SSC CHSL Previous Paper 18 (Held On: 12 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, 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 errors, select 'No Error'.

She is walking (1)/ in the park (2)/ since morning. (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 errors, select 'No Error'.

The mobile phone which was primarily used to communicate with the outside world, (1)/ has now become our primary instrument (2)/ of being wrapped up in our own self. (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.

He was sorry _____ her loss.

(a) about
(b) for
(c) at
(d) from

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.

The velocity of an object is the rate of change of its position _____ respect to a frame of reference.

(a) by
(b) of
(c) or
(d) with

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

Eminent

(a) Famous
(b) Insignificant
(c) Bland

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(d) Typical

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

Conceited

(a) Factual
(b) Shy
(c) Circular
(d) Proud

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

Absolve

(a) Acquit
(b) Clear
(c) Excuse
(d) Blame

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

Adjacent

(a) Nearby
(b) Joining
(c) Remote
(d) Bordering

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

It is up to

P: the consumers now to appreciate

Q: exercise this power with care

R: the threat of antibiotic resistance and

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

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 audience laughed at the comedian.

(a) The comedian is laughed at by the audience.
(b) The comedian was laughed at by the audience.
(c) The comedian was laughed at by everyone.
(d) The comedian was laugh at by the audience.

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.

“Are you going to eat with us?” he asked.

(a) He asked me if I was going to eat with them.
(b) He asked whether he was going to eat with them.
(c) He inquired whether I am going to eat or not.
(d) She asked me if he was going to eat with them.

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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) Ambarass
(b) Embarass
(c) Embarrs
(d) Embarrass

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.

Indian corporates are _____ influenced by the American style of management, including ____ practices. The recent episodes in a couple of big and reputed corporates in India are prompting many to re-think the kind of compensation strategy that would be ____ for Indian corporates. Should it be more socialistic, as prevalent in Scandinavian, some European and Japanese companies? ____ there be some law to govern the salary differentials? _____ should different functions such as Finance be remunerated substantially higher for equivalent educational degree holders and similar efforts by individuals in other functions?

Q13. Indian corporates are _____ influenced by

(a) great
(b) greatly
(c) greatness
(d) greater

Q14. Management, including _____ practices.

(a) compensate
(b) compensation
(c) to compensate
(d) compensing

Q15. that would be _____ for Indian corporates.

(a) ideally
(b) ideals
(c) ideal
(d) idealism

Q16. Japanese companies? _____ there be some

(a) Shall
(b) Will
(c) Should
(d) What

Q17. salary differentials? _____ should different

(a) What
(b) Where
(c) Why
(d) Whom

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

A drop in the ocean

(a) Even a small gesture means a lot to a needy person.
(b) To lose someone in a huge crowd.
(c) A scolding which has no effect on a stubborn person.
(d) A very small amount compared with what is needed or expected.

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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.

Count one's blessings

(a) To be blessed with the best things in life.
(b) Be grateful for what one has.
(c) Keep a track of your wealth or else you may lose it.
(d) Something which you thought lucky turns out to be bad luck.

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

The action of discouraging an action or event through instilling doubt or fear of the consequences

(a) Buoy
(b) Spur
(c) Deterrence
(d) Exhilarate

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

Make someone less angry or hostile

(a) Sullen
(b) Offend
(c) Chafe
(d) Placate

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".

They teased and (to joke) with the patient and didn't stop till they elicited a favourable response from her.

(a) joke
(b) joking
(c) joked
(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".

Maybe Karishma wasn't the only one who (had been overlooked) by Mrs Shah when it came to inheritance.

(a) have been overlooked
(b) is been overlook
(c) has been overlooking
(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.

Years later I moved to a/an

A - country that had well-connected

B - buses, subways and tram systems

C - old city on the east coast of the

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

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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) Repositary
(b) Repository
(c) Repozitory
(d) Repozitary

GENERAL INTELLIGENCE

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

Square : Perimeter : : ? : ?

(a) Circumference : Sphere
(b) Circle : Circumference
(c) Perimeter : Rectangle
(d) Area : Triangle

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

15 : 17 : : 23 : ?

(a) 24
(b) 27
(c) 25
(d) 35

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

PGY : JAS : : VIK : ?

(a) PCD
(b) RDE
(c) PCE
(d) RDF

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

(a) Mass - Balance
(b) Temperature - Thermometer
(c) Scale - Length
(d) Pressure - Barometer

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

(a) 11 - 1331
(b) 15 - 3375
(c) 12 - 1728
(d) 14 - 2788

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

(a) HPY
(b) AIQ
(c) GOW
(d) DLT

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

1. Fortitude
2. Form
3. Forget

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4. Fortify

5. Fragrant

(a) 53214
(b) 32415
(c) 25143
(d) 24513

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

567, 189, 63, ?, 7

(a) 21
(b) 30
(c) 29
(d) 31

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

AED, EIH, INL, ?, QAT

(a) MTP
(b) KPR
(c) LNS
(d) MNH

Q35. Lokesh is taller than Gagan but not shorter than Abhishek. Abhishek and Suresh are of same height. Lokesh is shorter than Lalit. Amongst the boys, who is the tallest?

(a) Gagan
(b) Lalit
(c) Lokesh
(d) Suresh

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

GYMNASTIC

(a) MAN
(b) STICK
(c) GYM
(d) AIM

Q37. In a certain code language, “pen” is called “paper”, “paper” is called “yellow”, “yellow” is called “blanket”, “blanket” is called “shirt” and “shirt” is called “pencil”. Where do we write?

(a) Pen
(b) Blanket
(c) Yellow
(d) Shirt

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

6 × 6 ÷ 10 - 8 + 2 = ?

(a) 15
(b) 38
(c) 2
(d) 7

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

15 + 2 ÷ 20 × 10 - 6 = 13

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

Q40. If 8 % 5 = 30, 9 % 2 = 70 and 1 % 4 = - 30, then find the value of 2 % 5 = ?

(a) -30
(b) 10
(c) -20
(d) 40

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

CDCDCBAB, CDCDABAB, CDCBABAB, CDABABAB, CBABABAB, _____.

(a) CDCDCDAB
(b) ABABABAB
(c) CDCDCBAB
(d) CDCDABAB

Q42. Two ladies P and Q start on their scooters from the same place. P rides 8 km north, then turns West and rides 6 km, then turns to her right and rides 4 km. Q rides 10 km west, then turns to her right and rides 12 km. Where is Q with respect to P now?

(a) 16 km West
(b) 4 km West
(c) 4 km East
(d) 16 km East

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 creepers are vines.

Statement II: No climbers are creepers.

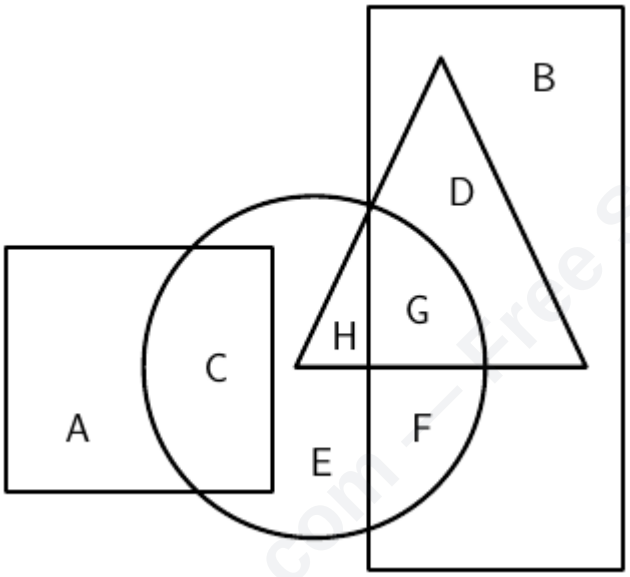
Conclusion I: All vines are climbers.

Conclusion II: No climbers are vines.

(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 Actors, circle represents Art critics, triangle represents Photographers and square represents Indians. Which set of letters represents Photographers who are Actors or Art critics?

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(a) HGD
(b) HGF
(c) CEH
(d) BDG

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

VTC, ZXG, DBK, HFO, ?

(a) KIR
(b) LJS
(c) ECL
(d) IGP

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

64, 73, 83, 94, ?, 119

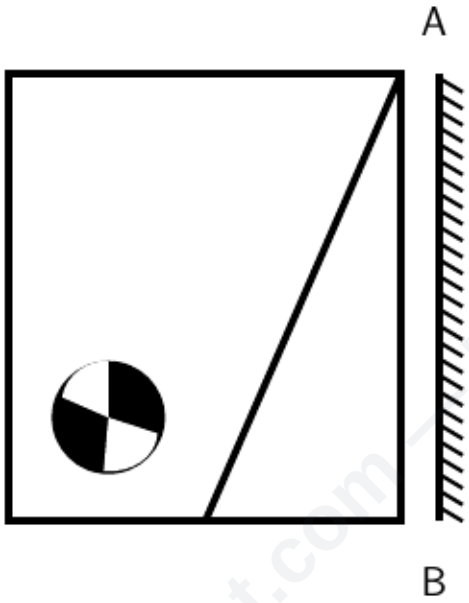
(a) 108
(b) 112
(c) 106
(d) 114

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.

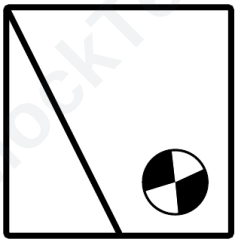
(a) (64, 32, 16)
(b) (96, 48, 20)
(c) (144, 72, 36)
(d) (216, 108, 54)

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

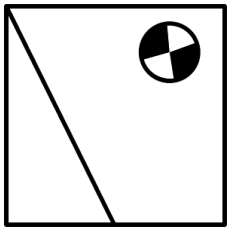
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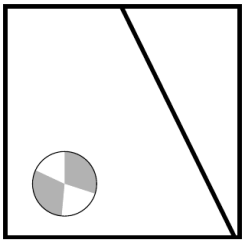
(a)



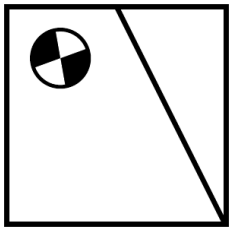
(b)



(c)

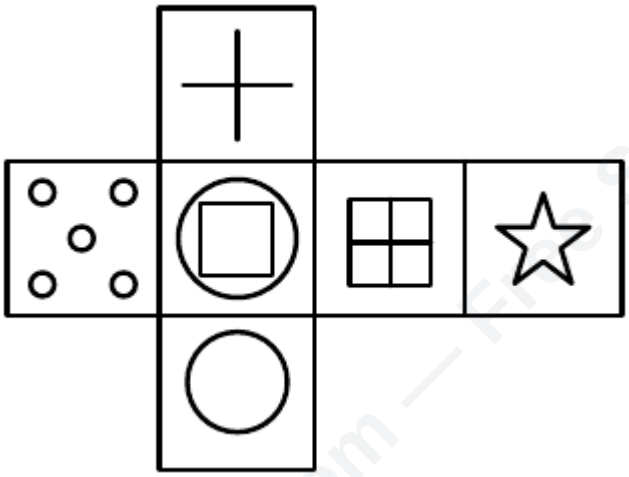


(d)

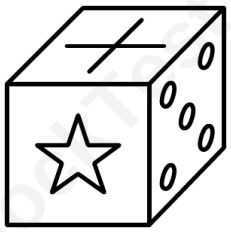


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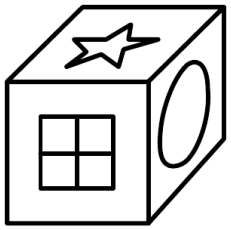
Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



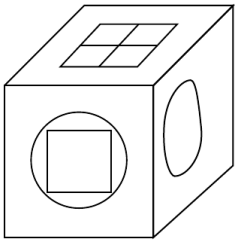
(a)



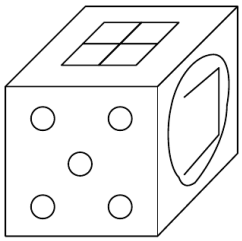
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given 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 ‘E’ can be represented by 14, 31 etc and ‘R’ can be represented by 78, 89 etc. Similarly, you have to identify the set for the word ‘LAND’.

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

(a) 13, 58, 20, 55
(b) 11, 95, 42, 79
(c) 23, 43, 96, 34
(d) 30, 78, 42, 85

QUANTITATIVE APTITUDE

Q51. Find the value of cbrt(4913/2197)
(a) 17/13
(b) 13/17
(c) 13/7
(d) 17/7

Q52. The sum of two numbers is 25 and sum of their square is 313. Calculate the numbers.
(a) 15, 10
(b) 18, 7
(c) 11, 14
(d) 12, 13

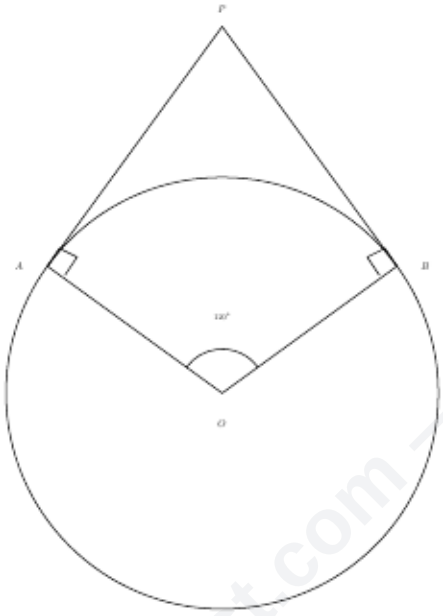
Q53. What is the value of a - b when $a^2 + b^2 - 6a - 6b + 18 = 0$?
(a) 0
(b) 3
(c) 6
(d) 9

Q54. The quadratic equation $(1 + a^2)x^2 + 2abx + (b^2 - c^2) = 0$ has only one root. What is the value of $c^2(1 + a^2)$?
(a) a^2
(b) b^2
(c) c^2
(d) ab

Q55. A circle of diameter 26 cm having the two equal chords of length 10 cm is separated by a distance x cm. Calculate the distance x.
(a) 20
(b) 22
(c) 24
(d) 28

Q56. Two tangents PA and PB are drawn to a circle of center O in such a way that angle AOB = 120°. Calculate the value of angle APB

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(a) 40°
(b) 50°
(c) 60°
(d) 80°

Q57. The population of a town is 200000. It increases annually at the rate of 10%. What will be the population after 2 years?

(a) 240000
(b) 242000
(c) 221000
(d) 244000

Q58. The incomes of X and Y are in the ratio 5 : 6 and their expenditure are in the ratio 6 : 5. If X saves Rs. 7000 and Y saves Rs. 15000, then what will be the income (in Rs.) of X?

(a) 28000
(b) 20000
(c) 25000
(d) 24000

Q59. X starts a business with Rs. 80000. After 6 months Y joins X with Rs. 100000. After 2 years, what will be the ratio of profit of X and Y?

(a) 16 : 15
(b) 4 : 5
(c) 8 : 9
(d) 14 : 15

Q60. What is the average of all the one-digit and two-digit natural numbers?

(a) 25
(b) 40
(c) 50
(d) 99

Q61. If the time increases by 5 years, then simple interest increases by Rs. 3000 on a sum of Rs. 5000. What is the rate (in percentage) of interest per annum?

(a) 15
(b) 12
(c) 10

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(d) 6

Q62. Cost price of an article is Rs. 5800. If the loss percentage is 33%, then what is the selling price (in Rs) of the article?

(a) 3886
(b) 3424
(c) 4420
(d) 5168

Q63. The marked price of an article is 60% more than its cost price. If the article is sold for Rs. 300 after offering a discount of Rs. 20, then what will be the profit percentage?

(a) 40
(b) 50
(c) 25
(d) 45

Q64. What is the value of (√96 + √216)/√24?

(a) 8
(b) 4
(c) 5
(d) 10

Q65. A, B and C together can complete a work in 25 days. If the ratio of efficiency of A, B and C is 15 : 10 : 6 respectively, then in how many days C alone can complete the same work?

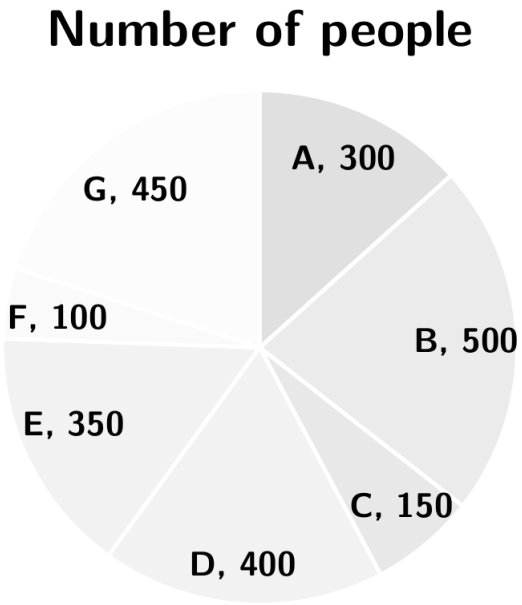
(a) 727/6
(b) 725/6
(c) 775/6
(d) 745/6

Q66. A boy crosses a 300 meters wide road in 30 seconds. What is his speed (in km/hr)?

(a) 18
(b) 54
(c) 36
(d) 27

Directions

Direction: The pie chart shows the results of an online survey which asked people about their favourite author. Study the diagram and answer the following question



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Q67. Which author is the favourite of most people surveyed?

(a) F
(b) B
(c) D
(d) E

Q68. Respondents who say their favourite author is A and those who say their favourite author is B constitute what percent of the total respondents?

(a) 30%
(b) 20%
(c) 44.44%
(d) 35.55%

Q69. The measure of the central angle of the sector representing number of people whose favourite author is D is _____ degrees.

(a) 60
(b) 64
(c) 56
(d) 52

Q70. What is the total number of people who have responded to the survey?

(a) 2250
(b) 2100
(c) 2400
(d) 2000

Q71. The lengths of the two diagonals of a rhombus are 6 cm and 8 cm. Find the length of its perimeter (in cm).

(a) 20
(b) 10
(c) 40
(d) 30

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

(a) 150
(b) 156
(c) 144
(d) 160

Q73. Find the curved surface area (in cm^2) of a hemisphere of diameter 7 cm.

(a) 88
(b) 55
(c) 77
(d) 66

Q74. ΔABC is right-angled at B. If angle A = 45, then find the value of (tanC + √3/2).

(a) 4/√3
(b) (2 + √3)/2
(c) (√2 + 2)/2√2
(d) (2 + √3)/3

Q75. In ΔXYZ measure of angle Y is 90^0. If cot X = 5/12, and XY = 2.5cm, then what is the length (in cm) of side XZ?

(a) 6
(b) 4
(c) 5.6
(d) 6.5

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GENERAL AWARENESS

Q76. Which of the following CANNOT be called a Debt instrument as referred in financial transactions?

(a) Certificate of Deposits
(b) Bonds
(c) Stocks
(d) Commercial Papers

Q77. During which five year plan the growth rate of agricultural production was negative?

(a) Third Plan
(b) Second Plan
(c) First Plan
(d) No option is correct.

Q78. After which war did Babur hold the title of Ghazi?

(a) Battle of Kabul
(b) Battle of Panipat
(c) Battle of Khanwa
(d) Battle of Ghaghra

Q79. Which of the following events is not related to the era of Warren Hastings?

(a) First Anglo-Maratha War
(b) Rohilla War
(c) Chait Singh Incident
(d) The establishment of the College of Hellbury

Q80. Where is the world's highest volcanic mountain Cotopaxi located?

(a) Japan
(b) Philippines
(c) Ecuador
(d) Hawaiian Islands

Q81. Where is the Cardamom Hill located?

(a) Jammu and Kashmir
(b) Himachal Pradesh
(c) Kerala
(d) Maharashtra

Q82. Pandit Bhimsen Joshi was a/an _____.

(a) Flute player
(b) Odissi dancers
(c) Hindustani vocalist
(d) Sitar Maestro

Q83. What was the theme of the 48th annual meeting of the World Economic Forum (WEF) which was held in Davos city?

(a) Discover, remember and share
(b) Creating shared future in a fractured world
(c) Shared values, common destiny
(d) Connecting ships, ports and people

Q84. Who among the following won the ‘FIFA Men's Player of The Year Award’ on October 23, 2017?

(a) Lionel Messi
(b) Andres Iniesta
(c) Cristiano Ronaldo
(d) Luka Modric

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Q85. In terms of population Pakistan is at which place in the world?

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

Q86. Who formulated ‘the atomic theory’ of a matter?

(a) Avogadro
(b) Dalton
(c) Newton
(d) Pascal

Q87. Which of the following type of medicine is used for treating indigestion?

(a) Antibiotic
(b) Analgesic
(c) Antacid
(d) Antiseptic

Q88. In Lok Sabha, who CANNOT vote in the first instance during voting?

(a) Speaker
(b) Cabinet Ministers
(c) Member of Lok Sabha
(d) None of these

Q89. Houses of Indian Parliament are prorogued by whom?

(a) Speaker of Lok Sabha
(b) Chairman of Rajya Sabha
(c) Prime Minister of India
(d) President of India

Q90. Trypsin is present in which of the following?

(a) Bile juice
(b) Gastric juice
(c) Saliva
(d) Pancreatic juice

Q91. Leeuwenhoek discovered the free living cells for the first time in _____.

(a) Pond water
(b) Sea water
(c) Soil
(d) Human body

Q92. In October 2017, how many companies were shortlisted for adoption of 14 monuments under ‘Adopt a Heritage Scheme’?

(a) 6
(b) 10
(c) 7
(d) 14

Q93. What is the name of the eighth planet discovered by NASA, circling Kepler- 90?

(a) Kepler-90g
(b) Kepler-90h
(c) Kepler-90i
(d) Kepler-908

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Q94. Under GST regime, in 'Composition Scheme', taxpayers have to file returns _____.

(a) Monthly
(b) Half-yearly
(c) Quarterly
(d) Bi-Monthly

Q95. On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017. The Bill empowers which agency/authority to consider an impact assessment of proposed works in prohibited area?

(a) Indian Monument Agency
(b) National Monument Authority
(c) National Monumental and Ancient Site Conservation Authority
(d) None of these

Q96. The time period of a sound wave is 0.01 seconds. Find its frequency (in Hz).

(a) 100
(b) 10
(c) 50
(d) 20

Q97. The SI unit of G, the universal gravitation constant is _____.

(a) N m^2kg^2
(b) N $m^2kg^{(-2)}$
(c) N $m^{(-2)}$ $kg^{(-2)}$
(d) N $m^{(-2)}$ kg^2

Q98. The power of an earthquake is expressed in terms of a magnitude on a scale called _____ scale.

(a) Schmitt
(b) Hutton
(c) Werner
(d) Richter

Q99. Which of the statements given below are correct?

A) Rafael Nadal won the Tennis 2017 Australian Open Men's Singles.
B) In 2017, Virat Kohli captained the IPL team Royal Challengers Bangalore.
C) Serena Williams won the Table Tennis 2017 ITTF World Tour Grand Finals Women's Singles.

(a) Only A
(b) Only B
(c) Both A and C
(d) None of these

Q100. Washing machines and microwave oven are operated by _____ embedded inside these gadgets.

(a) Satellites
(b) Electronic Device
(c) e-books
(d) Internet

ANSWER KEY

1	a	2	c	3	b	4	d	5	a	6	d	7	d	8	c	9	a	10	b
11	a	12	d	13	b	14	b	15	c	16	c	17	c	18	d	19	b	20	c
21	d	22	c	23	d	24	b	25	b	26	b	27	c	28	c	29	c	30	d
31	a	32	b	33	a	34	a	35	b	36	b	37	c	38	d	39	c	40	a

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41	b	42	b	43	d	44	a	45	b	46	c	47	b	48	a	49	d	50	c
51	a	52	d	53	a	54	b	55	c	56	c	57	b	58	c	59	a	60	c
61	b	62	a	63	b	64	c	65	c	66	c	67	b	68	d	69	b	70	a
71	a	72	c	73	c	74	b	75	d	76	c	77	a	78	c	79	d	80	c
81	c	82	c	83	b	84	c	85	d	86	b	87	c	88	a	89	d	90	d
91	a	92	c	93	c	94	c	95	b	96	a	97	b	98	d	99	b	100	b

SOLUTIONS

Q1. Answer: (a) 1

The correct answer is 1, i.e., 'She is walking'

Key Points

• It is clear through the word 'since' that the walking began in the morning and is still ongoing.

• In such cases, present perfect continuous tense is used since it is an action that is continuing in the present.

Thus the correct sentence is: She has been walking in the park since morning.

Additional Information

• Please refer to the following table for the types of tenses and their uses

Tense	Functions	Example
Present simple	used for facts, generalizations, and truths that are not affected by the passage of time	“She writes a lot of papers for her classes.”
Past simple	used for events completed in the past	“She wrote the papers for all of her classes last month.”
Future simple	used for events to be completed in the future	“She will write papers for her classes next semester.”
Present perfect	used to describe events that began in the past and are expected to continue, or to emphasize the relevance of past events to the present moment	“She has written papers for most of her classes, but she still has some papers left to write.”
Past perfect	used to describe events that happened prior to other events in the past	“She had written several papers for her classes before she switched universities.”
Future perfect	used to describe events that will be completed between now and a specific point in the future	“She will have written many papers for her classes by the end of the semester.”
Present continuous	used to describe currently ongoing (usually temporary) actions	“She is writing a paper for her class.”
Past continuous	used to describe ongoing past events, often in relation to the occurrence of another event	“She was writing a paper for her class when her pencil broke.”
Future continuous	used to describe future events that are expected to continue over a period of time	“She will be writing a lot of papers for her classes next year.”
Present perfect continuous	used to describe events that started in the past and continue into the present or were recently completed, emphasizing their relevance to the present moment	“She has been writing a paper all night, and now she needs to get some sleep.”
Past perfect continuous	used to describe events that began, continued, and ended in the past, emphasizing their relevance to a past moment	“She had been writing a paper all night, and she needed to get some sleep.”
Future perfect continuous	used to describe events that will continue up until a point in the future, emphasizing their expected duration	“She will have been writing this paper for three months when she hands it in.”

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Q2. Answer: (c) 3

The correct answer is 1, i.e., 'of being wrapped up in our own self'

Key Points

• The sentence uses the pronoun 'we' to talk about all people in general. All people is plural. Thus, there is an error in (3) as 'self' is singular

• Plural of self is selves.

Thus, the correct sentence is: The mobile phone which was primarily used to communicate with the outside world, has now become our primary instrument of being wrapped up in our own selves.

Confusion Points

• Note: Here, the subject of the sentence is 'the mobile phone' and hence the verb 'has' has been used correctly.

Q3. Answer: (b) for

The correct answer is for

Key Points

• The sentence intends to convey that: He felt sorry because she suffered a loss and thus, he is trying to empathize with her.

• 'about' means with respect to

• 'at' generally means focusing on a fact or looking at something

• 'from' is not a grammatically-right fit here

• 'for' is used to indicate the reason behind something; it is used as a function word to indicate the object or recipient of perception, desire, or activity

Thus the correct sentence is: He was sorry for her loss

Q4. Answer: (d) with

The correct answer is with

Key Points

• The statement says that the velocity is the rate of change of its position with regard to a frame of reference.

• 'with respect to' implies related to or with regard to something.

Thus the correct sentence is: The velocity of an object is the rate of change of its position with respect to a frame of reference.

Q5. Answer: (a) Famous

The correct answer is Famous

Key Points

• Given below are the word-meanings of the options:

Eminent	**(used about a person) famous and important**
Famous	known about by many people
Insignificant	too small or unimportant to be worth consideration
Bland	lacking strong features or characteristics and therefore uninteresting
Typical	having the distinctive qualities of a particular type of person or thing

Thus, the correct meaning of 'Eminent' is 'Famous'

Q6. Answer: (d) Proud

The correct answer is Proud

Key Points

• Given below are the word-meanings of the options:

Conceited	**too proud of yourself and your actions and abilities**
Factual	using or consisting of facts
Shy	nervous and uncomfortable with other people
Circular	shaped like a circle

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Proud	feeling pleasure and satisfaction because you or people connected with you have done or got something good

Thus, the correct meaning of 'Conceited' is 'Proud'

Q7. Answer: (d) Blame

The correct answer is Blame

Key Points

• Given below are the word-meanings of the given words:

Absolve	**(especially in religion or law) to free someone from guilt, blame, or responsibility for something**
Acquit	to decide officially in a law court that someone is not guilty of a particular crime
Clear	to remove or get rid of whatever is blocking or filling something, or to stop being blocked or full
Excuse	to forgive someone; a reason that you give to explain why you did something wrong
Blame	to say or think that someone or something did something wrong or is responsible for something bad happening

Thus, the opposite of 'Absolve' is 'Blame'

Q8. Answer: (c) Remote

The correct answer is Remote

Key Points

• Given below are the meanings of the mentioned words:

Adjacent	**very near, next to, or touching**
Nearby	not far away in distance
Joining	connecting or fastening things together
Remote	far away in distance
Bordering	sharing a border with another country, state, town, etc.

Thus, the correct answer is Option 3

Q9. Answer: (a) PRQ

The correct answer is PRQ

Key Points

• The first sentence ends with "up to". Hence the next sentence should begin with a living noun, i.e., "consumers" as mentioned in statement part P.

• According to 'P', consumers can appreciate something but if we continue with statement part Q, "appreciate exercise with power..." is grammatically wrong as two main verbs cannot exist successively

• However, hence consumers can appreciate the threat of antibiotic resistance... is meaningful because the subject (consumers) is doing some action (verb - appreciate) with the object (threat)

• The sensible flow of passage should be from the cause of appreciation to the object of appreciation and finally to the method of handling that appreciation

Hence, the correct answer is: It is up to the consumers now to appreciate the threat of antibiotic resistance and exercise this power with care.

Q10. Answer: (b) The comedian was laughed at by the audience.

The correct answer is: The comedian was laughed at by the audience

Key Points

• The given sentence is in the simple past tense (laughed at)

• Hence, the passive voice will be of the form: object+ was/were + past participle of laugh, i.e., laughed at+ by+subject

• The subject and object of the sentence in the active voice become the object and subject of the sentence in the passive voice.

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• The helping word 'by' is used to signify the doer in the passive voice

Q11. Answer: (a) He asked me if I was going to eat with them.

The correct answer is He asked me if I was going to eat with them.

Key Points

To change the sentence from Direct to Indirect we should:

• Make changes in tenses of reported speech only when the reporting verb is in the past tense.

• When the reported speech is an interrogative sentence we follow these steps-

• The reporting verb 'said' is changed into 'asked'.

• Connector 'if' or 'whether' is used in place of commas.

• Change the sentence, given in the reported speech, from interrogative to assertive.

• The tense of reported speech is changed accordingly.(in above sentence- 'are' changes into 'was')

• Personal Pronouns of reported speech are changed as per the subject and object of reporting verb. Here, the second person- 'You' will change into 'I' as per object - 'me' (hidden).

Thus the correct answer is Option 1

Q12. Answer: (d) Embarrass

The correct answer is Embarrass.

Key Points

• Embarrass means to cause (someone) to feel awkward, self-conscious, or ashamed

Additional Information

• Synonyms of 'Embarrass': Shame; Humiliate; Demean; Abash

Q13. Answer: (b) greatly

The correct answer is greatly

Key Points

• The word immediately after the blank is 'influenced' which is a verb

• Thus it should be preceded and qualified by an adverb

• The only adverb among the options is 'greatly'

• 'Great' is an adjective; 'greatness' is a noun; 'greater' is a comparative: Any of these three would make the sentence grammatically incorrect

Thus the correct sentence is: Indian corporates are greatly influenced by

Additional Information

• Synonyms of 'Great' - Significant; Exceptional; Extraordinary; Prominent

Q14. Answer: (b) compensation

The correct answer is compensation

Key Points

• If we carefully study the sentence, we can figure out that we need to choose the word which qualifies the type of practices in question

• Thus, the blank should be filled with a noun

• Among the given options, 'compensate', 'to compensate' and 'compensating' are verbs; only 'compensation' is a noun

• Compensation means 'money that you pay to somebody because you have injured him/her or lost or damaged his/her property'

Thus the correct sentence is: Management, including compensation practices

Q15. Answer: (c) ideal

The correct answer is ideal

Key Points

• We are supposed to fill the blank in order to describe a compensation strategy

• Thus, we have to use an adjective

• Among the options, 'ideally' is an adverb; 'ideals' is a noun; 'ideal' is an adjective; 'idealism' is a noun

• 'Ideal' means the best possible; perfect

Thus the correct phrase is: that would be ideal for Indian corporates.

Additional Information

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• 'Idealism' is the belief that a perfect life, situation, etc. can be achieved, even when this is not very likely

Q16. Answer: (c) Should

The correct answer is Should

Key Points

• When we read the given sentence in the passage, we find that the sentence just preceding this one is asking a question in the form of 'Should...?'

• This sentence, to maintain uniformity of tone and questioning, should again begin with the term 'should' to frame an immediately following question

Thus the correct phrase is: Japanese companies? Should there be some...

Q17. Answer: (c) Why

The correct answer is Why

Key Points

• If we carefully look at the passage, we find that a question regarding salary differentials has been asked just before this sentence

• To maintain uniformity of tone and the flow of inquisitiveness, the sentence aims to ask the reason behind the different renumeration of different functions

• This reason is denoted by the starting word 'Why'

Thus the correct phrase is: "...salary differentials? Why should different..."

Q18. Answer: (d) A very small amount compared with what is needed or expected.

The correct answer is A very small amount compared with what is needed or expected

Key Points

• A drop in the ocean is an idiom meaning an amount that is so small that it does not make an important difference or have much effect

Additional Information

• Similar idioms with their respective meanings:

cosmetic measure	**something that improves the appearance of a situation or thing but does not change its basic nature, and you are usually implying that they are inadequate. [disapproval]**
lick and a promise	a quick and careless attempt to do something
spit in the sea	A tiny or inconsequential amount, especially when compared to a much larger one
too little too late	not enough and not soon enough to make a difference

Q19. Answer: (b) Be grateful for what one has.

The correct answer is Be grateful for what one has.

Key Points

• Count one's blessings is an idiom meaning to make a special effort to appreciate the good things in one's life

• Example: I try to count my blessings every day. It's a great antidote to sadness!

Additional Information

• Similar idioms with their respective meanings:

a load/weight off your mind	**an occasion when a problem that has been worrying you stops or is dealt with**
owe a debt of gratitude/thanks	to have a reason to thank or feel grateful to another person for something good that they have done
thanks a million	thank you very much
I owe you (one)	said to thank someone for helping you and as a way of saying that you will do something for them in the future

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Q20. Answer: (c) Deterrence

The correct answer is Deterrence

Key Points

• Let's look at the meaning of each of the words given:

Buoy	**a floating object, fastened to the bottom of the sea or a river, that shows the places where it is dangerous for boats to go**	**The lifeguard used a buoy to help the swimmer who was struggling in the water.**
Spur	something that encourages you to do something or that makes something happen more quickly	The teacher's words spurred me on to do my best on the test.
Deterrence	the action of discouraging an action or event through instilling doubt or fear of the consequences	It was assumed that any Soviet leader would recognize the logic underlying US deterrence policy.
Exhilarate	to make (someone) very happy and excited or elated	The victory exhilarated the team.

Thus the correct answer is Option 3.

Q21. Answer: (d) Placate

The correct answer is Placate

Key Points

• Let's look at the meaning of each of the words given:

Sullen	**looking bad-tempered and not wanting to speak to people**
Offend	to hurt somebody’s feelings; to upset somebody
Chafe	(with reference to a part of the body) make or become sore by rubbing against something
Placate	to make somebody feel less angry about something

Thus the correct answer is Option 4

Q22. Answer: (c) joked

The correct answer is joked

Key Points

• The tense of the sentence as we can see from 'They teased...' is Simple Past Tense

• To agree with this, the Simple Past Tense of 'joke' i.e., 'joked' should be used

Thus the correct sentence is: They teased and joked with the patient and didn't stop till they elicited a favourable response from her.

Q23. Answer: (d) no improvement

The correct answer is No improvement

Key Points

• When it came to inheritance, the action of overlooking is dependent on this clause with time

• Thus we use the Past Perfect Tense of overlook, i.e, had been overlooked should be used in the context of the sentence

Thus the correct sentence is: Maybe Karishma wasn't the only one who had been overlooked by Mrs. Shah when it came to inheritance.

Q24. Answer: (b) CAB

The correct answer is CAB

Key Points

• The articles 'A and/or An' imply that a singular noun should follow.

• Thus, B can't be first since it starts with buses (plural).

• Out of A and C:

• ACB talks about a country that had well-connected old city..., which is absurd

• CAB gives a coherent meaning to the paragraph

Thus the correct answer is: Years later I moved to an old city on the east coast of the country that had well-connected buses, subways and tram systems.

Q25. Answer: (b) Repository

The correct answer is Repository.

Key Points

• Repository: a place where things are stored and can be found

• Synonyms of Repository: archive; depository; storehouse; depot

Q26. Answer: (b) Circle : Circumference

The logic used here is,

→ Just as the total length of the boundary of the square is termed as perimeter. Similarly, the total length of the boundary of the circle is termed as circumference.

Hence, the correct answer is " Circle: Circumference ".

Q27. Answer: (c) 25

The pattern Followed here is :

15 + 2 = 17

Similarly:

23 + 2 = 25

Hence, 25 is the correct answer.

Q28. Answer: (c) PCE

The pattern followed here is:-

PGY is related to JAS as:-

Similarly,

VIK is related to PCE as:-

Hence, the correct answer is "PCE".

Q29. Answer: (c) Scale - Length

The logic used here,

→ The first term is the unit, and the second term is its measuring instrument.

Let's check each option,

Option	Unit	Measuring Instrument
1	Mass	Balance
2	Temperature	Thermometer
3	Scale	Length
4	Pressure	Barometer

Here, we can see that Option 3 doesn't satisfy the logic with its ordering.

Hence, the correct answer is " Scale - Length ".

Q30. Answer: (d) 14 - 2788

The Logic followed here is:-

(First number)^3 = Second number

1) In 11 - 1331

11 × 11 × 11 = 1331

2) In 15 - 3375

15 × 15 × 15 = 3375

3) In 12 - 1728

12 × 12 × 12 = 1728

4) In 14 - 2788

14 × 14 × 14 = 2744 not 2788

Hence, the correct answer is "14 - 2788".

Q31. Answer: (a) HPY

The pattern followed here is:-

1) In HPY

2) In AIQ

3) In GOW

4) In DLT

We can seen Clearly, HPY does not follow the same pattern as the other three options.

Hence, the correct answer is "HPY".

Q32. Answer: (b) 32415

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

3. Forget

2. Form

4. Fortify

1. Fortitude

5. Fragrant

Hence, the correct answer "32415".

Q33. Answer: (a) 21

The logic used here is,

Hence, the correct answer is " 21 ".

Q34. Answer: (a) MTP

The pattern followed here is,

Hence, the correct answer is " MTP ".

Q35. Answer: (b) Lalit

Given →

1) Lokesh is taller than Gagan but not shorter than Abhishek.

Lokesh > Gagan

Lokesh > Abhishek

2) Abhishek and Suresh are of same height.

Abhishek = Suresh

3) Lokesh is shorter than Lalit.

Lokesh < Lalit

From the combination of 1) and 2) and 3), we get:-

Lalit > Lokesh > Abhishek = Suresh

Or

Lalit > Lokesh > Gagan

As we can seen clearly Lalit is the tallest boy.

Hence, the correct answer is " Lalit".

Q36. Answer: (b) STICK

Given word → GYMNASTIC

1) MAN → GYMNASTIC (All the letter are present so, the word 'MAN' can be formed)

2) STICK → GYMNASTIC (Cannot be formed because K word is missing in GYMNASTIC)

3) GYM → GYMNASTIC (All the letter are present so, the word 'GYM' can be formed)

4) AIM → GYMNASTIC (All the letter are present so, the word 'AIM' can be formed)

Hence, the correct answer is "STICK".

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Q37. Answer: (c) Yellow

We write on paper and in the given language, yellow is the code for paper.

Hence, the correct answer is " Yellow ".

Q38. Answer: (d) 7

Given equation → 6 × 6 ÷ 10 - 8 + 2 = ?

Symbols	•	•	÷	×
Code	•	×	•	÷

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

New equation → 6 ÷ 6 – 10 + 8 × 2

Now, after applying BODMAS Rule, we get:-

6 ÷ 6 – 10 + 8 × 2

1 – 10 + 8 × 2

1 – 10 + 16

17 - 10 = 7

Hence, the correct answer is "7".

Q39. Answer: (c) ÷ and ×

15 + 2 ÷ 20 × 10 – 6 = 13

However, after interchanging ÷ and ×, we will get the required answer:

15 + 2 × 20 ÷ 10 – 6

15 + 4 – 6

19 – 6 = 13

Hence, ÷ and × is the correct answer.

Q40. Answer: (a) -30

8 % 5 = (8 - 5) × 10 = 30

9 % 2 = (9 - 2) × 10 = 70

1 % 4 = (1 - 4) × 10 = -30

Similarly,

2 % 5 = (2 - 5) × 10 = -30

Hence, -30 is the correct answer.

Q41. Answer: (b) ABABABAB

The logic followed here,

→ After every term, A is replacing C and B is replacing D.

CDCDCBAB, CDCDABAB, CDCBABAB, CDABABAB, CBABABAB, ABABABAB.

Hence, the correct answer is " ABABABAB ".

Q42. Answer: (b) 4 km West

As per the given information,

1) P rides 8 km north.

2) Then turns west and rides 6 km.

3) Then turns to her right and rides 4 km.

4) Q rides 10 km west.

5) Then turns to her right and rides 12 km.

Now, combining the distance and turns of both P and Q, we get:

Here, we can see that Q is 4 km west of P.

Hence, the correct answer is " 4 km West ".

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

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

I. All vines are climbers → False. (It is possible but not definite true as there is no mentioned relation between Vines and

Climbers).

II. No climbers are vines → False. (It is possible but not definite true as there is no mentioned relation between Climbers and Vines).

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

Q44. Answer: (a) HGD

Triangle represents Photographers.

Rectangle represents Actors.

Circle represents Art Critics.

The set of letters representing Photographers who are Actors or Art Critics = (Common section of Triangle and Rectangle) + (Common section of Triangle and circle).

Hence, the correct answer is " HGD ".

Q45. Answer: (b) LJS

The pattern followed here is:-

Hence, the correct answer is "LJS".

Q46. Answer: (c) 106

The pattern followed here is:-

Hence, the correct answer is "106".

Q47. Answer: (b) (96, 48, 20)

The Logic followed here is:-

Second number × 2 = First number ; Third number × 2 = Second number

1) In (64, 32, 16)

16 × 2 = 32 ; 32 × 2 = 64

2) In (96, 48, 20)

20 × 2 = 40 ≠ 48 ; 40 × 2 = 80 ≠ 96 (So, it is an odd pair as it does not follow the logic)

3) In (144, 72, 36)

36 × 2 = 72 ; 72 × 2 = 144

4) In (216, 108, 54)

54 × 2 = 108 ; 108 × 2 = 216

Hence, the correct answer is "(96, 48, 20)".

Q48. Answer: (a) [figure]

Hence, the correct answer is " Option 1 ".

Q49. Answer: (d) [figure]

Let's check each option as per the opposite face pattern,

1)

→ Can be formed.

2)

→ Can be formed.

3)

→ Can be formed.

4)

→ Can't be formed as

and

should be the opposite faces.

Here, we can see that only cube in option 4 can't be formed.

Hence, the correct answer is " Option 4 ".

Q50. Answer: (c) 23, 43, 96, 34

Let's check each option,

1) 13, 58, 20, 55 = G, U, I, Y

2) 11, 95, 42, 79 = K, O, J, T

3) 23, 43, 96, 34 = L, A, N, D

4) 30, 78, 42, 85 = L, R, J, Z

Hence, the correct answer is " 23, 43, 96, 34 ".

Q51. Answer: (a) 17/13

Calculation:

cbrt(4913/2197) = cbrt(17 × 17 × 17)/(13 × 13 × 13) = 17/13

Q52. Answer: (d) 12, 13

Calculation:

Let the number be x and y

(x + y) = 25 ----(1)

=> (x^2 + y^2) = 313

=> $(x + y)^2 = x^2 + y^2 + 2xy$

=> $(25)^2 = 313 + 2xy$

=> xy = 156

$(x + y)^2 - (x - y)^2 = 4ab$

$625 - (x - y)^2 = 4 \times 156$

(x - y) = 1 ----(2)

From equation 1 & equation 2

Therefore x = 13 & y = 12

Q53. Answer: (a) 0

Given:

$a^2 + b^2 - 6a - 6b + 18 = 0$

Calculation:

$=> a^2 - 2 \times a \times 3 + 3^2 + b^2 - 2 \times b \times 3 + 3^2=0$

$=> (a - 3)^2 + (b - 3)^2 = 0$

$=> (a - 3)^2 = 0$ & $(b - 3)^2 = 0$

=> a - 3 = 0 & b - 3 = 0

=> a = 3 & b = 3

Therefore a - b = 0

Q54. Answer: (b) b^2

Given:

$(1 + a^2)x^2 + 2abx + (b^2 - c^2)= 0$

Calculation:

Comparing on $Ax^2 + Bx + C = 0$

$A = 1 + a^2$, B = 2ab & $C = (b^2 - c^2)$

Now, $B^2 - 4AC = 0$

$=> (2ab)^2 - 4 \times (1 + a^2) \times (b^2 - c^2) = 0$

$=> 4a^2b^2 - 4(b^2 - c^2 + a^2b^2 - a^2c^2) = 0$

$=> 4a^2b^2 - 4b^2 + 4c^2 - 4a^2b^2 + 4 a^2c^2 = 0$

$=> - b^2 + c^2 + a^2c^2 = 0$

$=> c^2 + a^2c^2 = b^2$

Therefore $c^2 (1 + a^2) = b^2$

Q55. Answer: (c) 24

Calculation:

In the following figure AB and CD are two equal cords of length 10 cm. where EF = x cm,

AF = FB = 5, CE = ED = 5,

Diameter = 26 cm

So, r = 13

In right ΔOBF

$(OB)^2 = (FB)^2 + (OF)^2$

$\Rightarrow (13)^2 = 5^2 + (0F)^2$

$\Rightarrow OF = 12$

Similarly, we can find OE = 12

Therefore Distance between the cord is EF = OF + OE = 12 + 12 = 24 cm

Q56. Answer: (c) 60°

Calculation:

angle A = angle B = 90° & angle O = 120°

So, angle A + angle B + angle O + angle P = 360°

=> 90° + 90° + 120° + angle P = 360°

=> angle P = 360° - 300°

Therefore angle P = 60°

Q57. Answer: (b) 242000

Calculation:

The population of the town is 2,00,000

The population will be after 2 years = $200000 \times (1 + 10/100)^2$

$\Rightarrow 200000 \times 110/100 \times 110/10$

= 242000

Therefore The population will after 2 years is 242000

Q58. Answer: (c) 25000

Calculation:

Let the income of X and Y be 5a and 6a and the expenditure of X and Y be 6b and 5b.

X saves 7000 and Y saves 15000. Then

5a - 6b = 7000 ----(1)

6a - 5b = 15000 ----(2)

Equation (1) + equation (2), we get

a - b = 2000 ----(3)

And equation (2) - equation (1), we get

a + b = 8000 ----(4)

Solving equation (3) and equation (4) we get

a = 5000 & b = 3000

Therefore Income of X = 5 × 5000 = 25000

Q59. Answer: (a) 16 : 15

Shortcut Trick

Profit Ratio = (Capital_X × Time_X) : (Capital_Y × Time_Y)

Ratio = (80,000 × 24) : (1,00,000 × 18)

Ratio = (8 × 24) : (10 × 18)

Ratio = 192 : 180 = 16 : 15

Therefore The correct answer is 16 : 15.

Alternate Method

Given: Capital of X = Rs. 80,000, Capital of Y = Rs. 1,00,000, Total Time = 2 years (24 months), Y joins after 6 months.

Formula: Profit Ratio = Product of Investment and Duration

=> Time for which X invested = 2 years = 24 months

=> Time for which Y invested = 24 − 6 = 18 months

=> Profit of X : Profit of Y = (80,000 × 24) : (1,00,000 × 18)

=> Ratio = (8 × 24) : (10 × 18)

=> Ratio = 192 : 180

=> Ratio = (192 ÷ 12) : (180 ÷ 12)

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=> Ratio = 16 : 15

Therefore The correct answer is 16 : 15.

Additional Information

Compound Partnership

When partners invest different amounts for different time periods, the profit is shared in the ratio of (Capital × Time).

Capital Ratio Formula

If profits and time periods are known, the Capital ratio is calculated as: C1 : C2 = (P1/T1) : (P2/T2).

Time Ratio Formula

If profits and capitals are known, the Time ratio is calculated as: T1 : T2 = (P1/C1) : (P2/C2).

Q60. Answer: (c) 50

Calculation:

Sum of N natural numbers = N/2(1st term + last term)

And, Average of N natural numbers = (1st term + last term)/2

Average = 1 + 2 + ……..+ 99

= (99 +1)/2

= 50

Q61. Answer: (b) 12

Calculation:

5 year interest = Rs. 3000

=> 1 year interest = 600

Total sum = 5000

S.I = (P × T × R)/100

=> R = S.I/(P × T) × 100

Therefore Rate (R) = 600/5000 × 100 = 12%

Q62. Answer: (a) 3886

Calculation:

CP of the article = Rs. 5800

Loss percentage = 33%

Selling price of the article = 5800 × (100 - 33)/100

= 5800 × 67/100

= 58 × 67

= 3886

Therefore The SP of the article is 3886.

Q63. Answer: (b) 50

Calculation:

SP of the article = 300

MP of the article = 300 + 20 = 320

Let CP of the article = 100%

MP of the article = 100% + 60% = 160%

=> 160% ≡ Rs. 320

=> (CP) = 100% ≡ Rs. 200

Therefore Profit % = (300 - 200)/200 × 100 = 50%

Alternate Method Let the CP be 100 units

MP = 160 units (60% more than CP)

SP = Rs. 300, Discount = Rs. 20

MP = SP + Discount

MP = 300 + 20 = Rs. 320

160 units = Rs. 320

1 unit = Rs. 2

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CP = 100 units = 100 × 2 = Rs. 200
SP = Rs. 300 (Given)
Profit = SP - CP = 300 - 200 = Rs. 100
Profit % = (Profit/CP) × 100
Profit% = (100/200) × 100 = 50%

Q64. Answer: (c) 5

Calculation:
(√96 + √216)/√24
= (4√6 + 6√6)/(2√6)
= (10√6)/(2√6)
= 5

Q65. Answer: (c) 775/6

Calculation:
The ratio of efficiency of A, B, and C = 15 : 10 : 6
Ratio of time of A, B and C = 1/15 : 1/10 : 1/6 = 2 : 3 : 5
Let A alone can complete the work in = 2x days
B alone can complete the work in = 3x days
And C alone can complete the work in = 5x days
According to the question,
1/2x + 1/3x + 1/5x = 1/25
=> 31/30x = 1/25
=> x = 155/6
So, C alone can complete the work in = 5x = 5 × 155/6 = 775/6 days
Shortcut Trick
Total work = (15 + 10 + 6) × 25 = 31 × 25 = 775
Therefore C will complete the work = 775/6

Q66. Answer: (c) 36

Calculation:
Distance = 300 m and time
= 30 sec
Speed = distance/time
= (300 m)/(30 sec)
= (300 × 60 × 60)/(1000 × 30) km/h
= 36 km/h

Q67. Answer: (b) B

Because author B is followed by maximum (500) people.

Q68. Answer: (d) 35.55%

Total respondents = 2250
Respondents who say their favourite author is A = 300
& respondents who say their favourite author is B = 500
(A + B) = 800
Therefore Required Percentage = 800/2250 × 100 = 35.55%

Q69. Answer: (b) 64

2250 people represent = 360°
=> 1 people represent = 360°/2250
Therefore 400 people represent = 400/2250 × 360°= 64°

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Q70. Answer: (a) 2250

Therefore Total number of people who have responded to the survey = A + B + C + D + E + F + G = 2250

Q71. Answer: (a) 20

Calculation:

$a^2 = (d1/2)^{-2} + (d2/2)^2$

$\Rightarrow a^2 = 3^2 + 4^2$

$\Rightarrow a = 5$

Therefore Perimeter of rhombus = 4a = 20

Q72. Answer: (c) 144

Calculation:

Interior angle of a regular polygon whose side is n

$= [(n - 2)/n] \times 180°$

$= [(10 - 2)/10] \times 180$

$= 144°$

Q73. Answer: (c) 77

Calculation:

d = 7 and r = 7/2

The curved surface area of the hemisphere = $2\pi r^2$

$= 2 \times 22/7 \times 7/2 \times 7/2$

= 77

Therefore curved surface area is 77 cm2

Q74. Answer: (b) (2 + √3)/2

Calculation:

If angle A = 45° & angle B = 90°

So, angle C = 45°

(tanC + √3/2) = tan 45° + (√3)/2

= 1 + (√3)/2

= (2 + √3)/2

Q75. Answer: (d) 6.5

Calculation:

In ΔXYZ

Cot X = base/perpendicular

$\Rightarrow$ Cot X = 2.5/p

$\Rightarrow$ 5/12 = 2.5/p

$\Rightarrow$ P = 6 cm

Using Pythagoras theorem

$(XZ)^2 = (XY)^2 + (YZ)^2$

$\Rightarrow (XZ)^2 = (2.5)^2 + 6^2$

$\Rightarrow (XZ)^2 = 6.25 + 36$

$\Rightarrow (XZ) = \sqrt{42.25} = \sqrt{(6.5 \times 6.5)}$

Therefore XZ = 6.5

Q76. Answer: (c) Stocks

Debt instruments are the assets that require a fixed payment with interest to the holder. Its examples include mortgages and bonds (corporate or government). Stocks cannot be called a Debt instrument.

Q77. Answer: (a) Third Plan

• The Third Five Year Plan stressed on the growth of industries and agriculture.

• It aimed at increasing the agricultural production by 30%, however, India failed to achieve its target because of wars with Pakistan and China in 1965 and 1962 and also because of the bad monsoon.

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Q78. Answer: (c) Battle of Khanwa

• Babur held the title of Ghazi after the Battle of Khanwa(17th March 1527).

• The battle which was fought between Rana Sanga and the Mughal ls was a decisive one which established the Mughal rule in India.

Q79. Answer: (d) The establishment of the College of Hellbury

The correct answer is option 4 i.e. The establishment of the College of Hellbury.

• Warren Hastings was the first Governor-General of Bengal from 1773 to 1785.

• He was also a part of the First Anglo-Maratha War, Rohilla War, and the Chait Singh Incident.

Q80. Answer: (c) Ecuador

Cotopaxi in the Andes Mountains, is the active stratovolcano which is located in Ecuador, South America. It is one of the highest volcanic mountains of the world. Till date, it has erupted 50 times since 1738.

Q81. Answer: (c) Kerala

The correct answer is Kerala

• Cardamom hill is located in both Kerala and Tamil Nadu so if in option Tamil Nadu is given it should also be choosen

Key Points

• The Cardamom Hills, also known as Yelamala are the southern mountain ranges and also the part of southern Western Ghats.

• They are located in southwest Tamilnadu and southeast Kerala.

• Their name is derived from the cardamom spice which is grown there. Coffee and pepper are also grown in those hills.

Q82. Answer: (c) Hindustani vocalist

Pandit Bhimsen Joshi was an Indian classical singer from Karnataka. He is known for his popular renditions of devotional music and also for his Khayal form of singing. He is a recipient of awards like Bharat Ratna and Sangeet Natak Akademi Fellowship.

Q83. Answer: (b) Creating shared future in a fractured world

The correct answer is Creating shared future in a fractured world.

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 the 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.

Important Points

• World Economic Forum (WEF) was held in Davos, Switzerland from 22 May to 26 May 2022.

• The theme of the meeting was 'History at a Turning Point: Government Policies and Business Strategies'.

• Commerce & Industry Minister Piyush Goyal, Health Minister Mansukh Mandaviya, and Petroleum and Natural Gas Minister Hardeep Singh Puri were some of the key ministers who attended the meeting.

Q84. Answer: (c) Cristiano Ronaldo

Cristiano Ronaldo won the ‘FIFA Men's Player of The Year Award’ on October 23, 2017, for the fourth time in five years. Olivier Giroud won the best goal, while Lieke Martens won the best female player.

Q85. Answer: (d) 5^(th)

In terms of population, Pakistan stands at 5th place in the world having 216,565,318 population.

Top 10 countries with highest population:

1. China	**1,415,045,928**
2. India	1,354,051,854
3. United States	326,766,748
4. Indonesia	266,794,980
5. Pakistan	216,565,318

6. Brazil	211,049,527
7. Nigeria	195,875,237
8. Bangladesh	166,368,149
9. Russia	143,964,709
10. Mexico	130,759,074

Q86. Answer: (b) Dalton

'The atomic theory' of a matter is a scientific theory that tells about the nature of matter. It states that matter is composed of units called atoms. John Dalton first formulated this theory, however, the existence of an atom was first suggested by Democritus.

Q87. Answer: (c) Antacid

• Antacids are used for treating indigestion. They neutralize excess stomach acid to relieve sour stomach, heartburn, stomach upset, and acid indigestion.

• Antibiotics are used to treat diseases caused by bacteria,.

• Analgesics are painkillers which are used to treat pain and fever.

• Antiseptics are used to reduce the possibility of any sepsis or infection.

Q88. Answer: (a) Speaker

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

• The speaker in Lok Sabha is not allowed to vote in the first instance during voting.

• The First Session of the First Lok Sabha commenced on 13 May 1952.

• The Lok Sabha (House of the People) was duly constituted for the first time on 17 April 1952 after the first General Elections held from 25 October 1951 to 21 February 1952.

• Shri G.V. Mavalankar was the first Speaker of Lok Sabha.

Q89. Answer: (d) President of India

The correct answer is option 4 i.e. President of India.

• The Indian Parliament comprises of the President and the two Houses - Rajya Sabha (Council of States) and Lok Sabha (House of the People).

• The President has the power to summon and prorogue either House of Parliament or to dissolve Lok Sabha.

• President of India prorogues Houses of Indian Parliament at the end of winter, monsoon, and Budget session.

• Draupadi Murmu is the current President of India (July 2022).

• She is the first tribal president of India.

Q90. Answer: (d) Pancreatic juice

The correct answer is Pancreatic juice

Explanation:

• The pancreas secretes a liquid substance called pancreatic juice, which contains digestive enzymes.

• Trypsinogen, chymotrypsinogen, procarboxypeptidases, amylases, lipases, and nucleases are among the inactive enzymes found in the pancreatic juice secreted by the pancreas.

• These enzymes help in the breakdown of all food components that require digestion.

• Enterokinase, an enzyme secreted by the intestinal mucosa, converts trypsinogen into active trypsin.

• Trypsin helps to convert proteins into peptones.

• Chymotrypsinogen is a degrading enzyme that breaks down proteins into smaller peptides.

• Procarboxypeptidases enzymes remove C-terminal amino acids from peptides and proteins

• Amylase enzyme converts starch to maltose.

• Lipase is a digestive enzyme that breaks down fats into glycerol and fatty acids.

• Nucleases enzymes are specifically designed to break down the nucleotides that make up DNA and RNA.

Conclusion:

Trypsin is found in the digestive system. It hydrolyzes proteins. It is present in the pancreatic juice and formed in the small intestine.

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Q91. Answer: (a) Pond water

The correct answer is Leeuwenhoek.

Key Points

• Antonie van Leeuwenhoek
• He is also known for the discovery of bacteria.
• He is regarded as the father of microbiology.
• Anton van Leeuwenhoek laid the foundation of plant anatomy and studied animal reproduction in detail.
• He was a Dutch microscopist and biologist born in Delft, Netherlands.
• He experimented with and observed microscopic organisms in the year 1676.
• He is probably best known for his refinement of the microscope.
• He increased the magnifying power of the microscope from 20x to 270x.
• He was the first to observe bacteria and protozoa with his single-lensed microscope.
• In 1674, he observed small single-celled organisms and named them 'Animalcules'.
• In 1677, he discovered sperm in mammals.
• He was also the first person to study blood vessels and discovered blood cells and nematodes living in blood.

Q92. Answer: (c) 7

• 7 companies were given the Letter of Intent by the Union Ministry of Tourism for adopting 14 monuments under the ‘Adopt a Heritage Scheme’.
• The companies shortlisted will be the future ‘Monument Mitras’ who would associate pride with their CSR activities.

Q93. Answer: (c) Kepler-90i

• Kepler–90i is the eighth planet discovered by NASA, circling Kepler- 90. It is a sun-like star which is 2545 light years far from the Earth.
• It was discovered by researchers Andrew Vanderburg and Christopher Shallue.

Q94. Answer: (c) Quarterly

The correct answer is Quaterly.

Key Points

• Under GST regime, in ‘Composition Scheme’, taxpayers have to file returns Quaterly.
• GST is a value-added tax.
• It is a destination-based tax i.e. It will be levied at the point of consumption.
• Dual GST viz. Central GST (CGST) & State GST (SGST)
• Tax on inter-state supplies is Integrated Goods & Services Tax (IGST).
• It was introduced in Loksabha in 2014 as the 122nd Constitutional Amendment Bill.
• It was passed as the 101st Constitutional Amendment Act, 2016.
• Article 279A provides for a GST council to administer GST.

Q95. Answer: (b) National Monument Authority

On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017 to allow the government to take up infrastructure projects around protected monuments within their prohibited areas. The Bill empowers the National Monument Authority to consider an impact assessment of proposed works in the prohibited area.

Q96. Answer: (a) 100

The correct answer is 100.

Key Points

Frequency:

• The number of cycles or complete oscillations made by a vibrating object in one second is called Frequency.
• Simply saying, it is the total number of cycles per unit of time.
• The SI Unit of frequency is Hertz (Hz).

Time period:

• It refers to the time taken to complete one vibration.
• Frequency(f) and time period (T) are inversely proportional:
• T= 1/f

Calculations:

we have a formula for frequency

• Frequency (f) = 1/T (time period)

• therefore, 1/0.01 = 100

• f = 100Hz

Q97. Answer: (b) N m²kg^(-2)

Concept:

Universal Gravitational Law:

• Sir Isaac Newton put forward the universal law of gravitation in 1687 and used it to explain the observed motions of the planets and moons.

• Newton's Law of Universal Gravitation states that every particle attracts every other particle in the universe with force directly proportional to the product of the masses and inversely proportional to the square of the distance between them.

• • Formula, Force, F=GM1M2/(r²) where, F is the gravitational force between bodies, M1 and M2 are the masses of the bodies, r is the distance between the centers of two bodies, and 8G is the universal gravitational constant.

• Here, G = 6.673 x 10-11 N m2/kg2.

• Acceleration due to gravity:

• Acceleration due to gravity is the acceleration gained by an object due to gravitational force.

• Its SI unit is m/s2. It has both magnitude and direction, hence, it's a vector quantity.

• Acceleration due to gravity is represented by g.

• The standard value of g on the surface of the earth at sea level is 9.8 m/s2.

Explanation:

• The gravitational constant is the proportionality constant used in Newton's Law of Gravitation and is commonly denoted by G.

• The value of G in the SI system is 6.674 × 10^(−11)N m2kg^(–2).

Q98. Answer: (d) Richter

The correct answer is Richter

CONCEPT:

• The power of an earthquake is expressed in terms of a magnitude on a scale called the Richter scale.

• The Richter scale was developed by Charles F. Richter and is used to measure the strength or magnitude of an earthquake.

Explanation:

Earthquake: An earthquake is a sudden shaking or trembling of the earth which lasts for a very short time. It is caused by a disturbance deep inside the earth's crust.

• An earthquake is measured with a machine called a seismograph. The power of an earthquake is expressed in terms of magnitude on a scale called the Richter scale.

• An earthquake of 2.0 or less can be felt only a little.

• An earthquake over 5.0 can cause damage from things falling.

• A 6.0 or higher magnitude is considered very strong and 7.0 is classified as a major earthquake.

• Really destructive earthquakes have magnitudes higher than 7 on the Richter scale.

• Richter scale is not linear. This means that an earthquake of magnitude 6 does not have one and a half times the destructive energy of an earthquake of magnitude 4.

• In fact, an increase of 2 in magnitude means 1000 times more destructive energy. Therefore, an earthquake of magnitude 6 has a thousand times more destructive energy than an earthquake of magnitude 4.

Q99. Answer: (b) Only B

• Roger Federer won the Tennis 2017 Australian Open Men's Singles.

• In 2017, Virat Kohli captained the IPL team Royal Challengers Bangalore.

• Chen Meng won the Table Tennis 2017 ITTF World Tour Grand Finals Women's.

Q100. Answer: (b) Electronic Device

The correct answer is Electronic Device.

Key Points

• Microwave ovens and washing machines are both controlled by electronics that are built into these appliances.

• When garments are agitated in a washing machine, stains are removed by rubbing them against one another as they move back and forth inside the drum filled with water and detergent.

- Inside the oven, a magnetron electron tube generates microwaves.
- Food absorbs the microwaves after they are reflected by the oven's metal inside.

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