SSC CHSL Previous Paper 37 (Held On: 20 March 2018 Shift 3) (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, 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'.

Of all the forts (1)/ that I've visit in India, (2)/ Daulatabad Fort is my favourite. (3)/ No error (4)

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

Q2. 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 Bench will also have to say (1)/ whether the laws are really at consonance with (2)/ the basic tenets of the 1960 Act. (3)/ No error (4)

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

Q3. 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.

A paragraph _____ number of sentences grouped together.

(a) Could be a
(b) Was
(c) Would be
(d) Is a

Q4. 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.

What would you have done if you _____ the band?

(a) Was in
(b) Is in
(c) Will be in
(d) Were in

Q5. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Carouse

(a) Quaff
(b) Grieve
(c) Overlook

(d) Ignore

Q6. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Clement

(a) Irritate
(b) Cold
(c) Clingy
(d) Mild

Q7. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Artifice

(a) Truthfulness
(b) Trick
(c) Skill
(d) Scheme

Q8. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Extant

(a) Extinct
(b) Present
(c) Immediate
(d) Around

Q9. Rearrange the parts of the sentence in correct order.

Sociologists believe

P: that the reason why honour killings

Q: of the continued rigidity of the caste system

R: continue to take place is because

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

Q10. 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 mechanic uses old spare parts for the car.

(a) Old spare parts were used for the car by the mechanic.
(b) Old spare parts was used for the car by the mechanic.
(c) Old spare parts is being used for the car by the mechanic.
(d) Old spare parts are used for the car by the mechanic.

Q11. 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.

The visitor enquired, “When is the next train?”

(a) The visitor enquired about the next train.
(b) The visitor enquired when the next train was.
(c) The visitor asked when is the next train.
(d) The visitor was interested in the next train.

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Q12. 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) Acquittied
(b) Acquitted
(c) Ecquited
(d) Acqiuteed

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.

Left to itself, then, attention _____ obeys natural laws and follows the line of least resistance. _____ far the larger portion of our attention is of this type. Thought often runs on hour after hour when we are neither conscious of effort _____ struggle to compel us to cease thinking about this thing and begin thinking about _____. Indeed, it may be doubted _____ this is not the case with some persons for days at a time, instead of hours. The things that present themselves to the mind are the things which occupy it; the character of the thought is determined by the character of our interests.

Q13. Left to itself, then, attention _____ obeys natural laws

(a) Simple
(b) Simply
(c) Simplification
(d) Simplicity

Q14. least resistance. _____ far the larger portion

(a) By
(b) With
(c) Along
(d) Such

Q15. conscious of effort _____ struggle to compel

(a) No
(b) Not
(c) None
(d) Nor

Q16. thinking about _____. Indeed,

(a) This
(b) These
(c) Them
(d) That

Q17. be doubted _____ this is not the case

(a) Weather
(b) Wither
(c) Wether
(d) Whether

Q18. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Ring-fencing

(a) The place where the sport of fencing is played by two opponents.
(b) Doubly protecting your assets.
(c) Guarantee that funds allocated for a particular purpose will not be spent on anything else.
(d) Be ready to fight for what is your right.

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Q19. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Keep your chin up

(a) Behave arrogantly in front of elders.
(b) Keep your self respect at all times.
(c) Remain cheerful in difficult circumstances.
(d) Pretend to be good when you have an evil plan.

Q20. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Be deprived of property or a right or privilege as a penalty for wrongdoing

(a) Forfeited
(b) Endow
(c) Render
(d) Assign

Q21. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Absolve someone from blame for a fault or wrongdoing

(a) Indict
(b) Exonerate
(c) Allege
(d) Slur

Q22. 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".

He (has to develop) self-confidence, so leave him alone.

(a) Have to develop
(b) Are to develop
(c) Has to be developed
(d) No improvement

Q23. 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".

The music (soothe) me and I stroll on happily.

(a) Soothing
(b) Soothes
(c) Had soothed
(d) No improvement

Q24. 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.

There is an

A: a telephonic talk could never replicate

B: instant rapport in the written

C: communication which the printed message or

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

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Q25. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) Bifurckated
(b) Biffurcated
(c) Biffurckated
(d) Bifurcated

GENERAL INTELLIGENCE

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

Saw : Carpenter :: ? : ?

(a) Pen : Soldier
(b) Sword : Sculptor
(c) Scalpel : Plough
(d) Axe : Woodcutter

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

69 : 87 :: ? : ?

(a) 77 : 97
(b) 117 : 135
(c) 95 : 107
(d) 121 : 145

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

SQM : RPL :: ? : ?

(a) KCN : JBO
(b) DQA : CPB
(c) BSU : ART
(d) PYC : OXD

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

(a) Red
(b) Green
(c) White
(d) Painting

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 pairs.

(a) 16 - 32
(b) 24 - 48
(c) 36 - 72
(d) 32 - 66

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

(a) GEC
(b) NLJ
(c) OMK
(d) YWN

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

1. Clump 2. Clown 3. Climax 4. Clumsy 5. Climb

(a) 32541
(b) 41523

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(c) 35214
(d) 45213

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

2, 3, 4, 9, 16, 29, 54, ?

(a) 109
(b) 99
(c) 87
(d) 117

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

E, I, M, ?, U, Y

(a) Q
(b) R
(c) T
(d) S

Q35. Present age of R and S are in the ratio of 3 : 2 respectively. If the present age of H is 117 years and R's present age is 4/13 of H's present age, then after how many years the ages of R and S would be in the ratio of 15 : 11?

(a) 9
(b) 6
(c) 7
(d) 8

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

Represhensible

(a) Repair
(b) Hen
(c) Rise
(d) Ripe

Q37. In a certain code language, "FUMIC" is written as "6211393" and "STEAM" is written as "19205113". How is "PROP" written in that code language?

(a) 714812
(b) 6159134
(c) 16181516
(d) 1271418

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

20 ÷ 12 - 30 + 10 × 10 = ?

(a) 8
(b) 25
(c) 14
(d) 21

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

32 ÷ 16 - 5 × 8 + 2 = 13

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

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Q40. If 6@16 = 11, 2@14 = 8 and 8@8 = 8, then find the value of 10@18 = ?

(a) 4
(b) 6
(c) 12
(d) 14

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

BAAAAABA, BAAAABAA, BAAABAAA, BAABAAAA, BABAAAAA, _____.

(a) BAAAAAAB
(b) BAAAAABA
(c) BBAAAAAA
(d) BAAAABAA

Q42. An old man starts his daily walking routine. He walks 2 km East, then turns North and walks 1 km, then turns West and walks 2 km, then turns to his right and walks 1.5 kms. Where is he now with respect to the starting position?

(a) 0.5 km North
(b) 2.5 km South
(c) 0.5 km South
(d) 2.5 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: No taps are nozzles

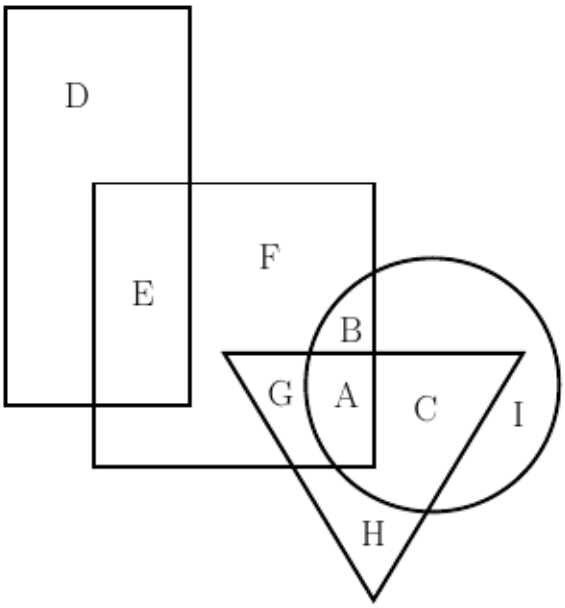
Statement II: Some valves are taps

Conclusion I: All nozzles are valves

Conclusion II: All valves are nozzles

(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 Hairstylists, circle represents Racers, triangle represents Divers and square represents Fathers. Which set of letters represents fathers who are Divers?



(a) BA
(b) AC
(c) HA

(d) GA

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

RFT, QDQ, PBN, OZK, ?

(a) LVF
(b) KUE
(c) MWG
(d) NXH

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

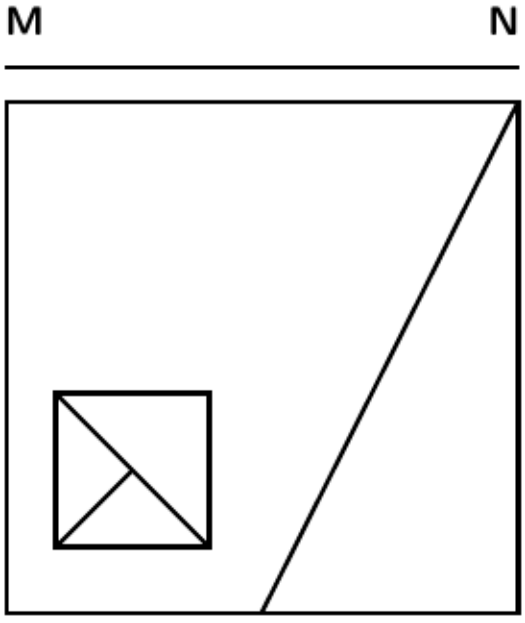
52, 41, 32, 25, ?, 17

(a) 21
(b) 20
(c) 18
(d) 19

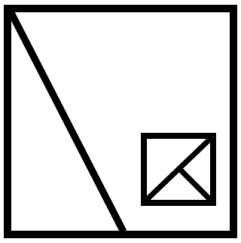
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (6, 19, 30)
(b) (9, 29, 45)
(c) (11, 34, 55)
(d) (13, 40, 65)

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

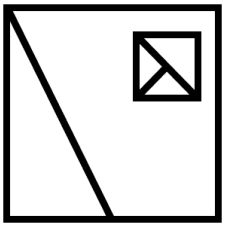


(a)

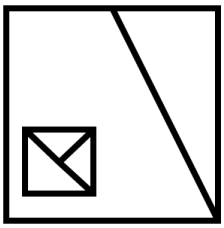


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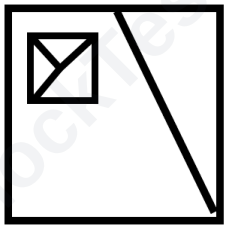
(b)



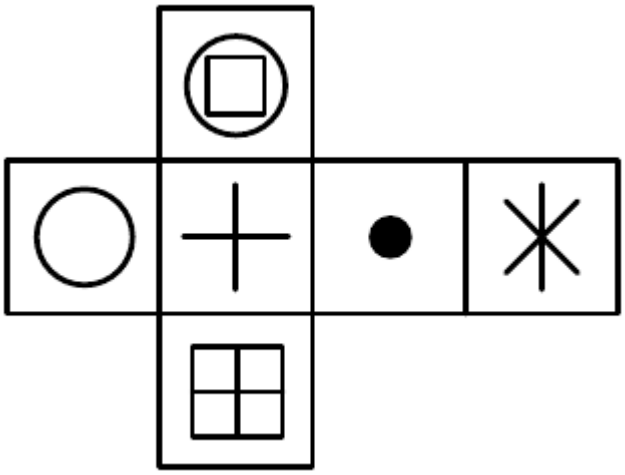
(c)



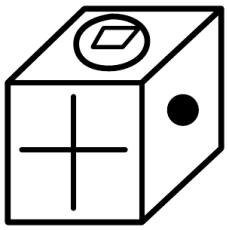
(d)



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

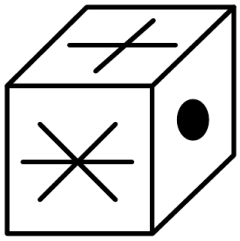


(a)

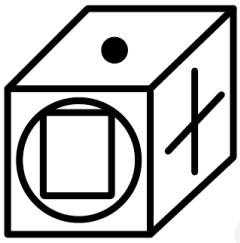


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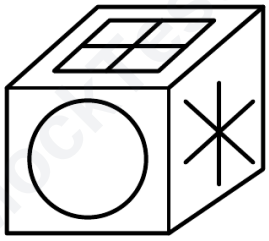
(b)



(c)



(d)



Q50. A word is represented by onlt one set of numbers as given in any one of the alternatives. The set 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 coulmn, for example ‘C’ can be represented by 23, 40 etc and ‘X’ can be represented by 66, 96 etc. Similarly, you have to identify the set for the word ‘DUNG’.

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

(a) 31, 76, 24, 96
(b) 20, 59, 41, 88
(c) 33, 68, 31, 75
(d) 42, 57, 75, 11

QUANTITATIVE APTITUDE

Q51. Find the unit place digit in the expression (159)^(144) + $(114)^{123}$ - (110)^(510) + (213)^(25)

(a) 3
(b) 4
(c) 7
(d) 8

Q52. If 256/0.256 = 25.6/x then what will be the value of x?

(a) 2.56
(b) 25.6
(c) 0.256
(d) 0.0256

Q53. If x = √15√15√15√15 … .∞ and x > 0, then find the value of $x^2 + 4$

(a) 125
(b) 179
(c) 200
(d) 229

Q54. The two equations x – 4y = 0 and 4x + 3y = 19 have a solution (a, b). Find the value of ab/(a + 4b).

(a) 1/4
(b) 1/2
(c) 1
(d) 23

Q55. Which of the following statement is CORRECT about a triangle?

(a) If the triangles are congruent then their area will be equal.
(b) If the areas of two similar triangles are equal then the triangle is congruent.
(c) Two congruent triangles are always similar to each other.
(d) All options are correct

Q56. Classify the triangle as a type of triangle if the sides of the triangle are 6, 12 and 13 units.

(a) Right angled triangle
(b) Obtuse angled triangle
(c) Acute angled triangle
(d) None of these

Q57. Weight of Ayush and Abhishek are in the ratio of 6 : 11. Abhishek's weight increases by 25% and total weight of Ayush and Abhishek both increases by 40%. If total weight becomes 119 kg, then what is the weight (in kg) of Ayush after the increment?

(a) 45.5
(b) 30
(c) 50.25
(d) 47.75

Q58. A box consist of 5 rupees, 2 rupees and 1 rupee coins and their value are in the ratio of 15 : 4 : 2 respectively. If there are total 112 coins, then how many 2 rupees coins are there in the box?

(a) 32
(b) 48
(c) 64
(d) 24

Q59. A mixture contains liquid A and liquid B in the ratio of 5 : 4. If 2 litres of liquid B is added to it, then the ratio of liquid A and liquid B becomes 7 : 6. What is the quantity (in litres) of liquid A in the mixture?

(a) 32
(b) 35
(c) 40
(d) 42

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Q60. Average of 10 numbers is 14. If each number is multiplied by 6, then what will be the new average?

(a) 70
(b) 84
(c) 56
(d) 92

Q61. The simple interest on a sum is 5/9 of the principal for 25 years. What is the rate (in percentage) of interest per annum?

(a) 25/9
(b) 9/2
(c) 20/9
(d) 15/4

Q62. If selling price and cost price of an article are Rs. 684.25 and Rs. 595 respectively, then what is the profit percentage?

(a) 15
(b) 10
(c) 12.5
(d) 20

Q63. The marked price of a book is Rs. 4200. The shopkeeper gives two successive discounts of 25% and y% to the customer. If the customer pays Rs. 2898 for the book, then what is the value (in percentage) of y?

(a) 7
(b) 8
(c) 6
(d) 5

Q64. What is the value of [(√529) + (√5.29) + (√0.0529)]?

(a) 25.323
(b) 25.53
(c) 23.253
(d) 23.53

Q65. P and Q undertook to do a work for Rs. 7200. P alone could do it in 20 days and Q alone in 12 days. With the assistance of R they finished the work in 5 days. What is the share (in Rs) of R?

(a) 1800
(b) 2400
(c) 2800
(d) 2600

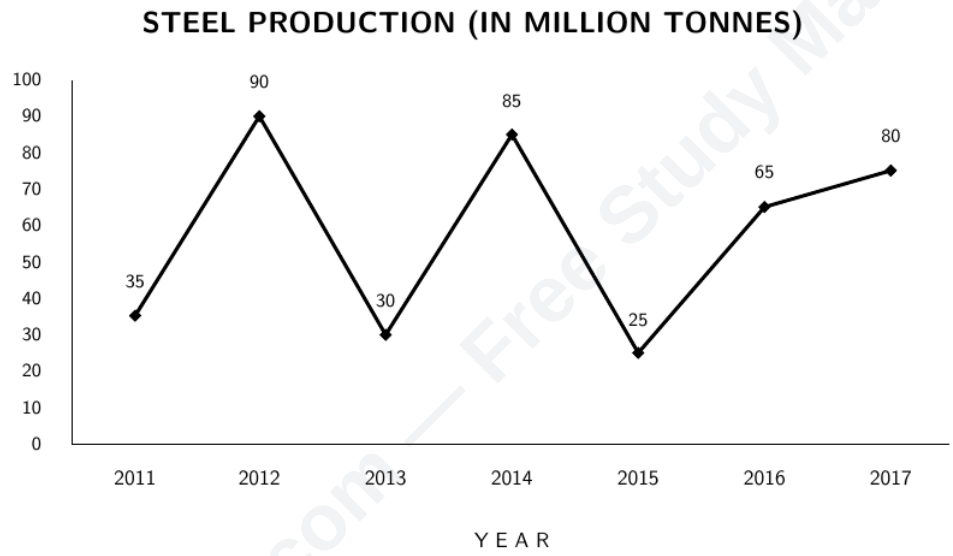
Q66. A boat covers 143 km upstream in 13 hours and the same distance downstream in 11 hours. What is the speed (in km/hr) of the boat in still water?

(a) 10
(b) 12
(c) 14
(d) 8

Directions

Direction: The line graph shows the production of steel of a certain country. Study the diagram and answer the following questions.

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Q67. In which year was the steel production lesser than that of the previous year?

(a) 2013
(b) 2014
(c) 2012
(d) 2016

Q68. What was the difference (in million tonnes) in the steel production between the years 2011 and 2015?

(a) 10
(b) 5
(c) 15
(d) 20

Q69. By what percent the steel production in 2012 was greater than that of 2015?

(a) 80%
(b) 73.6%
(c) 200%
(d) 260%

Q70. If 1 tonne of steel costs Rs. 30,000, then what was the cost (in Rs billion) of the steel production in the year 2017?

(a) 240
(b) 3000
(c) 2400
(d) 300

Q71. The perimeter of a square is 26 cm. Find its area (in cm^2).

(a) 42.25
(b) 84.5
(c) 39.25
(d) 78.5

Q72. The area of a circle is 616 cm^2. Find its radius (in cm).

(a) 14
(b) 28
(c) 11
(d) 22

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Q73. Find the surface area (in cm²) of a sphere whose diameter is 14 cm.

(a) 616
(b) 910
(c) 511
(d) 1025

Q74. What is the value of (1/√3 – sin 45°)?

(a) 1/2√3
(b) (√2 – √3)/√6
(c) 1 – √2
(d) (4 – √3)/2

Q75. In ΔPQR measure of angle Q is 90°. If cotP = 8/15, and PQ = 4 cm, then what is the length (in cm) of side PR?

(a) 8.5
(b) 7.5
(c) 5
(d) 4

GENERAL AWARENESS

Q76. Voting rights in the IMF are distributed on the basis of _____.

(a) one country one vote
(b) proportion to the share of the income of the country in the world income
(c) proportion of contributions given by each country
(d) proportion to quota allotted to countries from time to the time

Q77. The purpose of land reforms was to achieve _____.

(a) increase in production
(b) increase the purchasing power of the rural population
(c) ensure distributive justice with economic growth
(d) All options are correct.

Q78. What is called the residual eroded mounds sporadically located in Karst Plains?

(a) Monadnock
(b) Pediplain
(c) Hum
(d) No option is correct.

Q79. Which of the following rivers of peninsular India is distinct from the remaining three?

(a) Narmada
(b) Cauvery
(c) Krishna
(d) Godavari

Q80. Couple burial was found in which of the following Harappan sites?

(a) Mohenjodaro
(b) Harappa
(c) Chanhudado
(d) Lothal

Q81. The Indian Council of 1892 Act was based on which plan?

(a) Northbrook Plan
(b) Dufferin Plan
(c) Ripon Plan
(d) Gladstone Plan

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Q82. In which area did Nandalal Bose earn fame?

(a) Painting
(b) Folk Art
(c) Dance
(d) Politics

Q83. Which country in October 2017 announced to allow women into three sports stadium for the first time from 2018?

(a) UAE
(b) Qatar
(c) Saudi Arabia
(d) Kuwait

Q84. In January 2018, Aziz Ansari became the first Indian-American and first Asian to win a Golden Globe award for which comedy series?

(a) Parent Trap
(b) Running North
(c) Master of None
(d) Gone with the wind

Q85. Who among the following is the author of Sri Lanka's national anthem?

(a) Ananda Samarkand
(b) Kumaratunga Munidasa
(c) Siri Gunasinghe
(d) P. B. Jayasekara

Q86. Which of the following group does NOT follow Newlands Law of Octaves?

(a) Li, Na
(b) Be, Mg
(c) C, Si
(d) Mn, Hg

Q87. Which of the following is an example of the compound?

(a) Manganese
(b) Air
(c) Ozone
(d) Ammonia gas

Q88. Which Schedule of Indian Constitution was added by 73^(rd) Constitutional Amendment Act?

(a) Eight Schedule
(b) Ninth Schedule
(c) Tenth Schedule
(d) Eleventh Schedule

Q89. In India, which among the following can be amended by Special Majority of Parliament and Consent of States?

I. Election of President and its manner
II. Any of the lists in Seventh Schedule
III. Amendment in Fundamental Right

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

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Q90. Blood is a connective tissue embedded in which type of intercellular matrix?

(a) Jelly-like
(b) Fluid
(c) Dense
(d) No option is correct

Q91. Slow-growing large colored patches on the bark of trees are the examples of symbiotic life forms called _____.

(a) Aphids
(b) Egrets
(c) Lichens
(d) Shrimps

Q92. On 17 October 2017, who launched the online Campaign ‘women for women:#IAmThatWomen’ to end gender bias?

(a) Nirmala Sitharan
(b) Sushma Swaraj
(c) Sonia Gandhi
(d) Maneka Gandhi

Q93. India was declared free from which infective eye disorder on 9 December 2017?

(a) Blepharitis
(b) Chalazia
(c) Pinkeye
(d) Trachoma

Q94. On 25 October 2017, the government announced a recapitalization plan for state-owned banks. How much amount was announced for Banks’ recapitalization?

(a) Rs. 3.11 lakh crore
(b) Rs. 5.1 lakh crore
(c) Rs. 2.11 lakh crore
(d) Rs. 7 lakh crore

Q95. On 22 November 2017, the cabinet approved the expansion of "Beti Bacho Beti Padhao" for a Pan India coverage in how many districts of the country?

(a) 640
(b) 820
(c) 1000
(d) 1100

Q96. What is the heat generated (in J) in a heating element of resistance 800 Ω when a current of 0.2 A passes through it for 40 seconds?

(a) 6400
(b) 1280
(c) 640
(d) 3200

Q97. When an object is thrown vertically upwards, at its maximum height its _____.

(a) potential energy is zero
(b) momentum is maximum
(c) kinetic energy is zero
(d) gravitational force is maximum

Q98. _____contributes towards global warming so it is called a greenhouse gas.

(a) Oxygen
(b) Nitrogen
(c) Hydrogen

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(d) Methane

Q99. Which of the statements given below are correct?

A) United Arab Emirates hosted the Tennis 2017 ATP World Tour Finals.

B) In 2017, Per Mertesacker captained the Premier League team Manchester United.

C) In 2017, Stephen Curry played for the NBA team Golden State Warriors.

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

Q100. In Microsoft Excel, Ctrl + right arrow key leads to _____ cell movement on a spreadsheet.

(a) End of column
(b) End of row
(c) One cell Left
(d) One cell right

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) 2

The correct answer is 2.

Key Points

Reading the above sentence we find that:

• The error lies in the second part of the sentence.
• From the context of the sentence, we can infer that the person has already visited the places.
• Therefore the given sentence is in the past tense.
• Thus the verb visit in the second part is wrong and should be changed to visited.
• The verb visited makes the sentence grammatically correct.

Therefore from the above points we can conclude that the correct answer is 2 as the error lies in the second part.

The correct sentence will be: Of all the forts that I've visited in India, Daulatabad Fort is my favourite.

Q2. Answer: (b) 2

The correct answer is 2.

Key Points

Reading the above sentence we find that:

Whether is used incorrectly in the given sentence.

Important Points

• Whether can be used only when two contrasting conditions are explicitly mentioned.
• Example: Whether he will go or not.
• In the given sentence we don't have two contrasting conditions.
• Therefore the correct word to be used here is if.

Thus from the above points we can conclude that the error lies in part 2 of the sentence and therefore it is the correct answer.

The correct sentence will be: The Bench will also have to say if the laws are really at consonance with the basic tenets of the 1960 Act.

Q3. Answer: (d) Is a

The correct answer is Is a.

Key Points

Reading the above sentence we find that:

• We are defining a paragraph and definitions are fixed.
• When we are talking about something that is fixed like a definition we express it in the present tense with certainty.
• Thus the correct option meeting these requirements is 'Is a.'

Thus from the above points, we can conclude that the correct answer is Is a.

The correct sentence will be: A paragraph is a number of sentences grouped together.

Q4. Answer: (d) Were in

It expresses a condition which is doubtful or not factual (like: If I were the Prime Minister). In such cases, we use were with If. Option 4) were in is the correct answer.

Q5. Answer: (a) Quaff

The correct answer is- 'Quaff'

Key Points

• 'Carouse' is a verb and it means 'to enjoy yourself by drinking alcohol and speaking and laughing loudly in a group of people' so that the similar word of 'Carouse' is 'Quaff'. It is the most suitable option here.
• Example: We'd been up carousing till the early hours and were exhausted.
• 'Quaff' is a verb and it means drink (something, especially an alcoholic drink) heartily; to drink something quickly or in large amounts.
• Example: He quaffed pint after pint of good Berkshire ale.
• Hence option 1 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Grieve	feel grief for or because of.
Overlook	fail to notice (something).
Ignore	refuse to take notice of or acknowledge; disregard intentionally.

Q6. Answer: (d) Mild

The correct answer is- 'Mild'

Key Points

• 'Clement' is an adjective and it means mild; inclined to be merciful.
• Example: It's very clement for the time of year.
• Mild is an adjective and it means not severe, serious, or harsh.
• Example: She can't accept even mild criticism of her work.
• Hence option 4 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Irritate	make (someone) annoyed, impatient, or angry.
Cold	of or at a low or relatively low temperature, especially when compared with the human body.

Clingy	(of a person or garment) liable to cling; clinging.

Q7. Answer: (a) Truthfulness

The correct answer is- 'Truthfulness'

Key Points

• 'Artifice' is a noun and it means '(the use of) a clever trick or something intended to deceive' so that the opposite word of 'Artifice' is 'Truthfulness'. It is the most suitable option here.

• Example: Amazingly for Hollywood, she seems almost entirely without artifice.

Hence option 1 is the most appropriate answer here

Additional Information

WORDS	MEANING
Trick	a cunning or skillful act or scheme intended to deceive or outwit someone.
Skill	the ability to do something well; expertise.
Scheme	a large-scale systematic plan or arrangement for attaining a particular object or putting a particular idea into effect.

Q8. Answer: (a) Extinct

The solution is in Hindi. Read it online.

Q9. Answer: (a) PRQ

Believe of = grammatically incorrect phrase. Believe in something or believe something would be correct. Thus, Q can't be first. Similarly, believe continue is incorrect too => only P can be first. Rule out 2) and 3). R can't be last since a sentence can't end with because =. rule out 4). Option 1) PRQ is the correct answer.

Sociologists believe that the reason why honour killings continue to take place is because of the continued rigidity of the caste system.

Q10. Answer: (d) Old spare parts are used for the car by the mechanic.

The correct answer is- 'Old spare parts are used for the car by the mechanic.'

Key Points

• In the given question the sentence 'The mechanic uses old spare parts for the car.' is in 'Active voice' which is in the present indefinite and we know that after converted this sentence into 'Passive voice' the tense will same also should in present indefinite.

• Struture Present indefinite:

• Sub + V1 + s/es + object (Active)

• Object + is/am/are + V3 + by + subject (Passive)

• Let's see the example:

• Reema cleans the floor (Active)

• The floor is cleaned by Reema (Passive)

Hence the correct sentence is- Old spare parts are used for the car by the mechanic.

Q11. Answer: (b) The visitor enquired when the next train was.

No part of the information should be deleted in reported speech. Since the visitor is interested in knowing when i.e. time related, we can't eliminate that part => rule out 1) and 4). Simple present tense (when is) => simple past (was). option 2) The visitor enquired when the next train was is the correct answer.

Notice how was has been moved to the end of the sentence. It is usually done when you change a question to a statement.

Q12. Answer: (b) Acquitted

The correct answer is- 'Acquitted'

Key Points

• 'Acquitted' is a verb and it means 'to decide officially in a law court that someone is not guilty of a particular crime'

• Example: She was acquitted of all the charges against her.

Here, the correct spelling is- Acquitted

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Q13. Answer: (b) Simply

The correct answer is- 'Simply'

Key Points

• Here, word 'obeys' is a verb. So, the blank must contain an adverb to describe the verb.

• 'Simply' is an adverb here. So, simply is the only possible choice.

• 'Simple' is an adjective here. So, it is not the correct answer.

• 'Simplification' and 'Simplicity' are nouns here. So, it is also not the correct answer.

• So, according to above explanation adverb 'Simply' is the correct answer.

Therefore, the correct sentence is- Left to itself, then, attention simply obeys natural laws.

Additional Information

• There are some words that end with '-ly' but are not adverbs.

• For example- Family, early, likely, supply, apply, daily, lovely, holy, rely, silly etc.

Q14. Answer: (a) By

A comparison is being made. The sentence says that a large part is of this type. And that too by a big difference or amount. by far = a phrase used to imply this. By far = by a great amount. Option 1) By is the correct answer.

Q15. Answer: (d) Nor

The correct answer is 'Nor'.

Key Points

• 'Nor' is used to connect two negative clauses in a sentence, creating a parallel negative structure without the need to repeat the negation word such as "not."

• In the given sentence structure, "conscious of effort" represents the first negative scenario. The conjunction 'Nor' effectively introduces the second negative component "struggle to compel us to cease thinking about this thing and begin thinking about that."

• The correct use of 'Nor' in this context highlights the absence of both effort and struggle, emphasizing that the flow of thoughts is undirected and effortless.

• This usage adheres to the correct grammatical rule for pairing negative constructs, where 'Nor' is the appropriate choice to link two ideas or conditions that are both lacking.

• The choice of 'Nor' facilitates a smooth and logical continuation of the idea being expressed in the sentence, ensuring clarity and coherence in the message about the nature of unforced attention and thought.

• The overall sentence with 'Nor' correctly filled in emphasizes how thought can proceed without conscious control or opposition, in a natural and unobstructed manner.

Therefore, the correct answer is 'Option 4'.

Additional Information

• 'No' is primarily used as a determiner or adverb but does not function correctly to connect two negative clauses.

• 'Not' is used to make a clause negative but cannot link two negative clauses in the way required for the sentence structure.

• 'None' is a pronoun referring to 'not one' or 'not any' and doesn't suit the structure that requires a conjunction.

• Understanding the correct use of 'Nor' in context is essential for proper sentence construction, especially in formal or written English where precision is crucial.

Q16. Answer: (d) That

Cease = stop. Notice how the sentence is written. Stop thinking about this thing. If you actually stop thinking about this thing, you will start thinking about some other thing i.e that thing (vague). Option 4) That is the correct answer.

Q17. Answer: (d) Whether

The correct answer is 'Whether'.

Key Points

• In this context a doubt is being expressed.

• Whether- used when someone does not know which of the two possibilities is true.

• For example- She asked me whether I was married.

• So, according to given explanation 'whether' is the correct option.

Therefore, the correct sentence is- be doubted whether this is not the case.

Additional Information

• Let's see the uses of other options also.

• Weather- The state of the atmosphere at a particular place and time as regards heat, cloudiness, dryness, sunshine, wind, rain, etc.

• Wither- Fall into decay or decline.

• wether- Castrated male sheep or goat.

Q18. Answer: (c) Guarantee that funds allocated for a particular purpose will not be spent on anything else.

The correct answer is- 'Guarantee that funds allocated for a particular purpose will not be spent on anything else.'

Key Points

• 'Ring-fencing' is an idiom and it means 'to put restrictions on it so that it can only be used for a particular purposer'

• Example: The Treasury has now agreed to ring-fence the money to ensure that it goes directly towards helping elderly people.

Hence option 3 is the most appropriate answer here.

Q19. Answer: (c) Remain cheerful in difficult circumstances.

The correct answer is- 'Remain cheerful in difficult circumstances.'

Key Points

• 'Keep your chin up' is an idiom and it means 'to encourage someone not to give up or. give in, and remain cheerful despite a difficult situation.'

• Example: Keep your chin up! Things will get better soon.

Hence option 3 is the most appropriate answer here.

Q20. Answer: (a) Forfeited

The correct answer is Option 1)

Explanation:

• Forfeited means a fine or penalty for wrongdoing

• Endow means give or bequeath an income or property to (a person or institution).

• Render means provide or give (a service, help, etc.)

• Assign means allocate (a job or duty)

Thus, the correct answer is forfeited

Q21. Answer: (b) Exonerate

Option 2) Exonerate (clear from a wrongdoing or crime) is the correct answer.

Indict = formally accuse of or charge with a crime.

Allege = laim or assert that someone has done something illegal or wrong, typically without proof.

Slur = speak (words) indistinctly so that the sounds run into one another.

Q22. Answer: (d) No improvement

Have or Are with he will be grammatically incorrect => rule out 1) and 2). The sentence is in the present tense => rule out 3). Option 4) No improvement is the correct answer

Q23. Answer: (b) Soothes

Here the correct answer is 'Soothes'.

Key Points

• Given sentence is in simple present tense.

• In this context it is said that music gives peace which helps to stroll on happily.

• The music is a singular noun so the correct verb will be soothes.

Therefore, the correct sentence is- The music soothes me and I stroll on happily.

Additional Information

• Soothe - gently calm (a person or their feelings); reduce pain or discomfort in (a part of the body).

• For Example - A shot of brandy might soothe his nerves.

Q24. Answer: (d) BCA

The given part ends with an => only B can be first. Rule out 2) and 3). A sentence can't be ended with or => rule out 1). Option 4) BCA is the correct answer.

There is an instant rapport in the written communication which the printed message or a telephonic talk could never replicate.

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Q25. Answer: (d) Bifurcated

The correct answer is- 'Bifurcated'

Key Points

• 'Bifurcated' is a verb and it means '(of roads, rivers, branches, etc.) to divide into two parts'

• Example: A sample of water was taken from the point where the river bifurcates.

Here, the correct spelling is- Bifurcated

Q26. Answer: (d) Axe : Woodcutter

Given → Saw : Carpenter

The pattern followed here is:-

Tool : Used by

Checking options one by one to find the related word pair.

S.no	Tool	Used by	Related pair or not
1	Pen	Soldier (Pen is not used as a tool by a Soldier)	Pen : Soldier is not a related pair as it doesn't follow the pattern.
2	Sword	Sculptor (Sword is not used as a tool by a Sculptor)	Sword : Sculptor is not a related pair as it doesn't follow the pattern.
3	Scalpel	Plough (Plough is also a tool)	Scalpel : Plough is not a related pair as both Scalpel and Plough are tools and doesn't follow the pattern.
4	Axe	Woodcutter (Axe is used as a tool by a Woodcutter)	Axe : Woodcutter is the related pair as it follows the pattern.

As can be seen clearly from the above that Axe : Woodcutter follows the pattern and thus, is the related pair.

Hence, the correct answer is "Axe : Woodcutter".

Q27. Answer: (b) 117 : 135

Given → 69 : 87

The logic followed here is:-

First number + 18 = Second number

1) In 77 : 97 → 77 + 20 = 97

2) In 117 : 135 → 117 + 18 = 135

3) In 95 : 107 → 95 + 12 = 107

4) In 121 : 145 → 121 + 24 = 145

As can be clearly seen from the above that 117 : 135 follows the logic and thus, is the related pair.

Hence, the correct answer is "117 : 135".

Q28. Answer: (c) BSU : ART

The pattern followed:

In SQM : RPL,

S - 1 = R, Q - 1 = P, M - 1 = L

1) KCN : JBO, K - 1 = J, C - 1 = B, N + 1 = O

2) DQA : CPB, D - 1 = C, Q - 1 = P, A + 1 = B

3) BSU : ART, B - 1 = A, S - 1 = R, U - 1 = T

4) PYC : OXD, P - 1 = O, Y - 1 = X, C + 1 = D

Hence, the related letter pair is BSU : ART.

Q29. Answer: (d) Painting

The logic followed here is:-

1) Red → It is a colour.

2) Green → It is a colour.

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3) White → It is a colour.

4) Painting → It is a practice of applying paint, pigment, color or other medium to a solid surface.

As can be established from the above that all are Colours except Painting and thus, Painting is the odd word among the given alternatives.

Hence, the correct answer is "Painting".

Q30. Answer: (d) 32 - 66

The logic followed here is:-

Number on the left side × 2 = Number on the right side

1) In 16 - 32

16 × 2 = 32

2) In 24 - 48

24 × 2 = 48

3) In 36 - 72

36 × 2 = 72

4) In 32 - 66

32 × 2 = 64 not 66

As can be established from the above that 32 - 66 is the odd one out from the given pairs as it doesn't follow the logic.

Hence, the correct answer is "32 - 66".

Q31. Answer: (d) YWN

The pattern followed here is:-

1) In GEC

2) In NLJ

3) In OMK

4) In YWN

As can be established from the above that YWN doesn't follow the similar pattern and thus, is the odd one out.

Hence, the correct answer is "YWN".

Q32. Answer: (c) 35214

The correct sequence of the given words as they would appear in an English dictionary is shown as follows:-

3. Climax

5. Climb

2. Clown

1. Clump

4. Clumsy

As can be seen from the above that the correct sequence of the given words is 35214.

Hence, the correct answer is "35214".

Q33. Answer: (b) 99

Patter followed in the series,

2 + 3 + 4 → 9

3 + 4 + 9 → 16

4 + 9 + 16 → 29

9 + 16 + 29 → 54

16 + 29 + 54 → 99

Hence, the missing number is 99.

Q34. Answer: (a) Q

The pattern followed in the given series:

E + 4 = I

I + 4 = M

M + 4 = Q

Q + 4 = U

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U + 4 = Y

Hence, the missing term is Q.

Q35. Answer: (a) 9

Let the present ages of R and S be 3x and 2x respectively since their present age is in the ratio 3: 2.

R's present age is 4/13 of H's present age

i.e. 3x = 4/13 × 117

3x = 4 × 9

3x = 36

x = 12

Thus, the present age of R is 3 × 12 = 36 years.

The present age of S is 2 × 12 = 24 years.

Let the no. of years after which the ratio of the ages of R and S would be 15: 11 be z.

Age of R/Age of S = 15/11

36 + z/24 + z = 15/11

(36 + z) × 11 = 15 × (24 + z)

396 + 11z = 360 + 15z

4z = 396 - 360

4z = 36

z = 9

Hence, after 9 years, the ages of R and S would be in the ratio of 15: 11.

Q36. Answer: (a) Repair

Given word → Represhensible

1) Repair → Represhensible → Cannot be formed (Letter 'a' is not present in the given word 'Represhensible')

2) Hen → Represhensible → Can be formed (all the letters are present so, the word 'Hen' can be formed)

3) Rise → Represhensible → Can be formed (all the letters are present so, the word 'Rise' can be formed)

4) Ripe → Represhensible → Can be formed (all the letters are present so, the word 'Ripe' can be formed)

Hence, the correct answer is "Repair".

Q37. Answer: (c) 16181516

The pattern followed here is:-

Each letter is represented by its positional value in alphabetical series.

FUMIC is coded as 6211393

F = 6, U = 21, M = 13, I = 9, C = 3

STEAM is coded as 19205113

S = 19, T = 20, E = 5, A = 1, M = 13

Similarly,

PROP is coded as 16181516

P = 16, R = 18, O = 15, P = 16

Hence, the correct answer is "16181516".

Q38. Answer: (a) 8

Given equation → 20 ÷ 12 - 30 + 10 × 10

Symbol	**×**	**÷**	**•**	**•**
Meaning	•	×	÷	•

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

New equation → 20 × 12 ÷ 30 - 10 + 10

Now, after applying BODMAS Rule, we get:-

20 × 12 ÷ 30 - 10 + 10

20 × 0.4 - 10 + 10

8 - 10 + 10

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18 - 10 = 8

Hence, the correct answer is "8".

Q39. Answer: (b) • and ×

Given equation → 32 ÷ 16 - 5 × 8 + 2 = 13

Checking options one by one by interchanging signs

1) + and ÷

After interchanging, new equation → 32 + 16 - 5 × 8 ÷ 2 = 13

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

32 + 16 - 5 × 8 ÷ 2 = 13

32 + 16 - 5 × 4 = 13

32 + 16 - 20 = 13

48 - 20 = 13

28 ≠ 13

Left hand side is not equal to right hand side

2) + and ×

After interchanging, new equation → 32 ÷ 16 - 5 + 8 × 2 = 13

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

32 ÷ 16 - 5 + 8 × 2 - 13

2 - 5 + 8 × 2 = 13

2 - 5 + 16 = 13

18 - 5 = 13

13 = 13

Left hand side is equal to right hand side

3) - and +

After interchanging, new equation → 32 ÷ 16 + 5 × 8 - 2 = 13

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

32 ÷ 16 + 5 × 8 - 2 = 13

2 + 5 × 8 - 2 = 13

2 + 40 - 2 = 13

42 - 2 = 13

40 ≠ 13

Left hand side is not equal to right hand side

4) ÷ and ×

After interchanging, new equation → 32 × 16 - 5 ÷ 8 + 2 = 13

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

32 × 16 - 5 ÷ 8 + 2 = 13

32 × 16 - 0.625 + 2 = 13

512 - 0.625 + 2 = 13

514 - 0.625 = 13

513.375 ≠ 13

Left hand side is not equal to right hand side

Hence, the correct answer is "+ and ×".

Q40. Answer: (d) 14

The logic followed here is:-

(First number + Second number) ÷ 2 = Result

In 6@16 = 11

(6 + 16) ÷ 2 = 11

In 2@14 = 8

(2 + 14) ÷ 2 = 8

In 8@8 = 8

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(8 + 8) ÷ 2 = 8

In 10@18 = ?

(10 + 18) ÷ 2 = 14

Hence, the correct answer is "14".

Q41. Answer: (c) BBAAAAAA

The pattern followed here is:-

In the given list is that the position of the second B is changing to preceded position.

BAAAAABA → BAAAABAA → BAAABAAA → BAABAAAA → BABAAAAA → BBAAAAAA

Hence, the correct answer is "BBAAAAAA".

Q42. Answer: (d) 2.5 km North

Given → An old man starts his daily walking routine.

1) He walks 2 km East.

2) Then turns North and walks 1 km.

3) Then turns West and walks 2 km.

4) Then turns to his right and walks 1.5 km.

5) Distance and Direction of the old man with respect to the starting point.

As can be seen clearly from the above that the old man is 2.5 km away in the North direction with respect to the starting point.

Hence, the correct answer is "2.5 km North".

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

The least possible Venn diagram from the given statements is as follows:-

Conclusions:

I) All nozzles are valves → Doesn't follow (as no direct relationship is given between nozzles and valves so it is not definite that all nozzles are valves)

II) All valves are nozzles → Doesn't follow (as no direct relationship is given between valves and nozzles so it is not definite that all valves are nozzles)

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

Q44. Answer: (d) GA

Given:-

Rectangle represents Hairstylists, Circle represents Racers, Triangle represents Divers and Square represents Fathers.

Letters in Rectangle that represents Hairstylists are → D E

Letters in Circle that represents Racers are → A B C I

Letters in Triangle that represents Divers are → A C G H

Letters in Square that represents Fathers are → A B E F G

Set of letters that represents fathers who are Divers are → Common letters present in both Square that represents Fathers and Triangle that represents Divers i.e. G and A (as shown below by the shaded portion)

As can be seen clearly from the above that the Set of letters that represents Fathers who are Divers are G and A.

Hence, the correct answer is "GA".

Q45. Answer: (d) NXH

The pattern followed here is:-

Hence, the correct answer is "NXH".

Q46. Answer: (b) 20

The pattern followed in the given series is:-

Hence, the correct answer is "20".

Q47. Answer: (b) (9, 29, 45)

The logic followed here is:-

(First number × 3) + 1 = Second number

First number × 5 = Third number

Checking options one by one:-

1) In (6, 19, 30)
(6 × 3) + 1 → 18 + 1 = 19
6 × 5 = 30
2) In (9, 29, 45)
(9 × 3) + 1 → 27 + 1 = 28 not 29
9 × 5 = 45
3) In (11, 34, 55)
(11 × 3) + 1 → 33 + 1 = 34
11 × 5 = 55
4) In (13, 40, 65)
(13 × 3) + 1 → 39 + 1 = 40
13 × 5 = 65
As can be established from above that (9, 29, 45) is the odd one out as it does't follow the logic.
Hence, the correct answer is "(9, 29, 45)".

Q48. Answer: (d) [figure]

The correct mirror image of the given figure when a mirror is placed on the line MN is as shown below:-
Hence, the correct answer is "Option 4".
Additional Information
• The mirror always forms the laterally inverted images, i.e. left changes to right and vice-versa.
• The reflection of an object in the water is called its water image.
• The water image of an object in the water is always vertically inverted, i.e. upside changes to downside and vice-versa.
• The water image is the mirror image in case if the mirror is placed horizontally below the object.

Q49. Answer: (b) [figure]

Given:-
Unfolded cube
When the unfolded cube is folded, Opposite faces of the cube will be:-
1)
will be opposite to
2)
will be opposite to
3)
will be opposite to
Now, checking Options one by one:-
1) Cube given in Option Figure (1) can be formed as no two opposite faces of the cube the present adjacent to each other.
2) Cube given in Option Figure (2) CANNOT be formed as two opposite faces i.e.
and
are present adjacent to each other.
3) Cube given in Option Figure (3) can be formed as no two opposite faces of the cube the present adjacent to each other.
4) Cube given in Option Figure (4) can be formed as no two opposite faces of the cube the present adjacent to each other.
Hence, the correct answer is "Option 2".

Q50. Answer: (d) 42, 57, 75, 11

The pattern followed here is:-
A letter is represented first by its row and then by its column.
Checking options one by one for the set of numbers for the word 'DUNG'.
1) 31 → A, 76 → V, 24 → F, 96 → X (so, the letter cluster formed is 'AVFX')
2) 20 → F, 59 → S, 41 → L, 88 → T (so, the letter cluster formed is 'FSLT')
3) 33 → J, 68 → O, 31 → A, 75 → N (so, the letter cluster formed is 'JOAN')
4) 42 → D, 57 → U, 75 → N, 11 → G (so, the word formed is 'DUNG')
Hence, the correct answer is "42, 57, 75, 11".

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Q51. Answer: (d) 8

Calculation:

(159)^(144) + (114)^{123} - (110)^(510) + (213)^(25)

We will consider the unit digit of each number

=> (9)^(144) + (4)^{123} - (0)^(510) + (3)^(25)

=> 1 + 4 – 0 + 3 (consider only unit place digit of each sum)

=> 8

Therefore The unit place digit in the expression is 8

Q52. Answer: (d) 0.0256

Calculation:

256/0.256 = 25.6/x

=> 256 × x = 25.6 × 0.256

=> x = (25.6 × 0.256) /256

Therefore x = 0.0256

Q53. Answer: (d) 229

Given:

x = √15√15√15√15√15 … .∞

Concept used:

if x = √(n√(n√(n√(n√n)))) … .∞ = n, then x = n

Calculation:

So,here

n = 15

Therefore $x^2 + 4 = (15)^2 + 4 = 225 + 4 = 229$

Q54. Answer: (b) 1/2

Given:

x – 4y = 0 ---- (i)

4x + 3y = 19 ---- (ii)

Calculation:

Multiplying eq 1 by 4 and rewriting both equations we get

4x – 16y = 0

4x + 3y = 19

On subtracting

=> -19y = -19

=> y = 1

Putting y = 1 in eq(i) we get

=> 4x - 16 = 0

=> x = 4

So the solution will be x = a = 4, y = b = 1 i.e. (4, 1)

Therefore value of ab/ (a + 4b) = (4 × 1) / (4 + 4 × 1) = 4/8 = 1/2

Q55. Answer: (d) All options are correct

Calculation:

By the definition of the congruent triangle,

Two triangles are congruent if they are equal in all respect with each other

In simple sense one should overlap other completely and if this is the rule then their area will be same and they are always similar to each other

But,

Two similar triangles may or may not be congruent

Therefore All options are correct regarding a triangle.

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Q56. Answer: (c) Acute angled triangle

Here

Since, $(13)^2 < (12)^2 + (6)^2$

Hence this is an acute angle triangle by triangle inequality concept

Q57. Answer: (c) 50.25

Given:

Ratio of weight of Ayush and Abhishek = 6 : 11

Increment in Abhishek's weight = 25%

Total increment in Ayush and Abhishek's weight = 40%

Total weight after increment = 119kg

Calculation:

Let the weights of Ayush and Abhishek be 60 and 110

Abhishek’s weight after increment = 110 × 125/100 = 137.5

Total Weight after increment = 170 × 140/100 = 238 units

=> 238 units = 119kg

=> 1 units = 1/2 kg

So, Weights of Ayush = 60/2 = 30 kg

Weights of Abhishek = 110/2 = 55kg

Abhishek’s weight after increment = 55 × 125/100 = 68.75 kg

Ayush's weight after increment = 119 - 68.75 = 50.25

Q58. Answer: (a) 32

Given

Total coins = 112

Value of 5, 2 and 1 rupee coins = 15 : 4 : 2

Formula used:

Total value = No. of coins × denomination

Calculation:

Let Rs. 15x be value of 5 rupees coins, Rs. 4x be the value of 2 rupees coins and 2x be the value of 1 rupee coins

According to the question,

15x/5 + 4x/2 + 2x/1 = 112

=> 3x + 2x + 2x = 112

=> 7x = 112

=> x = 16

Therefore 2 rupees coins are there in the box = 4x/2 = 2x = 2 × 16 = 32

Q59. Answer: (b) 35

Shortcut Trick

Since only Liquid B is added, the quantity of Liquid A remains constant.

Initial ratio A : B = 5 : 4 | Final ratio A : B = 7 : 6

Multiply initial ratio by 7 and final ratio by 5 to equate A:

New Initial ratio = 35 : 28 | New Final ratio = 35 : 30

Increase in B = 30 − 28 = 2 units => Given as 2 litres, so 1 unit = 1 litre.

Therefore The correct answer is 35 litres.

Alternate Method

Given: Initial ratio of Liquid A and Liquid B is 5 : 4. After adding 2 litres of Liquid B, the ratio becomes 7 : 6.

Formula Used: Ratio and Proportion => Amount of substance = Ratio part × common factor.

Let the initial quantity of Liquid A be 5x and Liquid B be 4x.

=> According to the question: 5x / (4x + 2) = 7 / 6

=> 6 × 5x = 7 × (4x + 2)

=> 30x = 28x + 14

=> 30x − 28x = 14

=> 2x = 14

=> x = 7

=> Quantity of Liquid A = 5x = 5 × 7 = 35 litres.

Therefore The correct answer is 35 litres.

Additional Information

Constant Quantity Rule

In mixture problems, if only one component is added or removed, the quantity of the other component remains unchanged in terms of its actual volume.

Ratio Normalization

To solve ratio problems quickly, multiply the ratios by appropriate integers so that the part representing the constant component becomes the same in both ratios.

Alligation Method

Ratio of quantities = (Value of second component − Mean Value) / (Mean Value − Value of first component).

Q60. Answer: (b) 84

Shortcut TrickAverage of 10 numbers = 14

If each number is multiplied with a constant then the whole Average gets multiplied with the same constant.

Therefore New Avg = 14 × 6 = 84

Q61. Answer: (c) 20/9

Shortcut Trick

Let the Principal be 9 units, then Simple Interest (SI) = 5 units.

Time (T) = 25 years.

Rate (R) = (SI × 100) ÷ (P × T)

R = (5 × 100) ÷ (9 × 25) = 500 ÷ 225

R = 20/9 %

Therefore The correct answer is 20/9 %.

Alternate Method

Given:

Simple Interest (SI) = 5/9 of Principal (P)

Time (T) = 25 years

Formula Used:

SI = (P × R × T) ÷ 100

Year 0

Sum = P

Year 25

SI = 5/9 P

Time = 25 years

Rate = R%

R = (SI × 100) ÷ (P × T)

Calculations:

=> (5/9)P = (P × R × 25) ÷ 100

=> 5/9 = (25 × R) ÷ 100

=> 5/9 = R ÷ 4

=> R = (5 × 4) ÷ 9

=> R = 20/9 %

Therefore The correct answer is 20/9 %.

Additional Information

Simple Interest (SI)

It is the interest calculated only on the initial principal sum for the entire duration of the loan. Formula: SI = (P × R × T) ÷ 100.

Amount (A)

The total accumulated sum at the end of the time period consisting of the principal and simple interest combined. Formula: A = P + SI = P[1 + (R × T) ÷ 100].

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Rate of Interest

The percentage of the principal charged or earned per unit time. Computed directly by R = (SI × 100) ÷ (P × T).

Q62. Answer: (a) 15

Given:

S.P = 684.25

C.P = 595

Formula used:

Profit = S.P. - C.P.

Profit% = (Profit/C.P) × 100%

Calculation:

Therefore Profit % = (684.25 – 595)/595 × 100 = 15%

Q63. Answer: (b) 8

Given:

M.P. = Rs.4200

Successive discount = 25% and y%

S.P. = Rs 2898

Formula used:

S.P. = M.P.(1 - D1/100)(1 - D2/100)

where D1 and D2 are two successive discounts

Calculation:

According to the question

2898 = M.P × 75/100 × (1 – y/100)

=> 2898 = 4200 × 75/100 × (1 – y/100)

=> 2898/ (42 × 75) = (1 – y/100)

=> 2898/3150 – 1 = (-y/100)

=> (-252)/3150 = - y/100

Therefore y = (252 × 100)/3150 = 8%

Shortcut TrickEffective successive discount = x + y -xy/100

By hit and trial method,

Let y = 8%

then 25% + 8% - 25 × 8/100 = 33 - 2 = 31%

Now, 69% of 4200 = Rs. 2898 Satisfied

Q64. Answer: (b) 25.53

Calculation:

[(√529) + (√5.29) + (√0.0529)]

=> [(√529) + (√529/100) + (√529/10000)]

=> (23 + 23/10 + 23/100)

=> (23 + 2.3 + 0.23) = 25.53

Therefore The correct answer is 25.53

Q65. Answer: (b) 2400

Given:

Total wages = Rs.7200

No. of days P takes to do a work = 20 days

No. of days Q takes to do a work = 12 days

No. of days P + Q + R takes to do a work = 5 days

Concept used:

Total work = Efficiency × Time

Wages prop. to Work and Work prop. to Efficiency

Calculation:

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Let the total work = 60 units
Efficiency of P = 60/20 = 3 units/day
Efficiency of Q = 60/12 = 5 units/day
Total efficiency of P + Q + R = 60/5 = 12 units/day
Efficiency of R = 12 – (3 + 5) = 4 units/day
The share will be divided on the basis of work done
Therefore Share of R = 4/12 × 7200 = Rs. 2400

Q66. Answer: (b) 12

Given:
Distance covered = 143 km
Time taken to travel upstream = 13 hours
Time taken to travel downstream = 11 hours
Formula used:
If b is speed of boat and s is the speed of the stream, then
upstream speed = b - s
Downstream speed = b + s
Speed = Distance ÷ Time
Calculation:
Let the speed of the boat and speed of the stream be x km/hr and y km/hr respectively
According to the question,
143/(x – y) = 13 ---- (i)
143/(x + y) = 11 ---- (ii)
On comparing both eq
11(x + y) = 13 (x – y)
=> 11x + 11y = 13x – 13y
=> 24y = 2x
=> x : y = 12 : 1
Therefore Speed of the boat in still water is 12 km/hr

Q67. Answer: (a) 2013

Calculation:
From the options
As we can see in the diagram in 2013 the production was 30 and in its previous year i.e in 2012 it is 90
Hence, the answer will be 2013.
Rest in all options the production was maximum or not as per the question.

Q68. Answer: (a) 10

Calculation:
Production of steel in 2011 = 35
Production of steel in 2015 = 25
Therefore Difference = 35 – 25 = 10

Q69. Answer: (d) 260%

Calculation:
Production of steel in 2012 = 90
Production of steel in 2015 = 25
Therefore Required % = (90 – 25)/25 × 100 = 260%

Q70. Answer: (c) 2400

Calculation:
We know, 1 Billion = 1000 Million
The cost of 1 ton of steel = Rs. 30000
production of steel in 2017 = 80 Million tonnes

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So,
cost of production in 2017
= 80 Million × 30000
= 80 Million × 100 × 300
= 8000 Million * 300
= 8B * 300
= 2400 Billion
Hence, Rs. 2400 (in billion) is the correct answer.

Q71. Answer: (a) 42.25

Given:
The perimeter of a square = 26 cm
Formula used:
Perimeter of square = 4a
Area of a square = a^2
Where a → side of the square
Calculation:
=> 4a = 26
=> a = 26/4 = 6.5 cm
Therefore area of square = a^2 = 6.5 × 6.5 = 42.25 cm sq

Q72. Answer: (a) 14

Given:
Area of circle = 616cm^2
Formula used:
Area of circle = πr^2
where r → radius of a circle
Calculation:
=> πr^2 = 616
=> 22/7 × r^2 = 616
=> r^2 = 196
Therefore r = 14 cm

Q73. Answer: (a) 616

Given:
Diameter = 14 cm,
So, r = 14/2 = 7 cm
Formula used:
Surface area of sphere = $4\pi r^2$
where r → radius of a sphere
Calculation:
r = 14/2 = 7 cm
Therefore Surface area of sphere = 4 × 22/7 × 7 × 7 = 616 sq.cm

Q74. Answer: (b) (√2 – √3)/√6

Calculation:
(1/√3 – sin 45°)
=> 1/(√3) – 1/(√2)
=> (√2 – √3)/(√6)

Q75. Answer: (a) 8.5

Given:
In ΔPQR measure of angle Q is 90°
cotP = 8/15 and PQ = 4 cm

Formula used:

Cot θ = Base/Perpendicular

Calculation:

Cot P = PQ/QR

=> PQ/QR = 8/15

=> 4/QR = 8/15

=> QR = 7.5

By Pythagoras Theorem,

$PR^2 = PQ^2 + QR^2$

=> $PR^2 = 4^2 + 7.5^2$

=> $PR^2 = 16 + 56.25 = 72.25$

Therefore PR = 8.5 cm

Q76. Answer: (d) proportion to quota allotted to countries from time to the time

• The International Monetary Fund (IMF) is an international organization consisting of 189 countries working to foster global monetary cooperation, secure financial stability, facilitate international trade, promote high employment and sustainable economic growth and also to reduce poverty around the world.

• Voting power in the IMF is purely based on a quota system.

• So, voting rights in the IMF are distributed on the basis of proportion to quota allotted to countries from time to time.

Q77. Answer: (d) All options are correct.

• Land reform involves the changing of laws, regulations or customs regarding the land ownership.

• The main purpose of land reforms in India are:

• Rational use of Resources

• Raising Production level

• Removal of Exploitation

• Social Welfare

• Planned Development

• Raising the Standard of living

Key Points

• Land reforms are the reforms that involve change of laws, regulations or customs with respect to the ownership of the land.

• According to the great economist Prof. According to Gunnar Myrdal, “the land reforms are the planning and institutional restructuring of the relations between the man and the land".

• At the time of independence, in most of the agricultural sector of the country, the role of mediators existed between the tenant and the owner of the land.

• There was no guarantee of this landholding and certainty in rent. Therefore, after independence, the cultivator was given the real rights of the land.

• To do this, the process of land reform was adopted, which was considered a progressive process.

Additional Information

Following were the objectives of the Land Reforms:

• To remove the existing institutional anomalies in the agriculture sector and to rationalize and modernize the sector by steps such as land ownership, land rights, paying attention to tenant safety ,etc.

• To eliminate economic inequality and to achieve social equality.

• To obtain and establish a public welfare state.

• Eradicating poverty and imparting common beliefs among the people.

• To end the old land relations and establish a new system in which the cultivators of the land are its actual owner.

• Ending social injustice, strengthening the position of tenants and, granting equal rights for all sections of the rural population

Q78. Answer: (c) Hum

The correct answer is Hum.

Key Points

• A hummock is a little mound or knoll that is above ground.

• They often exist in groups or fields and are typically not taller than 15 meters.

• Hummocks are created by large landslide avalanches, which often happen in volcanic regions.

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• A boss or rounded knoll of ice rising above the overall level of an ice field is known as an ice hummock.

Additional Information

• Monadnock:

• A rock hill, knob, ridge, or tiny mountain that abruptly rises from a gently sloping or almost level surrounding plain is known as an inselberg or a monadnock.

• Pediplain:

• An expansive plain created by the coalescence of pediments is known as a pediplain.

Q79. Answer: (a) Narmada

• Narmada river is one of the three major rivers in peninsular India that run from east to west along with Tapti River and the Mahi River.

• It is one of the rivers in India that flows in the rift valley, flowing west between the Satpura and Vindhya ranges.

• So, Narmada river of peninsular India is distinct from the remaining three in the above rivers

Q80. Answer: (d) Lothal

The correct answer is Lothal.

Key Points

• Couple burial was found from Lothal at the Harappan sites.

• Lothal was one of the southernmost city of the ancient Indus valley civilisation located in the Bhal region of Gujarat.

• Burial or interment is the ritual act of placing a dead person or animals, sometimes with objects, into the ground.

Q81. Answer: (b) Dufferin Plan

• The Indian Councils Act 1892 was an Act of Parliament of the United Kingdom that authorized an increase in the size of the various legislative councils in British India.

• Viceroy Lord Dufferin setup a committee and it had a responsibility to draw a plan for the enlargement of provincial councils and enhancement of their status.

• So, The Indian Council of 1892 Act was based on Dufferin Plain.

Q82. Answer: (a) Painting

The correct answer is Painting.

Key Points

• Nandalal Bose (1882-1966):

• He was the disciple of Abanindranath Tagore.

• His paintings mainly revolve around Indian history and Hindu mythology.

• The poster of the famous Haripura Congress of 1938 was drawn by him.

• He illustrated the Constitution of India by applying gold leaf and stone color.

• He was born in 1882 and died in 1966 in Kolkata.

• He was known for his work in the beautification of the original manuscript of the Indian Constitution.

• He was awarded Padma Vibushan in the year 1954.

Q83. Answer: (c) Saudi Arabia

• Saudi Arabia is the country which announced to allow women into three sports stadium for the first time since 2018 in October 2017.

• Because the Kingdom appears to be relaxing some norms as a part of their “Vision 2030” for economic and social reforms.

Q84. Answer: (c) Master of None

• Master of None is an American comedy-drama web television series which was created by Aziz Ansari and Alan Yang.

• Golden Globe award was awarded for “Excellence in film and television” by the United States.

• In January 2018, Aziz Ansari became the first Indian-American and first Asian to win a Golden Globe award for “Master of None” comedy series.

Q85. Answer: (a) Ananda Samarkand

• Ananda Samarakoon was a Sri Lankan composer and musician.

• He composed the Sri Lankan national anthem “Sri Lanka Matha” and is considered as the father of artistic Sinhala music.

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Q86. Answer: (d) Mn, Hg

Johan Newlands an English chemist has classified 56 elements into 11 groups based on the physical properties and proposed the Law of Octaves which states that every eight elements repeated its physical and chemical properties.

Newlands periodic table:

H	F	Cl	Co/Ni	Br	Pd	I	Pt/Ir
Li	Na	K	Cu	Rb	Ag	Cs	Tl
GI	Mg	Ca	Zn	Sr	Cd	Ba/V	Pb
BO	Al	Cr	Y	Ce/La	U	Ta	Th
C	Si	Ti	In	Zr	Sn	W	Hg
N	P	Mn	As	Di/Mo	Sb	Nb	Bi
O	S	Fe	Se	Ro/Ru	Te	Au	Os

• In a periodic table, each row of elements consists of total seven elements and the eighth element falls under the first element.

• In the first column lithium (Li) is the first element and sodium (Na) is the eighth element.

Q87. Answer: (d) Ammonia gas

Manganese	Mn
Air	Mixture of gas
Ozone	O3
Ammonia gas	NH3

A compound is a substance that formed when two or more chemical elements are chemically bonded together.

Ammonia is a compound of nitrogen and hydrogen with formula NH3which is colorless gas.

Q88. Answer: (d) Eleventh Schedule

• The 11^(th) Schedule of Indian Constitution was added in 1992 by 73^(rd) Constitution Amendment Act. This schedule contains 29 subjects.

• This schedule covers important topics such as Panchayat's powers, rural development, poverty alleviation, market, roads,and drinking water.

• It is in Part 9th.

• How to remember all the schedules: Code for 12 schedules is >TEARS OF OLD PM

1st Schedule: T- Territory, 2nd Schedule: E- Emoluments/salary, 3rd Schedule: A- Affirmation/Oath, 4th Schedule: R- Rajya Sabha, 5th Schedule: S- Scheduled Tribes, 6th Schedule: O- Other Tribes, 7th Schedule: F- Federal (Division Of Powers), 8th Schedule: O- ;Official Regional Languages, 9th Schedule: L- Land Reform, 10th Schedule: D- Defection (Anti-Defection Law), 11th Schedule: P- Panchayati Raj, 12th Schedule: M- Municipal Corporation

Q89. Answer: (c) Both I and II

Solution:

• List of Provisions amended by Special Majority of Parliament and Consent of States

• Election of President and its manner.

• The extent of the executive power of the Union and the states

• Supreme court and High courts

• Distribution of legislative powers between Union and States.

• Any of the list in the seventh schedule

• Representation of states in Parliament

• Power of Parliament to amend the Constitution and its procedure (Article 368).

Q90. Answer: (b) Fluid

• Blood is called a liquid connective tissue because it connects various body tissues and organs together by oxygen, hormones and various nutrients.

• The intercellular fluid bathes and surrounds the cells of the body, and provides a means of delivering materials to the cells, intercellular communication, and removal of metabolic waste.

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• Blood is a connective tissue embedded in a fluid type of intercellular matrix.

Q91. Answer: (c) Lichens

• A Lichen is a composite organism that arises from algae or cyanobacteria living among filaments in a symbiotic relationship.

• Symbiosis is any type of a close and long-term biological interaction between two different biological organisms.

• Slow-growing large colored patches on the bark of trees are the examples of symbiotic life forms called lichen.

Q92. Answer: (d) Maneka Gandhi

• On 17 October 2017, Maneka Sanjay Gandhi launched the online Campaign ‘women for women:#IAmThatWomen’ to end gender bias.

• Maneka Sanjay Gandhi is an Indian Union Cabinet Minister for Women and Child Development.

Q93. Answer: (d) Trachoma

• India was declared free from Trachoma infective eye disorder on 9 December 2017 by Union Health Minister J.P.Nadda.

• Trachoma is a chronic infective disease of the eye and is leading cause of infective blindness globally.

Q94. Answer: (c) Rs. 2.11 lakh crore

• On 25 October 2017, the government announced a recapitalization plan for state-owned banks. Rs 2.11 lakh crore was announced for Banks’ recapitalization by Arun Jaitley.

• The recapitalization is described as a strategy for enhancing the financial base of the entity to overcome a rough financial health.

Q95. Answer: (a) 640

• On 22 November 2017, the cabinet approved the expansion of "Beti Bacho Beti Padhao" for greater Pan India coverage.

• PAN is a widely used business term. PAN stands for “Presence Across Nation”.

• It means:

• Spreading Across India OR

• Spreading All over India OR

• Presence in All parts of India.

• Beti Bachao, Beti Padhao is a personal campaign of the Government of India which aims to generate awareness and improve the efficiency of welfare services intended for girls.

Q96. Answer: (b) 1280

Given:

Resistance, R = 800 Ω

Current, I = 0.2 A

Time, t = 40 seconds

To find:

Heat

Formula:

The Heat in joules is given by $H = I^2Rt$

Calculation:

$H = I^2Rt$

$H = (0.2)^2(800)(40)$

$H = 1280$ (J)

Q97. Answer: (c) kinetic energy is zero

• The kinetic energy of an object is the energy that possesses due to its motion.

• So, When an object is thrown vertically upwards, at its maximum height its kinetic energy is zero.

Q98. Answer: (d) Methane

• Methane is non-toxic also “simple asphyxiant” because it can displace oxygen which is needed for breathing. So, it is called a Greenhouse gas.

• A greenhouse gas in an atmosphere will absorb and emits radiant energy within the thermal infrared range.

• Methane contributes towards global warming so it is called a greenhouse gas.

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Q99. Answer: (c) Only C

- Dubai Tennis Championships hosted the Tennis 2017 ATP World Tour Finals.
- In 2017, Per Mertesacker captained the Premier League team Arsenal.
- In 2017, Stephen Curry played for the NBA team Golden State Warriors.

Q100. Answer: (b) End of row

Shortcut keys	Action Performed
Ctrl + down arrow	End of column
Ctrl + right arrow	End of row
Left arrow	One cell Left
Right arrow	One cell right

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