$

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

Q65. S, T and U together can complete a work in 30 days. If the ratio of efficiency of S, T and U is 20 : 15 : 12 respectively, then in how many days U alone can complete the same work?

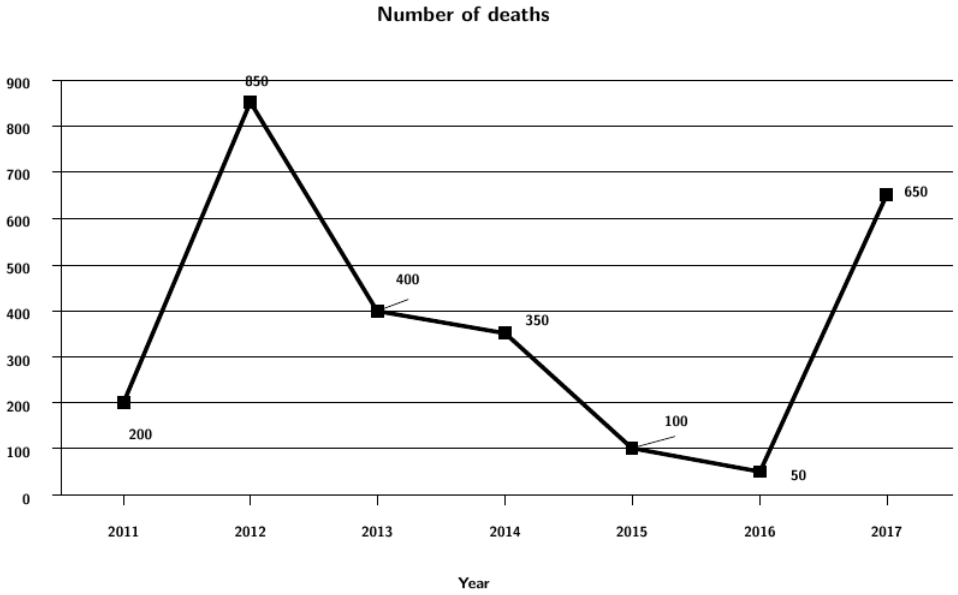
(a) 195/2
(b) 235/2
(c) 225/2
(d) 215/2

Q66. A train is moving at the speed of 90 km/hr. How many seconds it will take to cover a distance of 2275 meter?

(a) 96
(b) 91
(c) 86
(d) 93

Directions

Direction: The line graph shows the number of deaths due to rail accidents in a certain state. Study the diagram and answer the following questions.



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

(a) 2013
(b) 2012
(c) 2014
(d) 2015

Q68. What was the difference in the number of deaths between the years 2012 and 2015?

(a) 6500
(b) 8500
(c) 7500
(d) 5500

Q69. The number of deaths in 2017 were greater than that in 2013 by _____.

(a) 50%
(b) 35%
(c) 62.5%
(d) 37.5%

Q70. If on an average Rs. 5 lakhs was paid as insurance for each death due to a rail accident, then how much insurance was paid (in Rs. crore) in the year 2014?

(a) 225
(b) 275
(c) 125
(d) 175

Q71. What must be the length (in cm) of the diagonal of a rectangle if its area and breadth are 120 cm^2 and 8 cm respectively?

(a) 34
(b) 17
(c) 15
(d) 30

Q72. If the measure of the interior angle of a regular polygon is 90° greater than the measure of its exterior angle, then how many sides does it have?

(a) 8
(b) 9
(c) 10
(d) 12

Q73. Find the volume (in cm^3) of a hemisphere of diameter 21 cm.

(a) 2235.5
(b) 2425.5
(c) 2040
(d) 1860

Q74. What is the value of (cosec 30° – 1/√3)?

(a) (2√3 – 1)/√3
(b) (√3 – 4)/2√3
(c) -1/√3
(d) 2/√3

Q75. In ΔXYZ measure of angle Y is 90°. If cosec X = 13/12, and XY = 1 cm, then what is the length (in cm) of side YZ?

(a) 2.6
(b) 1.5
(c) 2.4

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(d) 2

GENERAL AWARENESS

Q76. Disguised unemployment generally means_____.

(a) Large number of people remain unemployed
(b) Alternative employment is NOT available
(c) Marginal productivity of labour is zero
(d) Productivity of workers is low

Q77. The State Financial Corporations have given assistance mainly to develop_____.

(a) Agriculture farms
(b) Cottage industries
(c) Medium and small-scale industries
(d) Large scale industries

Q78. Which of the following Pratyahara king adopted the title of ' Adivaraha'?

(a) Mihira Bhoja
(b) Watsaraj
(c) Ram Bhoja
(d) Nagabhata II

Q79. Where did the telegraph line be laid first?

(a) Calcutta to Agra
(b) Agra to Jaipur
(c) Delhi to Shimla
(d) Raniganj to Calcutta

Q80. Equinox means the date when _____.

(a) duration of day and night are equal
(b) day is longer than the night
(c) night is longer than the day
(d) it is the shortest day and the shortest night of the year

Q81. Which of the following countries does NOT has the international border with India?

(a) Pakistan
(b) Bangladesh
(c) Bhutan
(d) Sri Lanka

Q82. Where was Guru Nanak Dev (the originator of Sikh religion) born?

(a) Amritsar
(b) Anandpur Sahib
(c) Talwandi
(d) Patna Sahib

Q83. The 48^(th) World Economic Forum (WEF) annual meeting was held in which of the following countries?

(a) Australia
(b) China
(c) Switzerland
(d) France

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Q84. Who among the following is NOT one of the recipients of Major Dhayan Chand Award for the year 2017?

(a) Bhupender Singh
(b) Syed Shahid Hakim
(c) Sumarai Tete
(d) Braja Bhushan Mohanty

Q85. Which of the following countries border touches with China?

(a) Uzbekistan
(b) Thailand
(c) Vietnam
(d) South Korea

Q86. Polycot is a mixture of which among the following?

(a) Polyester and cotton
(b) Polyester and wool
(c) Rayon and cotton
(d) Rayon and wool

Q87. Which of the following is Inexhaustible Natural Resources?

(a) Air
(b) Minerals
(c) Forests
(d) Coal

Q88. According to Dr. Ambedkar which Article is the most important article of the Indian constitution?

(a) Article 21
(b) Article 24
(c) Article 32
(d) Article 256

Q89. How many seats are reserved for women in Municipality?

(a) 1/5
(b) 1/7
(c) 1/3
(d) 1/4

Q90. How is the nitrogen taken up by the plants?

I. In the form of inorganic nitrates or nitrites
II. In the form of organic compounds
III. Directly taken up from the atmosphere

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

Q91. Which of the following relation is true regarding the amounts of genetic material contributed by the father and mother to the child?

(a) Father ? Mother
(b) Father ? mother
(c) Father = Mother
(d) No relation can be determined.

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Q92. In August 2017, the Government of India decide to launch a new scheme named “AGEY”. This new scheme is a part of the Deen Dayal Antyodaya Yojana National Rural Livelihood Mission (DAY-NRLM). What does ‘E’ stand for in ‘AGEY’?

(a) Enterprise
(b) Energy
(c) Express
(d) Engineering

Q93. SARAS PT1N is how many seater passenger aircraft designed and developed by CSIR-NAL?

(a) 10
(b) 14
(c) 20
(d) 25

Q94. What was the debt-to-GDP ratio for the Financial Year 2016-17?

(a) 60.40%
(b) 49.40%
(c) 50.40%
(d) 55.40%

Q95. On 10 April 2017, Lok Sabha passed Constitution (123^(rd)Amendment) Bill, 2017. The Bill seeks to give Constitutional Status to _____.

(a) National Human Rights Commission
(b) National Commission on Backward Classes
(c) National Finance Commission
(d) National Commission for Women

Q96. What is the heat generated (in J) in a heating element of resistance 900 Ω when a current of 0.3 A passes through it for 10 seconds?

(a) 2700
(b) 810
(c) 405
(d) 1350

Q97. As the object covers unequal distances in equal intervals of time, it is said to be in _____ motion.

(a) Uniform
(b) Linear
(c) Non-uniform
(d) Equilibrium

Q98. The day-to-day condition of the atmosphere at a place with respect to the temperature, humidity, rainfall, wind speed, etc., is called the _____ at that place.

(a) climate
(b) ecology
(c) environment
(d) weather

Q99. Which of the statements given below are correct?

A) In 2017, Glenn Maxwell captained the IPL team Kings XI Punjab.
B) Roger Federer won the Table Tennis 2017 ITTF World Tour Grand Finals Men's Singles.
C) Bernhard Langer won the Golf 2017 Senior PGA Championship.

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

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Q100. In Microsoft Word, _____ provides information about the current document.

(a) Drawing toolbar
(b) View Button
(c) Status bar
(d) Tab stop

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) contortion

The correct answer is 'Contortion'

Key Points

• The correct spelling is 'Contortion' which means 'movements of your body or face into unusual shapes or positions.'

• Let's see an example-

• I had to admire the contortions of the gymnasts

So the correct answer is 'Option 3'

Q2. Answer: (c) CAB

The correct answer is 'CAB'

Key Points

• When we read the first sentence, the fixed part, we get to know that the whole sentence is not talking about the zebra So the first part is going to be 'C' because the speaker is talking about the Zebra crossings. Also, the verb is correctly used because when the whole sentence gets joined we get to know the subject of the sentence is 'absence' which is singular.

• When we look at the options we find that there is only one option which starts with 'C' i.e. 'Option 3'

• So the correct answer is 'Option 3 'CAB"

Q3. Answer: (a) have provided

The correct answer is 'have provided'

Key Points

The given phrase is to be replaced with 'have provided'

• According to the rule of subject-verb agreement, the verb should be according to the subject of the sentence.

• In the given sentence, the subject is 'Novelists' hence use the plural verb of the subject which is 'have'

• With 'have' we need to write the third form of the verb hence use 'provided.'

So the correct sentence is- Many novelists from the sub-continent have provided scathing accounts of this period.

Q4. Answer: (a) Went

The correct answer is 'went'

Key Points

• Let's see the options given-

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• Option 2- 'Gone' is a third form of the verb and we know that the third form of the verb cannot be written without the helping verb. Hence, this option is rejected.

• Option 3- 'was going' 'was' is used for the singular person/thing in the given sentence the noun for which we need a verb is 'we' which is plural in number hence this option is also eliminated.

• Option 4- As 'going' is the present participle i.e. 'V1+ ing' form which cannot be written without the helping verb hence, we need to do improvement so this option is also eliminated.

• So the correct answer is 'Went'

The correct sentence is- Thus we went back to what might be termed as old values.

Q5. Answer: (c) Peter

The correct answer is 'Peter'

Key Points

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

• 'Peter' means decrease or fade gradually before coming to an end means"

• 'Surge' means 'a sudden large temporary increase'

• 'Accrual' means 'be received in regular or increasing amounts' it is a noun.

• 'Swell' means 'become larger in size'

So according to the meanings, the correct answer is 'Peter'

Q6. Answer: (c) Huffy

The correct answer is 'Huffy'

Key Points

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

• Appease: pacify or placate (someone) by acceding to their demands

• Mollify: appease the anger or anxiety of (someone)

• Huffy: annoyed or irritated and quick to take offence at petty things

• Soothe: gently calm (a person or their feelings)

• So according to the meanings of the given words the correct answer is 'Huffy'

Q7. Answer: (b) Lacking experience or be immature.

The correct answer is 'lacking experience or be immature'

Key Points

• The meaning of the given idiom 'Wet behind the ears' is 'lacking experience; immature.'

• Let's see an example-

• The new intern is still a little wet behind the ears.

Q8. Answer: (b) Unable to decide.

The solution is in Hindi. Read it online.

Q9. Answer: (c) Careless

The correct answer is 'careless'

Key Points

• Let's see the options-

• Carelessness- is a noun that means 'not giving sufficient attention to'

• Carelessly- is an adverb.

• Careless- is an adjective.

• Option 4- is not a word because of the spacing between the 'care' and 'less' this forms another which we don't need in the sentence.

• According to grammar, before the blank an adverb is given hence in the blank we need an adjective which is going to be followed by this adverb.

• So the correct answer is- Increasingly careless, illogical, and

Q10. Answer: (c) If

The correct answer is 'if'

Key Points

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• 'If' here doesn't show the conditional sentence here it is a conjunction that means 'despite the possibility that or despite being.

• Let's see an example-

• I would have liked to ask him if there was any way I could.

So the correct blank is- Use of language if indulged reacts.

Q11. Answer: (a) And

The correct answer is 'and'

Key Points

• According to grammar, when we want to join the same kinds of words we have to use the coordinate conjunction 'and' because it joins the same nouns/adjectives/verbs, etc.

• Before the blank, the noun phrase is used 'inaccurate thought' and after the blank, the other noun phrase is used which is a confused mind' also, these two are used for the 'the scurvy language' this is another noun phrase for this phrase the verb is used 'shows'

• So the correct sentence is- a scurvy language shows inaccurate thought and a confused mind.

Q12. Answer: (d) Respects

The correct answer is 'respects'

Key Points

• 'in' is a preposition and 'other' is a determiner so in the blank, we need a noun to make a prepositional object or the prepositional phrase.

• 'respectful' is an adjective.

• 'respectfully' is an adverb

• 'respected' is a past participle.

• 'respects' is a noun.

• So according to the parts of speech, the correct answer is 'respects'

Q13. Answer: (b) Of

The correct preposition is 'of.'

Key Points

• You use 'of' to combine two nouns, or a noun and a present participle when the second noun or present participle defines or gives more information about the first noun.

• Let's see some examples-

• Would you say what you felt was a feeling of betrayal?

• This has been a good chance of meeting up with everyone again.

• Before the blank, 'medium' has been used, and after the blank 'thought' has been used which is a noun that means 'an idea or opinion produced by thinking' to combine these nouns we have to use 'of' preposition.

So the correct sentence is- While language as the medium of thought

Q14. Answer: (b) Irresistible

The correct answer is 'Irresistible'

Key Points

• The correct spelling is 'Irresistible' the meaning of this word is- 'too tempting and powerful to be resisted.'

• Let's see an example-

• It proved an irresistible temptation to Hall to go back. ('Irresistible' is an adjective which is used to qualify a noun temptation.)

Q15. Answer: (d) Sita asked whether he would listen to such a man.

The correct answer is 'Sita asked whether he would listen to such a man.'

Key Points

• Let's see the rules to change direct speech into indirect speech.

• According to the reporting verb, changes are made in the direct sentence or the sentence in inverted commas.

• If the reporting verb is in the past tense, then the direct sentence is changed in its past tense.

• The tense of direct speech remains unchanged when the reporting verb is in the present or future tense.

• If the direct sentence contains the universal truth, then it remains unchanged in the Indirect Speech.

• Changes in Interrogative sentences-

• The reporting verb said/said to is changed in asked, demanded, ordered, enquired as per the nature of the sentence.

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• While a sentence starts with the reporting verb then at the conversion time if /whether is used as the joining clause.

• In case the sentence starts from the “Wh” question word, then no extra conjunction is used.

• Changes of pronoun-

• The first person in reported speech changes according to the subject of reporting speech.

• In Reported Speech change of the second person depends on the object of reporting speech.

• The third person remains unchanged.

• The given sentence is an Interrogative sentence. So the reporting verb will change into 'asked' and use 'if' hence, according to this the correct answer is 'Option 4.'

Q16. Answer: (b) A fort was being made by Lily.

The correct answer is 'A fort was being made by Lily'

Key Points

• Let's see the rules of changing the Active voice into the passive voice.

• Firstly, check the tense of the sentence. In the given sentence, the tense is 'past continuous tense'

• Secondly, See whether the sentence has an object. If not, then check whether the sentence has an infinitive phrase if yes then make the passive of the infinitive phrase.

• In the passive voice, the subject of the active voice becomes the object and the object of the active voice becomes the subject.

• In the given sentence, the verb make is used which is a transitive verb hence we know that the transitive verb has always an object in the sentence the object is 'a fort.'

• Also, whenever the continuous tense is used the structure would be 'be(was/were/is/are) + being + V3'

• So according to the structure, the correct sentence is 'A fort was being made by Lily'

Q17. Answer: (a) PRQ

The correct answer is PRQ.

Key Points

• Both P and R starts with the preposition 'to' which is what the next part of the sentence should start with.

• Both sentences can be used first. But, if R is used before P, then the use of sentence P is meaningless.

• It will be incomplete as the question ''to be on course for what?' will remain unanswered. But if we use P first we will know that India is on course ''to join the league of developed nations.'

So the correct sentence is- Today India looks to be on a course of developed nations to join the league.

Q18. Answer: (b) Pleasing

The correct answer is 'Pleasing'

Key Points

• Let's see the meanings of the given sentence-

• Nefarious→ is an adjective that means 'wicked or criminal'

• Evil→ extremely wicked or immoral.

• Pleasing→ is an adjective (the present participle) that means 'cause to feel happy and satisfied'

• Rotten→ is an adjective that means 'suffering from decay'

• Infernal→ is an adjective that means 'relating to hell or the underworld'

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

Q19. Answer: (a) Agreeable

The correct answer is 'Agreeable'

Key Points

• Let's see the meanings of the word-

• Resolute→ is an adjective that means 'determined and unwavering'

• Agreeable→ is an adjective that means 'pleasant or pleasing'

• Determined→ is an adjective that means 'having the firmness of purpose'

• Constant→ is an adjective that means 'occurring continuously'

• Fruitful→ is an adjective that means 'producing much fruit and fertile'

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

Q20. Answer: (b) Honest

The correct answer is 'Honest'

Key Points

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

• Conscientious means 'wishing to do one's work or duty well and thoroughly.'

• Honesty- means "free of deceit; truthful and sincere."

• Concentrated means wholly directed to one thing; intense

• Scientific means "based on or characterized by the methods and principles of science."

• So according to the meaning, the correct answer is 'Honest'

Q21. Answer: (c) Aid

The correct answer is 'Aid'

Key Points

• Sustenance refers to the food and nourishment necessary to maintain life and health. It can also refer to the means of support or livelihood, both in a literal and figurative sense.

• Example of sustenance: The refugees were in need of sustenance and shelter. - In this sentence, sustenance refers to the basic necessities required for survival, such as food, water, and shelter.

• Aid and sustenance are related words that have some overlap in meaning. Both words refer to forms of support or assistance that help someone or something to continue or survive.

• Aid can refer to any type of help or support provided to someone or something in need, including financial, material, or physical support. Sustenance, on the other hand, usually refers specifically to food or other necessities that help a person or animal to survive.

• However, in some contexts, the word sustenance can be used more broadly to refer to any type of support or assistance that helps to maintain something, such as a business or an ecosystem. In this sense, sustenance can be seen as a synonym of aid, as both words refer to forms of support that help something to continue or thrive.

• For example, a government might provide aid to a struggling business in the form of tax breaks or other financial incentives, which could be seen as a form of sustenance for the business. Similarly, a nonprofit organization might provide aid to support the ecological sustenance of a natural habitat or ecosystem.

• "Extras" and "Injury" are not synonyms of sustenance. Extras refers to something additional or supplementary, while injury refers to harm or damage.

• "Blockage" is also not a synonym of sustenance. Blockage refers to an obstruction or barrier that prevents something from flowing or moving freely.

• Hence, according to the meaning of the words, the correct answer is 'Aid'

Q22. Answer: (c) hindrance

The solution is in Hindi. Read it online.

Q23. Answer: (d) across

The correct answer is 'across'

Key Points

• 'Across' is a preposition. It is a 2-Dimensional preposition which means 'it is used for the 2-D object.' If someone or something goes across a place or a boundary, they go from one side of it to the other.

• Let's see an example-

• She walked across the floor and lay down on the bed.

So the correct sentence is→ The dog runs across the street.

Q24. Answer: (b) 2

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

Key Points

In part 2 of the sentence, the usage of 'which' is incorrect.

• When the information is important and meaning-altering, we use ‘that.’ but if we are just adding extra information that’s not really needed, we will use ‘which.’

• Here, in the sentence, 'goals' of personal development and its application is discussed which makes the information important. Therefore, we will use 'That' instead of 'which'.

• According to the rule of subject-verb agreement, the verb of the sentence should be according to the subject. If the subject is plural then the verb should be plural on the other hand if the subject is singular then the verb should be singular.

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• In the given sentence, the subject is 'goal' because 'of' is a preposition and 'personal development' is a prepositional phrase 'is' is used for the subject 'the goal'

• 'to' is a preposition and we know that with the preposition we always need a prepositional object which can be a noun/pronoun/gerund/noun clause/noun phrase. In this case, it is a noun clause in this clause the subject is 'learn and apply' which is in a plural form because two nouns are connected with the conjunction 'and' so the verb should be plural. So that's why 'enable' is used.

So the correct sentence is- The goal of personal development is to learn and apply that enable us to attain emotional well-being, understanding, and effectiveness, and to share this knowledge with others.

Q25. Answer: (a) 1

The correct answer is '1' i.e. error lies in this part of the sentence.

Key Points

In part 1 of the sentence, the usage of 'to' is incorrect Omit 'to'

• According to grammar, 'reach' is a transitive verb hence we need to write an object after it. A transitive verb is a verb that always has an object.

• Let's see an example-

• John gave Mary the book. (There are two objects the first one is 'mary' which is an indirect object and 'the book' which is a direct object.)

So the correct sentence is- She reached station barely on time.

Q26. Answer: (c) Car : Tyre

As books contain pages,

Pages are part of book.

Similarly,

Tyres are the part of a car.

Hence, ‘Car : Tyre’ is the right answer.

Q27. Answer: (b) 445

The pattern followed here is,

First Term - 2 = Second Term

553 - 2 = 551

Similarly,

447 - 2 = 445

Hence, 445 is the right answer.

Q28. Answer: (b) RAX : OXU

The pattern followed here is,

F - 3 = C

O - 3 = L

M - 3 = J

Similarly,

R - 3 = O

A - 3 = X

X - 3 = U

Hence, ‘RAX : OXU’ is the correct answer.

Q29. Answer: (c) Crocodile – Water

The logic here is as follows:

All except ‘Crocodile – Water’, are the pair of elements and its type i.e. Metal.

Whereas, crocodile is an animal and he lives in water.

Hence, the correct answer is "Crocodile – Water".

Q30. Answer: (d) 7 – 47

The pattern followed here is,

(First Number)^2 = Second Number

Applying the above logic to each option, we get

$(9)^2 = 81$

$(8)^2 = 64$

$(6)^2 = 36$

$(7)^2 = 49 \neq 47$

Thus, 7 – 47 is the odd one out.

Hence, the correct answer is, "7 – 47".

Q31. Answer: (b) SU

The pattern followed here is,

First alphabet + 3 = Second alphabet

B + 3 = E → BE

S + 2 = U → SU

A + 3 = D → AD

O + 3 = R → OR

Hence, the correct answer is "SU".

Q32. Answer: (d) 45213

As per the dictionary order,

4. Scornful

5. Scour

2. Scramble

1. Scrape

3. Scream

Hence, the correct answer is "45213".

Q33. Answer: (a) 39

The pattern followed here is,

4, 5, 6, 7 and 8 are added to each term respectively to get the next term.

Hence, the correct answer is "39".

Q34. Answer: (d) PHA

The pattern followed here is,

First letter of each word: X - 2 = V; V - 2 = T; T - 2 = R; R - 2 = P

Second letter of each word: P - 2 = N; N - 2 = L; L - 2 = J; J - 2 = H

Third letter of each word: K - 1 = J; J - 2 = H; H - 3 = E; E - 4 = A

Hence, ‘PHA’ is the correct answer.

Q35. Answer: (b) 27

Manish is 23^(rd) from the left end.

Ramesh is 11 ranks to the left of Manish. i.e. Ramesh is (23 - 11) = 12^(th) from the left end.

Ramesh is 16^(th) from the right end.

Total number of swimmers: 16 + 12 - 1 = 27

Hence, the correct answer is, "27".

Q36. Answer: (b) Rise

By checking all the options:

1) Source: RESOURCES, hence word can be formed.

2) Rise: ‘I’ is not present in RESOURCES, hence word cannot be formed.

3) User: RESOURCES, hence word can be formed.

4) Sour: RESOURCES, hence word can be formed.

Hence, the correct answer is "Rise".

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Q37. Answer: (b) 8193

The pattern followed here is,

FRAME:

F	R	A	M	E
7	9	6	3	5

TOWEL:

T	O	W	E	L
2	1	8	5	4

WORM:

W	O	R	M
8	1	9	3

So, the word ‘WORM’ can be written as 8193.

Hence, the correct answer is "8193".

Q38. Answer: (c) 24

In a certain coding language,

SYMBOLS	•	÷	•	×
CODES	×	•	÷	•

Given: 12 - 6 + 4 × 10 ÷ 16

Changing symbols as per the table shown above, we get

12 × 6 ÷ 4 - 10 + 16

Using the BODMAS rule,

= (12 × (6 ÷ 4)) + 16 - 10

= (12 × 1.5) + 16) - 10)

= (18 + 16) - 10

= 34 - 10

= 24

Hence, the correct answer is "24".

Q39. Answer: (a) ÷ and -

Changing symbols as per the given options and solving them by the bodmas rule,

Given equation : 18 - 2 ÷ 20 + 5 × 16 = 69

1) (÷ and -)

= 18 ÷ 2 - 20 + 5 × 16 = 69

= 9 - 20 + 5 × 16 = 69

= 9 + 80 - 20 = 69

= 89 - 20 = 69

= 69 = 69

2) (+ and ×)

= 18 - 2 ÷ 20 × 5 + 16 = 69

= 18 - 0.1 × 5 + 16 = 69

= 18 + 16 - 0.5 = 69

= 34 - 0.5 = 69

= 33.5 ≠ 69

3) (+ and ÷)

= 18 - 2 + 20 ÷ 5 × 16 = 69

= 18 - 2 + 4 × 16 = 69

= 18 + 64 - 2 = 69

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= 82 - 2 = 69

= 80 ≠ 69

4) (- and +)

= 18 + 2 ÷ 20 – 5 × 16 = 69

= 18 + 0.1 - 5 × 16 = 69

= 18 + 0.1 - 5 × 16 = 69

= 18 + 0.1 - 80 = 69

= 18.1 - 80 = 69

= - 61.9 ≠ 69

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

Q40. Answer: (d) 7

The pattern followed here is,

-2@-4 → (-2) × (-1) × (-4) = -8

-1@-8 → (-1) × (-1) × (-8) = -8

-1@6 → (-1) × (-1) × (-6) = -6

Similarly,

-1@7 → (-1) × (-1) × (7) = 7

Hence, the correct answer is "7".

Q41. Answer: (c) XYXXXXXY

The pattern that followed here is,

X	X	X	X	X	X	Y	Y
X	X	X	X	X	Y	X	Y
X	X	X	X	Y	X	X	Y
X	X	X	Y	X	X	X	Y
X	X	Y	X	X	X	X	Y
X	Y	X	X	X	X	X	Y

Hence, the correct answer is "XYXXXXXY".

Q42. Answer: (b) 9 km North

As per the given information,

First he walks 2 km North, then he turns West and walks 6 km, then he turns North and walks 7 km, and then he turns to his right and walks 6 km.

So, the marketing executive is 9 km to the north from his starting position.

Hence, the correct answer is "9 km North".

Q43. Answer: (b) Only conclusion II follows

The least possible diagram of this question is as follows,

Conclusion I: No pastries are bread → Does not follow (As all cakes are pastries and some cakes are bread, thus some pastries will be bread.)

Conclusion II: Some bread are pastries → Follows (As some bread is cakes and all cakes are pastries, thus some bread will be pastries.

Thus, only conclusion II follows.

Hence, the correct answer is, "Only conclusion II follows".

Q44. Answer: (c) DEH

Here,

The alphabet in the rectangle represents Chefs: A and B

Circle represents Choreographers: D, G, E and F

Triangle represents Divers: E, G, H, and I

Square represents Americans: C, E, H, D and B

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The set of letters represents Americans who are either Choreographers or Divers are letters in the Square and common with the Triangle or the Circle, which is DEH.

Hence, the correct answer is "DEH".

Q45. Answer: (a) UMD

The pattern followed here is,

First letter of each word: M + 2 = O; O + 2 = Q; Q + 2 = S; S + 2 = U

Second letter of each word: A + 3 = D; D + 3 = G; G + 3 = J; J + 3 = M

Third letter of each word: N + 4 = R; R + 4 = V; V + 4 = Z; Z + 4 = D

Hence, UMD is the correct answer.

Q46. Answer: (b) 168

The pattern followed here is,

192 - 6 = 186;

186 - 6 = 180;

180 - 6 = 174;

174 - 6 = 168;

168 - 6 = 162

Hence, the correct answer is "168".

Q47. Answer: (d) (19, 38, 59)

The pattern followed here is,

First Number + Second Number = Third Number

1) (13, 26, 39) → 26 + 13 = 39

2) (15, 30, 45) → 30 + 15 = 45

3) (17, 34, 51)→ 34 + 17 = 51

4) (19, 38, 59)→ 38 + 19 = 57 ≠ 59

Thus, (19, 38, 59) is the odd one out.

Hence, the correct answer is, "(19, 38, 59)".

Q48. Answer: (d) [figure]

If a mirror is placed along the MN line, then we will get the following mirror image.

Hence, the correct answer is "option 4".

Q49. Answer: (b) [figure]

As per the given information,

Thus, image 2 will not be formed from the given unfolded cube because the circle should come on the back of the # symbol.

Hence, the correct answer is "option 2".

Q50. Answer: (d) 20, 43, 55, 31

Applying the logic as given in the table to each option, we get

1) 14, 97, 42, 78 → J, N, D, Z

2) 22, 77, 22, 58 → F, Z, F, Q

3) 24, 79, 12, 56 → J, T, G, W

4) 20, 43, 55, 31 → L, I, T, E

Hence, the correct answer is ‘20, 43, 55, 31’

Q51. Answer: (d) 3.87247

Calculations:

0.77777 + 0.7777 + 0.777 + 0.77 + 0.7 + 0.07

=> 7(0.11111 + 0.1111 + 0.111 + 0.11 + 0.1 + 0.01)

Multiply the given expression by 105 we get

=> 7 × 100000(0.11111 + 0.1111 + 0.111 + 0.11 + 0.1 + 0.01)

=> 7(11111 + 11110 + 11100 + 11000 + 10000 + 1000)

=> 7 × 55321 = 387247

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Now divide it by 105 we get,

=> 387247/10^5

=> 387247/100000 = 3.87247

Therefore The correct answer is 3.87247

Q52. Answer: (b) 400

Given:

In every 25 eggs 1 egg is rotten

In every 8 rotten eggs 5 are unusable

Calculation:

There are 5 unusable eggs out of 8 rotten eggs

=> There are 5 × 2 = 10 unusable eggs out of 8 × 2 = 16 rotten eggs.

Now,

1 egg is rotten out of 25 eggs

Therefore 16 eggs are rotten out of 25 × 16 = 400 eggs.

Q53. Answer: (c) 9

Calculation:

The equation of the line is x + 2y = 6

=> x/6 + 2y/6 = 1

=> x/6 + y/3 = 1

Therefore Area of enclosed triangle = 1/2 × 6 × 3 = 9 sq. units

Q54. Answer: (c) 9

Number of decimal places gets added when two or more no. are multiplied.

The cube of a number have three same factors

So, if the no. have 27 decimal places than its cube root will have = 27/3 = 9 decimal places

Q55. Answer: (a) angle A = angle D and angle C = angle F

Concept Used:

If the corresponding angles of two triangles are equal then both triangles will be equal by angle-angle-angle (AAA) similarity criteria.

Calculation:

If triangles ABC and DEF are similar then angle A = angle D, angle B = angle E, and angle C = angle F

Therefore Option 1 is the correct answer.

Q56. Answer: (c) OA + AR = OB + BR

Concept used:

If two tangents are drawn to a circle from an external point, then the tangents are equal

Calculation:

OP = OQ (Both are tangents from the same point)

So, AP = AR and BQ = BR (Common tangent AB)

=> OP = OQ

=> OA + AP = OB + BQ

=> OA + AR = OB + BR

Therefore Option 3 is correct.

Q57. Answer: (d) 33.1

GIVEN:

The edge of a cube is increased by 10%

FORMULA USED:

Volume of cube = a3

CALCULATION:

Let the edge of a cube is a

Volume of cube = a^3
New edge = 110% of a = 1.1a
New volume = $(1.1a)^3 = 1.331a$
% increase in volume = $(1.331a^3 – a^3) /a^3 × 100$
$= 0.331a^3/a^3 × 100$
= 33.1%
Therefore % increase in volume is 33.1%.

Q58. Answer: (d) 5600

Given:
Ratio of money divided among x : y : z = 1/3 : 1/4 : 1/2
Calculation:
LCM of (3, 4, 2) = 12
Multiply the ratio by their LCM
Ratio of money divided among x : y : z = (1/3 : 1/4 : 1/2) × 12 = 4 : 3 : 6
=> x = 4a, y = 3a, z = 6a
According to the question,
4a + 3a + 6a = 18200
=> 13a = 18200
=> a = 1400
Therefore Share of x = 4a = 4 × 1400 = 5600

Q59. Answer: (a) 7 : 1

Given:
A mixture of 20% milk strength be mixed with that of 60% milk strength, getting a resultant mixture of 25% milk strength
Calculation:
Therefore Required ratio = 35 : 5 = 7 : 1

Q60. Answer: (b) 40

Given:
First even no. is 2 and 39^(th) even no. is 39 × 2
= 78
Concept Used:
Average of the first 39 even no.
= (Sum of the first and the last even no.)/2
Calculation:
= (2 + 78)/2
= 40

Q61. Answer: (b) 9

Given:
A sum becomes Rs. 2286 in 3 years and Rs. 2448 in 4 years at simple interest
Concept used:
Simple interest is always calculated on principal, so S.I remains the same in each year.
Calculation:
S.I. of 1 year = Amount after 4 year – Amount after 3 year = 2448 – 2286 = 162
P = Amount of 3 years – S.I of 3 years = 2286 – 162 × 3 = 2286 – 486 = 1800
S.I = (P × R × T)/100
=> 162 = (1800 × R × 1)/100
Therefore R = 162/18 = 9%

Q62. Answer: (d) 3600

Given:
The selling price of a fan is Rs. 4644, it is sold at 29% profit

Calculation:
The selling price of a fan = 4644
C.P of fan × (100 + Profit %)/100 = 4644
=> C.P of fan × 129/100 = 4644
Therefore C.P. of fan = Rs. 3600
Shortcut Trick
we know C.P = S.P × 100/(100 + P)
So, C.P = 4644 × 100/129 = 3600

Q63. Answer: (a) 24

Given:
M.P of a helmet is 30% more than C.P and the helmet is sold for Rs. 744 after a discount of Rs. 36
Concept used:
• Marked Price - Discount = Selling Price
• Cost Price + Profit = Selling Price
Calculation:
Marked price of the Helmet = Selling price + Discount = 744 + 36 = Rs. 780
130% of C.P of the helmet = Rs. 780
=> C.P of the helmet × 130/100 = Rs. 780
=> C.P of the helmet = Rs. 600
Therefore Profit % = (744 – 600)/600 × 100 = 144/600 × 100 = 24%

Q64. Answer: (d) Both I and II

Calculation:
Statement I. $4\sqrt{3} > 3\sqrt{4}$ means $4 \times 1.732 > 3 \times 2$
that is $6.928 > 6$
Statement II. $8\sqrt{2} > 2\sqrt{8}$ means $8 \times 1.414 > 2 \times 2 \times 1.414$
that is $11.312 > 5.656$
So, Both statements are true

Q65. Answer: (b) 235/2

Given:
S, T and U together can complete a work in 30 days. If the ratio of efficiency of S, T and U is 20 : 15 : 12 respectively
Concept used:
Total work = Efficiency × Time
Calculation:
Time taken to complete total work by S, T and U together = 30 days
Ratio of efficiency of S, T and U = 20 : 15 : 12
Total efficiency = 1/(Total time taken)
=> 20k + 15k + 12k = 1/30
=> k = 1/1410
Therefore Time taken by U to complete the whole work = 1/(U's efficiency) = 1/12k = 1410/12 = 235/2 days

Q66. Answer: (b) 91

Given:
A train is moving at the speed of 90 km/hr
Concept used:
• Speed = Distance/Time
• km/hr × 5/18 = m/s
Calculation:
=> 90 × 5/18 = 2275/Time
=> 25 = 2275/Time
=> Time = 91 sec

Therefore The correct answer is 91 sec

Q67. Answer: (b) 2012

No. of deaths in 2012 compared to the previous year = 8500 – 2000 = 6500
No. of deaths in 2013 compared to the previous year = 4000 – 8500 = -4500
No. of deaths in 2014 compared to the previous year = 3500 – 4000 = -500
No. of deaths in 2015 compared to the previous year = 1000 – 3500 = -2500
No. of deaths in 2016 compared to the previous year = 500 – 1000 = -500
No. of deaths in 2017 compared to the previous year = 6500 – 500 = 6000
Therefore the required answer is 2012

Q68. Answer: (c) 7500

Therefore Difference in the number of deaths between 2012 and 2015 = 8500 – 1000 = 7500

Q69. Answer: (c) 62.5%

Therefore The no. of deaths in 2017 were greater than that in 2013 by = (6500 - 4000)/4000 × 100 = 62.5%

Q70. Answer: (d) 175

Therefore Total insurance amount paid = 3500 × 500000 = 175 crore

Q71. Answer: (b) 17

Given:
Area = 120 cm^2, B = 8 cm and D = ?
Concept used:
• Area of rectangle = Length × Breadth
• $Diagonal^2 = Length^2 + Breadth^2$
Calculation:
=> 120 = L × 8
=> L = 15 cm
$D^2 = L^2 + B^2$
=> $D^2 = 15^2 + 8^2$
=> $D^2 = 225 + 64$
=> $D^2 = 289$
Therefore D = 17 cm

Q72. Answer: (a) 8

Concept used:
• The interior angle of a regular polygon = exterior angle of polygon + 90°
• Each interior angle of a regular polygon = 180° – (360°)/N
• Each exterior angle of a regular polygon = 360°/N
Calculation:
Let no. of sides of the given polygon is N
=> 180° – (360°)/N = (360°)/N + 90°
=> 180° – 90° = (360°)/N + (360°)/N
=> (720°)/N = 90°
Therefore N = (720°)/(90°) = 8

Q73. Answer: (b) 2425.5

Given:
The diameter of the hemisphere is 21 cm
Formula used:
Volume of hemisphere = (2/3) × πr^3
Diameter = 2 × Radius
Calculation:

The Diameter = 21 cm

So, the radius = 21/2 cm

The volume of Hemisphere = 2/3 × πr³

=> 2/3 × 22/7 × 21/2 × 21/2 × 21/2

=> 4851/2 = 2425.5 cm³

Therefore The volume of the Hemisphere is 2425.5 cm³

Q74. Answer: (a) (2√3 – 1)/√3

Concept used:

Cosec 30° = 2

Calculation:

=> cosec 30° – 1/√3

=> 2 – 1/√3

=>(2√3 – 1)/√3

Therefore The correct answer is (2√3 – 1)/√3

Q75. Answer: (c) 2.4

Concept used:

Hypotenuse² = Perpendicular² + Base²

Calculation:

Cosec X = 13/12 = XZ/YZ

=> (XY)² = (XZ)² – (YZ)²

=> (XY)² = (13)² – (12)² = 169 – 144 = 25

=> XY = 5

tan X = YZ/XY = 12/5

=> YZ/1 = 12/5

Therefore YZ = 2.4 cm

Shortcut Trick

We know, 5, 12, 13 are triplets where 13 is the hypotenuse

cosec X = 13/12 = ZX/YZ, then XY must be 5 unit

Now, according to the question, 5 unit → 1 cm

Then, YZ, 12 unit → 1/5 × 12 = 2,4 cm

Q76. Answer: (c) Marginal productivity of labour is zero

The correct answer is the marginal productivity of labour is zero.

Key Points

• Disguised Unemployment:

• It is a phenomenon wherein more people are employed than actually needed.

• It is primarily traced to the agricultural and unorganised sectors of India.

• The marginal productivity of labour is zero.

Additional Information

• Seasonal Unemployment:

• It is unemployment that occurs during certain seasons of the year.

• Agricultural labourers in India rarely have worked throughout the year.

• Structural Unemployment:

• It is a category of unemployment arising from the mismatch between the jobs available in the market and the skills of the available workers in the market.

• Many people in India do not get the job due to a lack of requisite skills and due to the poor education level, it becomes difficult to train them.

• Cyclical Unemployment:

• It is the result of the business cycle, where unemployment rises during recessions and declines with economic growth.

• Cyclical unemployment figures in India are negligible. It is a phenomenon that is mostly found in capitalist economies.

• Technological Unemployment:

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• It is the loss of jobs due to changes in technology.

• In 2016, World Bank data predicted that the proportion of jobs threatened by automation in India is 69% year-on-year.

• Frictional Unemployment:

• Frictional Unemployment also called Search Unemployment, refers to the time lag between the jobs when an individual is searching for a new job or is switching between the jobs.

Q77. Answer: (c) Medium and small-scale industries

The correct answer is Medium and small-scale industries.

Key Points

• State Financial Corporations

• The State Financial Corporations Act was passed in 1951 which provides power to all the states and union territories to set up State Financial Corporations.

• They are State Level financial institutions that play an important role in the growth of the small and medium enterprises in the concerned states.

• They provide financial assistance by way of granting loans or advances or subscribing to debentures of industrial concerns or by underwriting the stocks, shares, bonds, and debentures.

• At present, there are 18 State Financial Corporations in India.

Q78. Answer: (a) Mihira Bhoja

The correct answer is Mihir Bhoja.

Key Points

• Bhoja/Mihir Bhoja (836-882):

• He was the greatest ruler of the Gurjar Pratihara dynasty

• He was the successor of King Ramabhadra.

• During his reign, the capital was Kannauj (Kannauj Distt., UP).

• During this period Kannauj was also known as Panchala.

• He was a devotee of Vishnu and adopted the title of ‘Adivarah’.

Additional Information

• Watsaraj

• First Pratihar king to occupy Kannauj.

• He defeated Dharmapala of the Gaud Dynasty and was defeated by Dhruva of the Rashtrakuta dynasty.

• Raja Nagbhatta II

• Occupied Kannauj.

• Defeated Dharmapala in the battle of Mudgagiri.

• Defeated by Govinda of Rashtrakuta.

Q79. Answer: (a) Calcutta to Agra

The correct answer is Calcutta to Agra.

Key Points

• Lord Dalhousie opened the first telegraph line from Calcutta to Agra in 1853.

Important Points

• Lord Dalhousie became the governor-general of India in 1849.

• In 1852 he introduced the Electric Telegraph System in India.

• The first telegraph line from Calcutta to Agra was opened in 1854, covering a distance of 800 miles.

• He introduced postage stamps.

• He also cut down postal rates and charged a uniform rate.

Q80. Answer: (a) duration of day and night are equal

The correct answer is duration of day and night are equal.

Key Points

• Equinox

• Equinox comes from the Latin words aequi, which means "equal," and nox, which means "night."

• The equinox is considered the day and night are of equal length.

• The equinoxes happen in March (about March 21) and September (about September 23).

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• These are the days when the Sun is exactly above the Equator, which makes day and night of equal length

Hence, 'Equinox' means equal day and night on the entire Earth

Additional Information

• Vernal equinox (about March 21): day and night of equal length, marking the start of spring

• Summer solstice (June 20 or 21): the longest day of the year, marking the start of summer

• Autumnal equinox (about September 23): day and night of equal length, marking the start of autumn

• Winter solstice (December 21 or 22): the shortest day of the year, marking the start of winter

Q81. Answer: (d) Sri Lanka

The correct answer is Sri Lanka.

Key Points

• Sri Lanka does not has an international border with India. It shares maritime borders with the Maldives and India.

• Gotabaya Rajapaksha is the current president of Sri Lanka.

• Dinesh Gunawardena is the current Prime Minister of Sri Lanka

• Sri Jayewardenepura is the capital of Sri Lanka.

Important Points

• Pakistan:

• It is bordered by India, Afghanistan, Iran, and China.

• Shehbaz Sharif is the current PM of Pakistan.

• Arif Alvi is the current President of Pakistan.

• Gwadar Port, a deep water located in Arabian Sea at Pakistan.

• Bangladesh:

• Sheikh Hasina is the current Prime Minister of Bangladesh.

• Abdul Hamid is the current President of Bangladesh.

• Dhaka is the capital city of Bangladesh.

• Bangladesh is bordered by the Indian states of West Bengal, Assam, Meghalaya, Tripura and Mizoram. It shares an International boundary with Myanmar.

• Bhutan:

• Indian states which share an international border with Bhutan (699 km): Sikkim, West Bengal, Assam, Arunachal Pradesh (4 states shares border with Bhutan)

Q82. Answer: (c) Talwandi

The correct answer is Talwandi.

Key PointsGuru Nanak Dev

• Guru Nanak Dev was born on 15 April 1469 at Talwandi village in the Lahore province of the Delhi Sultanate (present-day Nankana Sahib, Punjab, Pakistan).

• He was the founder of Sikhism and the first of the ten Sikh Gurus.

• Around the age of 55, Nanak Devji settled in Kartarpur and lived there until his death in September 1539.

• Recently Kartarpur Corridor was opened by the Indian and Pakistan governments for Sikh devotees.

• The teaching of Guru Nanak Devji can be found in the Sikh scripture Guru Granth Sahib, as a collection of verses recorded in Gurmukhi which was written by Guru Arjan Dev.

Q83. Answer: (c) Switzerland

Thhe correct answer is Switzerland.

Key Points

• The 48th annual meeting of the World Economic Forum (WEF-2018) was started in Davos, Switzerland on January 22, 2018.

• Prime Minister Narendra Modi led the largest-ever Indian delegation.

• The theme of the 5-day summit was Creating a Shared Future in a Fractured World.

• Which aims to set an agenda to address political, economic and Social challenges of recent times.

• More than 3,000 world leaders from business, politics, art, academia and civil society participated in the summit and the Indian presence was the largest ever with over 130 participants.

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Q84. Answer: (d) Braja Bhushan Mohanty

● Braja Bhushan Mohanty is the boxing coach from Odisha who has been selected to get prestigious Dronacharya Award for the year 2017.

● Dhyan Chand awardees for 2017: Bhupender Singh (Athletics), Syed Shahid Hakim (Football) and Sumarai Tete (Hockey)

Q85. Answer: (c) Vietnam

The correct answer is Vietnam.

Key Points

• List of countries sharing a border with China:

• North Korea, Russia, Mongolia, Kazakhstan, Kyrgyzstan, Tajikistan, Afghanistan, India, Nepal, Bhutan, Myanmar, Laos, Vietnam.

• Taiwan strait separates Taiwan from mainland China.

• Gulf of Tonkin is between Vietnam and China (South).

• China has maritime border disputes in the South China Sea with Taiwan, Brunei, Indonesia, Malaysia, Philippines, and Vietnam.

Additional Information

Country	Capital
Russia	Moscow
Mongolia	Ulaanbaatar
North Korea	Pyongyang
Kazakhstan	Nur Sultan
Kyrgyzstan	Bishkek
Afghanistan	Kabul
Nepal	Kathmandu
Bhutan	Thimpu
Myanmar	Nay Phi Taw
Laos	Vientiane
Vietnam	Hanoi
Tajikistan	Dushanbe

Q86. Answer: (a) Polyester and cotton

The correct answer is Polyester and cotton.

Key Points

• Polycot is a mixture of polyester and cotton.

• Polyester is a category of polymers that contain the ester functional group in their main chain.

• Cotton is a soft, fluffy staple fiber that grows in a boll, or protective case, around the seeds of the cotton plants of the genus Gossypium in the mallow family Malvaceae.

• Wool is the soft wavy or curly usually thick undercoat of various hairy mammals and especially sheep made up of a matrix of keratin fibers and covered with minute scales.

The trick to remember: Polycot clearly says it is a mixture of POLYester and COTton(observe the first letters)

Q87. Answer: (a) Air

The Correct Answer is Air.

• Inexhaustible resources are those resources which are present in unlimited quantity in nature. These include air, clay sand, water and solar energy.

• Inexhaustible resources are available in unlimited quantities on the earth.

While some inexhaustible resources remain virtually unaffected by human impact, many others may show some changes in their quality though their quantity may remain unchanged.

• Such resources may sometime be locally affected by human activities; for example, pollution may change the quality of air.

• Air is inexhaustible since they are the natural resources and are available in abundant abundance.

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Q88. Answer: (c) Article 32

The correct answer is Article 32.

Key Points

• Article 32 is the most important article of the Indian Constitution.

• Article 32 was called the “soul of the constitution and very heart of it” by Dr Ambedkar.

• Article 32 of the Indian Constitution gives the right to individuals to move to the Supreme Court to seek justice when they feel that their right has been 'unduly deprived'.

• It is also known as Right to Constitutional Remedies.

Additional Information

• Article 21: Protection of Life and Personal Liberty

• This article declares that no person shall be deprived of his life or personal liberty except according to the procedure established by law.

• This right is available to both citizens and non-citizens.

• The right to life is not merely confined to animal existence or survival but also includes the right to live with human dignity and all those aspects of life which go to make a man’s life meaningful, complete, and worth living.

• Article 24 – Prohibition of employment of children in factories, etc.

• Article 24 says that “No child below the age of fourteen years shall be employed to work in any factory or mine or engaged in any other hazardous employment.”

• This Article forbids the employment of children below the age of 14 in any hazardous industry or factories or mines, without exception.

• However, the employment of children in non-hazardous work is allowed.

• Article 256

• The obligation of States and the Union The executive power of every State shall be so exercised as to ensure compliance with the laws made by Parliament and any existing laws which apply in that State, and the executive power of the Union shall extend to the giving of such directions to a State as may appear to the Government of India to be necessary for that purpose.

Q89. Answer: (c) 1/3

The correct answer is 1/3.

Key Points

According to article 243-T of the Indian Constitution, not less than one-third of the total number of seats to be filled by direct election in every Municipality shall be reserved for women.

Additional Information

• A municipality is established in towns with a population of 20,000 to one lakh.

• Its member number can be a minimum of 15 and a maximum of 40.

• The administrative head of the municipality is the Chief Executive Officer (CMO)

• CMO is elected by the state service and appointed by the state government.

• Important Articles Related to Urban Local Government:

Article 243Q	**Constitution of Municipalities**
Article 243R	Composition of Municipalities
Article 243S	Composition of Wards Committees
Article 243T	Seats Reservation
Article 243U	Duration of Municipalities
Article 243V	Provisions for Disqualifications
Article 243X	Powers to impose taxes
Article 243ZA	Elections to the Municipalities
Article 243ZD	Constitution of District Planning Committee.
Article 243ZE	Constitution of Metropolitan Planning Committee.

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Q90. Answer: (a) Only I and II

The correct answer is Only I and II.

Key Points

• Plants take nitrogen from the soil by absorption through their roots as nitrate ions, nitrite ions, or ammonium ions.

• Most nitrogen obtained by terrestrial animals can be traced back to the eating of plants at some stage of the food chain.

• Plants take up nitrogen compounds through their roots. Nitrifying bacteria in the soil convert ammonia into nitrite (NO2 –) and then into nitrate (NO3 –). This process is called nitrification.

• Besides plants also take up nitrogen in organic form Several organic compounds (compounds containing carbon) compose the organic fraction of nitrogen in the soil.

• Soil organic matter exists as decomposing plant and animal residues, relatively stable products of decomposition-resistant compounds and humus.

• Plant roots themselves can affect the abundance of various forms of nitrogen by changing the pH and secreting organic compounds or oxygen.

Q91. Answer: (c) Father = Mother

The correct answer is Father = Mother

Key Points

• A child inherits EXACTLY 50% of the chromosomes from each of both parents.

• All mitochondrial genes are inherited only from the mother.

• Thus a child receives only close to half of the genes from the father and a little bit more than half of the genes from the mother.

• This is achieved through sexual fertilization, requiring the meeting of the sperm with the egg, and the combining of the DNA from both (since the sperm and egg contain only half the genetic information in the parent).

• This ensures that families maintain some genetic identity, but also that a child must be genetically different from either parent or from any of their four grandparents.

Q92. Answer: (c) Express

The correct answer is Express.

Key Points

• The Government of India has launched a new sub-scheme named “Aajeevika Grameen Express Yojana (AGEY)” as part of the DeenDayal Antyodaya Yojana – National Rural Livelihoods Mission (DAY-NRLM).

• AGEY will help to provide safe, affordable and community monitored rural transport services to connect remote villages with key services and amenities (For example: access to markets, education and health).

Q93. Answer: (b) 14

The correct answer is 14.

Key Points

• SARAS PT1N, the new upgraded version of indigenous transport aircraft SARAS developed by National Aeronautics Laboratory (NAL) successfully made its maiden flight in Bengaluru, Karnataka.

• SARAS PT1N is a 14-seater passenger aircraft designed and developed by CSIR-NAL, a frontline aerospace research laboratory.

• The production version aircraft will have 19-seat capacity.

Q94. Answer: (b) 49.40%

The correct answer is 49.40%.

Key Points

• In economics, the debt-to-GDP ratio is the ratio between a country's government debt (a cumulative amount) and its gross domestic product (GDP) (measured in years).

• Generally, a low debt-to-GDP ratio is a measure of a healthy economy that produces and sells goods and services without accumulating future debts.

• India’s public debt-to-GDP ratio has remained stable at 70% since 1991.

• The debt-to-GDP ratio for the financial year 2016-2017 was 49.40%.

Q95. Answer: (b) National Commission on Backward Classes

The correct answer is National Commission on Backward Classes.

Key Points

• Lok Sabha has passed Constitution 123^(rd) Amendment Bill, 2017 which seeks to give constitutional status to National

Commission for Backward Classes.

• It seeks to insert a new article 338B in the constitution which provides for NCBC, its composition, mandate, functions and various officers.

Additional Information

• National Human Rights Commission

• The National Human Rights Commission (NHRC) of India was established on 12 October, 1993.

• The statute under which it is established is the Protection of Human Rights Act (PHRA), 1993 as amended by the Protection of Human Rights (Amendment) Act, 2006.

• The Commission consists of a Chairperson, five full-time Members and seven deemed Members.

• Finance Commission:

• Finance Commission is a constitutional body.

• Finance Commission was constituted to recommend the distribution of the net proceeds of taxes between the Centre and states, and among the states.

• It was established under Article 280 of the Indian Constitution.

• The Commission was constituted for every five years by the President.

• The Commission consists of five members including the chairperson.

• National Commission for Women:

• The National Commission for Women (NCW) is a legislative body of the Indian government tasked with providing advice to the government on all policy issues concerning women.

• It was created on January 31, 1992, under the Indian Constitution, as specified by the National Commission for Women Act of 1990.

• Jayanti Patnaik was the commission's first chairperson.

• The NCW's mission is to advocate for women's rights in India and to give a voice to their issues and concerns.

Q96. Answer: (b) 810

As current flows through a resistor, the resistor heats up. The heat in joules is given by:

$H = I^2RT$

Where H is heat generated, I is Current, R is resistance and T is the time in seconds

$H = 0.3^2 \times 900 \times 10$

$H = 0.09 \times 900 \times 10$

$H = 810J$.

Q97. Answer: (c) Non-uniform

The correct answer is Non-uniform.

Key Points

• Non-Uniform motion: when an object covers unequal distances in the equal time interval of time said to be in non-uniform motion. Here acceleration is non- zero.

Additional Information

• Uniform motion: when an object covers an equal distance in an equal time interval of time said to be in uniform motion. Here acceleration is zero.

• Equilibrium:

• When all the forces on an object cancel each other out, it is said to be in equilibrium.

• Linear:

• Linear motion involves an object moving from one point to another in a straight line.

• A ball thrown straight up and falling back straight down is an example of linear motion.

Q98. Answer: (d) weather

The correct answer is weather.

Key Points

• The day-to-day condition of the atmosphere at a place with respect to the temperature, humidity, rainfall, wind speed, etc., is called the weather at that place.

• Weather is the state of the atmosphere, describing, for example, the degree to which it is hot or cold, wet or dry, calm or stormy, clear or cloudy.

Additional Information

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• Climate:

• Climate refers to the sum total of weather conditions and variations over a large area for a long period of time (more than thirty years).

• Ecology:

• The term ecology is derived from the Greek word ‘oikos’ meaning ‘house’, combined with the word ‘logy’ meaning the ‘science of’ or ‘the study of ’.

• Literally, ecology is the study of the earth as a ‘household’, of plants, human beings, animals and micro-organisms.

Q99. Answer: (c) A and C

The correct answer is A and C.

Key Points

• IPL 2017: Glenn Maxwell (Australia) was the captain of Kings XI Punjab. (Hence statement A is correct)

• Bernhard Langer (Germany) won the Golf 2017 Senior PGA Championship. (Hence statement C is correct)

• Fan Zhendog (China) won the Table Tennis 2017 ITTF World Tour Grand Finals Men's Singles. (Hence statement B is incorrect)

Q100. Answer: (c) Status bar

The correct answer is Status bar.

Key Points

• The status bar is the area at the bottom of the Word window that indicates information about the current document.

• It displays information about what page you are on, as well as your line number on the page and character number on the line.

Additional Information

• Menu Bar: Provides menu options like File, Edit, View, etc.

• Standard Toolbar: Contains tools for standard tasks, like saving, printing, cutting, copying, pasting, etc.

• Formatting Toolbar: Provides tools for formatting like bold, italic, underline, etc.

• View Buttons: Provides options to switch between Normal, Web Layout, Print Layout, Outline and Reading views.

• Tab stop: A position we set for placing and aligning text on a page.

• Drawing ToolBar: Provides tools for drawing basic shapes, inserting pictures, changing colours, etc.

• Status Bar: This provides information about the current document.

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