SSC CHSL Previous Paper 27 (Held On: 16 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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Practise under exam conditions, then review your answers after you submit.

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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'.

My mother (1)/ told me (2)/ not to eat the junk food. (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'.

Early marriages not only leads to high-population (1)/ and thwart the progress of our young population, (2)/ but also entail an enormous amount of trouble to young mothers. (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.

There is a cat _____ the house.

(a) At
(b) For
(c) Of
(d) In

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 sound which is _____ to ears comes in the form of a melody.

(a) Soothing
(b) Fizzing
(c) Buzzing
(d) Razzing

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

Obstreperous

(a) Noisy
(b) Quiet
(c) Restrained

(d) Silent

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

Deluge

(a) Famine
(b) Overflow
(c) Drip
(d) Filter

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

Punctilious

(a) Careful
(b) Formal
(c) Exact
(d) Easy-going

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

Deferential

(a) Civil
(b) Submissive
(c) Polite
(d) Arrogant

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

Endothelial cells

P: the damaged cell

Q: restoring circulation to

R: are useful in

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

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 rascal cheated him out of his money.

(a) His money was cheated out by the rascal.
(b) He was cheated out of his money by the rascal.
(c) He was cheated out of money by the rascal.
(d) Money was cheated by the rascal of him.

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.

“Stop!” shouted the Inspector to his men.

(a) The Inspector shouted to his men to stop.
(b) The Inspector asked them to stop.
(c) The men were asked to stop by the Inspector.
(d) The Inspector ask if men would stop.

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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) Inocculate
(b) Inoculate
(c) Inouclulate
(d) Inoculait

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.

This is the arresting and dominant fact about modern social discussion; that the quarrel is _____ merely about the difficulties, but about the aim. We agree about the evil; it is about the good that we should tear each _____ eyes out. We all admit that a lazy aristocracy is a bad thing. We should not by ____ means all admit that an active aristocracy would be a good thing. We all feel angry with an irreligious priesthood; but some of us would ___ mad with disgust at a really religious one. Everyone is indignant if our army is weak, _____ the people who would be even more indignant if it were strong.

Q13. that the quarrel is _____ merely about the difficulties,

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

Q14. we should tear each _____ eyes out.

(a) Others
(b) Other's
(c) Other
(d) Otherwise

Q15. We should not by _____ means all admit

(a) Anything
(b) Anybody
(c) Anyways
(d) Any

Q16. but some of us would _____ mad with disgust

(a) Go
(b) Gone
(c) Going
(d) Went

Q17. our army is weak, _____ the people who

(a) Include
(b) Including
(c) Includes
(d) Includable

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

Easier said than done

(a) A task which is expected to be difficult turns out to be easy.
(b) Intentionally tell some one that a difficult task is easy.
(c) Be more easily talked about than put into practice.
(d) Once a difficult task is done it feels easy.

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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.

A red rag to a bull

(a) A few inspirational words can do wonderful things.
(b) An object, utterance, or act which is certain to provoke someone.
(c) A signal or symbol used to warn a person.
(d) All prepared and waiting for the signal to start.

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

A plant, leaf, or flower becoming limp

(a) Bolster
(b) Invigorate
(c) Wilt
(d) Fortify

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

Reduce something in size, amount, or extent by a gradual series of steps

(a) Concoct
(b) Whittle
(c) Beget
(d) Exigency

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".

The report (has already been) given to the Board.

(a) Have already been
(b) Have already being
(c) Has already being
(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".

You see a curtain of fog (hanged) low, suspended over the fresh green grass

(a) Hangs
(b) Were hang
(c) Hanging
(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.

The 1980s saw the introduction

A-of the gas lighter that we

B-commonly use now, which has

C-almost destroyed the match industry

(a) CBA
(b) ABC
(c) CAB
(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) Petronage
(b) Patronag
(c) Petronag
(d) Patronage

GENERAL INTELLIGENCE

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

Person : House :: ? : ?

(a) Aquarium : Fish
(b) Lion : Den
(c) Nest : Bird
(d) Farmer : Crop

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

14 : 200 :: 18 : ?

(a) 328
(b) 340
(c) 460
(d) 350

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

RPQ : PNO :: JEK : ?

(a) HDH
(b) HCI
(c) KGL
(d) KGM

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

(a) Register
(b) Pen
(c) Pencil
(d) Writer

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

(a) 11 - 16
(b) 13 - 18
(c) 36 - 41
(d) 23 - 26

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

(a) TOJE
(b) VQLG
(c) XSNI
(d) PKFB

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

1. Circumstances
2. Circulate
3. Circumference

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4. Circular

5. Circulation

(a) 54213
(b) 42531
(c) 35214
(d) 12534

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

19, 26, 40, 61, ?, 124

(a) 89
(b) 82
(c) 65
(d) 98

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

YZ, VW, ST, ?, MN

(a) QR
(b) PH
(c) RS
(d) PQ

Q35. Mayank remembers that the examination is after 18^(th) December but before 21st December, while Suraj remembers that the examination is before 24^(th) December but after 19th December. On which date of December is the examination?

(a) 20
(b) 21
(c) 19
(d) 22

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

Tribulations

(a) Bastion
(b) Trust
(c) Ribbon
(d) Slit

Q37. In a certain code language, “MATE” is written as “41” and “LION” is written as “52”. How is “TARM” written in that code language?

(a) 55
(b) 53
(c) 52
(d) 54

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

13 ÷ 18 – 5 + 10 × 2 = ?

(a) 20
(b) 48
(c) 45
(d) 42

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

15 × 4 + 10 – 10 ÷ 14 = 10

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

Q40. If 18$6 = 6, 8$2 = 3 and 8$4 = 2, then find the value of 18$12 = ?

(a) 3
(b) -8
(c) 4
(d) 6

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

PQQPPPPP, PPQQPPPP, PPPQQPPP, PPPPQQPP, PPPPPQQP, _____.

(a) QQPPPPPP
(b) PQQPPPPP
(c) PPQQPPPP
(d) PPPPPPQQ

Q42. A woman starts walking from her village to a town. She walks 4.5 km North, then turns West and walks 2 km, then turns South and walks 4.5 km, then turns to her right and walks 6 km. Where is she now with reference to her starting position?

(a) 4 km West
(b) 8 km East
(c) 4 km East
(d) 8 km West

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 shoes are boots.

Statement II: No sneakers are shoes.

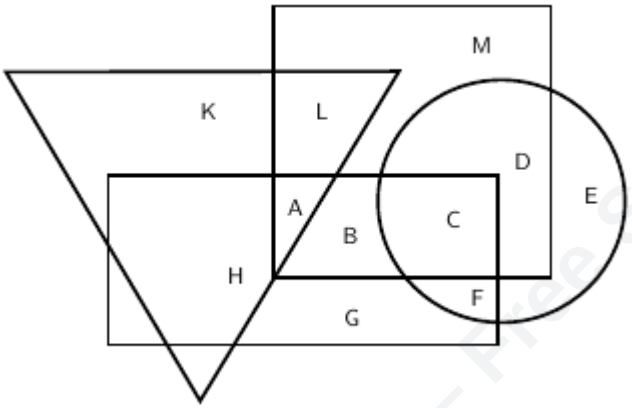
Conclusion I: Some boots are sneakers.

Conclusion II: All sneakers are boots.

(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 Reporters, circle represents Artists, triangle represents Mountain climbers and square represents Football players. Which set of letters represents Reporters who are Mountain climbers?

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(a) AH
(b) BG
(c) CF
(d) LM

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

HVJ, FTH, DRF, BPD, ?

(a) YMA
(b) ZNB
(c) AOC
(d) BPD

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

3, 4, 6, 9, 13, ?

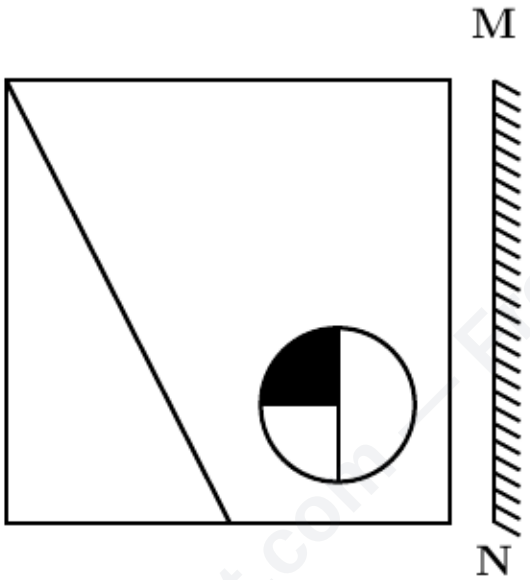
(a) 17
(b) 20
(c) 18
(d) 21

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.

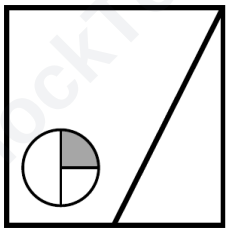
(a) (4, 12, 16)
(b) (5, 15, 20)
(c) (6, 18, 30)
(d) (9, 27, 36)

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

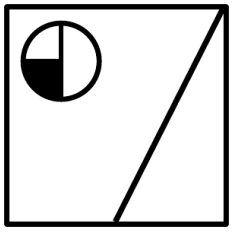
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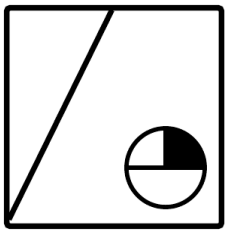
(a)



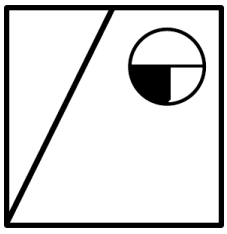
(b)



(c)

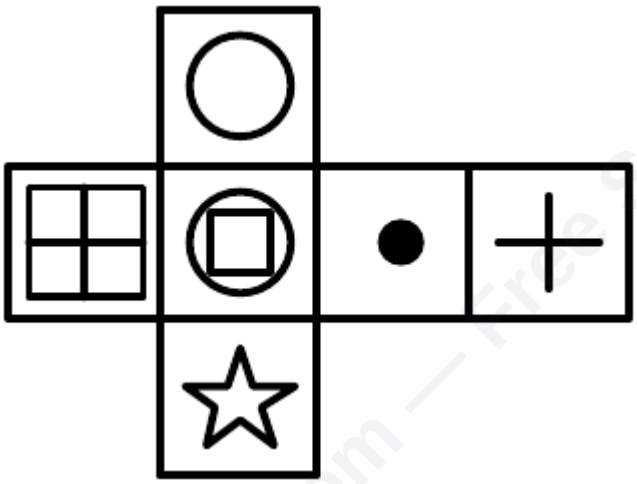


(d)

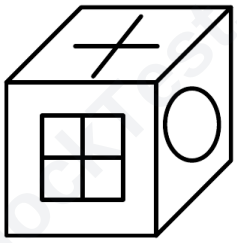


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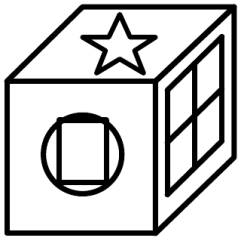
Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



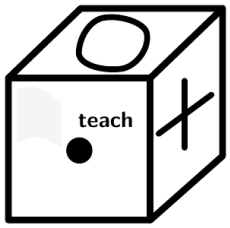
(a)



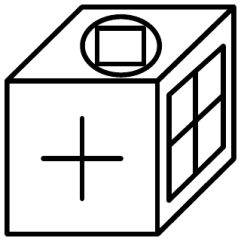
(b)



(c)



(d)



Q50. A word is represented by only 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 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 ‘H’ can be represented by 31, 24 etc and ‘Q’ can be represented by 68, 97 etc. Similarly, you have to identify the set for the word ‘RAIN’.

Matrix I					

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

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

(a) 20, 69, 31, 77
(b) 76, 14, 34, 59
(c) 20, 97, 40, 86
(d) 11, 66, 24, 96

QUANTITATIVE APTITUDE

Q51. Represent the 0.000256 in regular fraction.
(a) 4/15625
(b) 2/15625
(c) 16/15625
(d) 8/15625

Q52. Assume 57 + 59 + 109 = 0, then find the value of $57^3 + 59^3 + 109^3$.
(a) 1099701
(b) 1099601
(c) 1099801
(d) 1098701

Q53. What value of ‘p’ will satisfy the eqaution $p/\sqrt{540} = \sqrt{240}/p$?
(a) 6
(b) 10
(c) $6\sqrt{10}$
(d) $\sqrt{10}$

Q54. If $x = (\sqrt{5} + 1)/(\sqrt{5} - 1)$ and $y = (\sqrt{5} - 1)/(\sqrt{5} + 1)$, then find the value of $x^2 - y^2$.
(a) $\sqrt{5}$
(b) $2\sqrt{5}$
(c) $3\sqrt{5}$
(d) $4\sqrt{5}$

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Q55. An equilateral triangle has sides of 10 cm each. Find the ratio of in-radius to the circum-radius of the triangle.

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

Q56. In a triangle ABC, the length of in-radius and circum-radius is 2 units and 6 units respectively. Find the distance (in units) between the in-center and circumcenter.

(a) √3
(b) 2√3
(c) 3√3
(d) 4√3

Q57. The income of a person is Rs. 45000 and his expenditure is Rs. 33000. If his income is increased by 22% and expenditure in increased by 11%, then what will be the percentage increase in his savings?

(a) 11
(b) 45.75
(c) 22.15
(d) 52.25

Q58. If X : Y : Z = 3 : 4 : 5, then what will be the ratio of (X/Y) : (Y/Z) : (Z/X)?

(a) 5 : 4 : 3
(b) 30 : 40 : 27
(c) 45 : 48 : 100
(d) 20 : 15 : 12

Q59. Manish lent out Rs. 20000 in two parts. He put out first part at 6% and the second part at 8% interest. The yearly average interest comes out to be 6.4%. What are the amounts (in Rs.) that were lent at 6% and 8% respectively?

(a) 16000, 4000
(b) 12000, 8000
(c) 15000, 5000
(d) 18000, 2000

Q60. The average height of a school of 252 students is 48. If the average height of the boys is 51 and the average height of the girls is 30, then what will be the ratio of the total height of boys and the total height of girls respectively?

(a) 51 : 5
(b) 31 : 4
(c) 29 : 3
(d) 44 : 7

Q61. What is the difference (in Rs.) between compound interest (compounded annually) and simple interest for 3 years on a principal of Rs. 4000 at the rate of 30% per annum?

(a) 976
(b) 1024
(c) 1188
(d) 1276

Q62. Ramesh uses a weight of 930 gm instead of 1 kg and sells sugar on its cost price. What will be his profit percentage on selling 15 kg sugar?

(a) 9.21
(b) 7
(c) 7.53
(d) 8.54

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Q63. A watch is sold at a discount of 62.5%. If the marked price of the watch is Rs. 16320, then what is the selling price (in Rs.) of the watch?

(a) 7230
(b) 6120
(c) 5840
(d) 4820

Q64. What is the simplified value of cbrt3125 + 4cbrt25 + 3cbrt675?

(a) 18cbrt25
(b) 5cbrt25
(c) 9√125
(d) cbrt125

Q65. X boys can do a piece of work in 24 days. In how much time (in days), 2X boys will do half of the work?

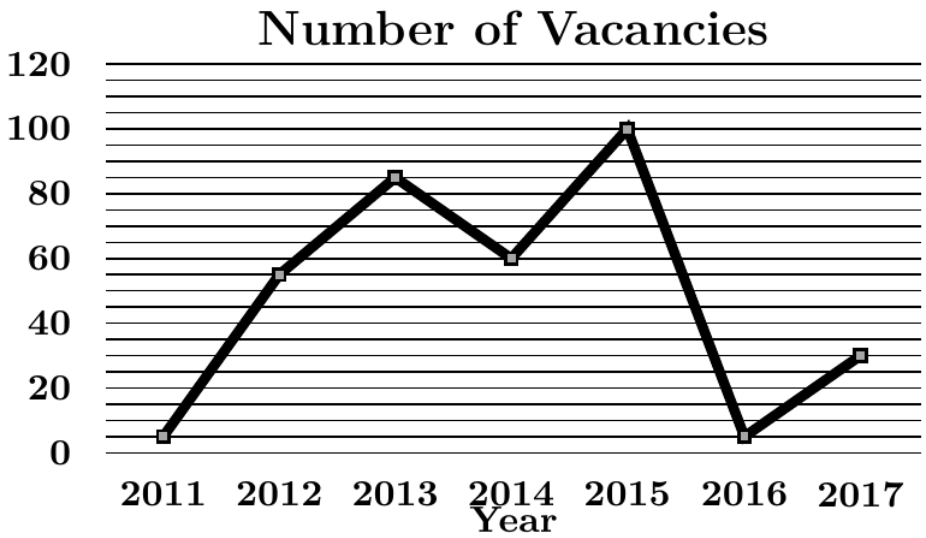
(a) 6
(b) 12
(c) 18
(d) 8

Q66. Two trains are moving in the same direction at the speed of 35 km/hr and 71 km/hr. Time taken by faster train to cross a man sitting in the slower train is 48 seconds. What will be the length (in metres) of the faster train?

(a) 540
(b) 420
(c) 480
(d) 660

Directions

Direction: The line graph shows the number of vacancies for sales officers in a certain company. Study the diagram and answer the following questions.



Q67. In which year were the number of vacancies are lesser than that of the previous year?

(a) 2015
(b) 2012
(c) 2016
(d) 2013

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

(a) 55
(b) 40
(c) 50
(d) 45

Q69. The number of vacancies in 2014 were greater than that in 2017 by _____.

(a) 116.70%
(b) 50%
(c) 200%
(d) 100%

Q70. The salary of a Sales officer in the company is Rs. 20,000, then what was the expense (in Rs. lakhs) due to salaries that had to be paid when posts were filled for the vacancies in the year 2015?

(a) 25
(b) 15
(c) 20
(d) 10

Q71. The length of one side and the diagonal of a rectangle are 7 cm and 25 cm respectively. Find its area (in cm^2).

(a) 336
(b) 208
(c) 168
(d) 416

Q72. Find the area (in cm^2) of a semi-circle of radius 21 cm.

(a) 1386
(b) 960
(c) 693
(d) 1920

Q73. The curved surface area and the slant height of a right circular cone are 4070 cm^2 and 37 cm respectively. Find its diameter (in cm).

(a) 21
(b) 70
(c) 84
(d) 63

Q74. ΔXYZ is right angled at Y. If angle Z = 30°, then find the value of (sin X - 3/√2).

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

Q75. In ΔDEF measure of angle E is 90°. If cos D = 8/17, and DE = 16 cm, then what is the length (in cm) of side DF?

(a) 30
(b) 20
(c) 26
(d) 34

GENERAL AWARENESS

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Q76. Which of the following is NOT a measure of Human Development Index?

(a) Life expectancy
(b) Sex ratio
(c) Literacy rate
(d) Gross enrolment

Q77. Which of the following is NOT correct?

(a) Tenth Plan: 2002-07
(b) Third Plan: 1966-71
(c) First Plan: 1951-56
(d) Sixth Plan: 1980-85

Q78. What percentage of the total area of lithosphere has the expansion of mountains?

(a) Around 26-27%
(b) Around 30-31%
(c) Around 33-34%
(d) Around 41-42%

Q79. Zoji La Pass connects which of the following two pairs?

(a) Srinagar and Leh
(b) Kalimpong and Lhasa
(c) Chamba and Spiti
(d) Arunachal Pradesh and Lhasa

Q80. Which of the following Rajput dynasties is not related to Agnikul?

(a) Parmar
(b) Chalukya
(c) Pratihara
(d) Chandela

Q81. The famous Saint Chaitanya of Bengal was a contemporary of which of the following?

(a) Alauddin Husain Shah
(b) Azamshah
(c) Sikandar Shah
(d) Mohammad Shah

Q82. Which musical instrument Ustad Bismillah Khan used to play?

(a) Flute
(b) Tabla
(c) Shehnai
(d) Sarod

Q83. Which of the following countries became the first to withdraw from the International Criminal Court (ICC) with effect from 27 October 2017?

(a) Burundi
(b) Syria
(c) Russia
(d) Ukraine

Q84. Name the Real Madrid footballer who has been awarded the Globe Soccer Award for 'The Best Player of the Year 2017'.

(a) Cristiano Ronaldo
(b) Gareth Bale
(c) Sergio Ramos
(d) Karim Benzema

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Q85. Myanmar is located in _____.

(a) South Asia
(b) South-east Asia
(c) East Asia
(d) South-west Asia

Q86. Isotopes have _____.

I. Similar physical quantities and different chemical properties
II. Different physical properties
III. Similar chemical properties

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

Q87. Which substance is produced when alcohol is added with petrol and used as a fuel?

(a) Only oxygen
(b) Only carbon-dioxide
(c) Only water
(d) Carbon-dioxide and water both

Q88. Decisions made by the _____ are binding on all other courts in India.

(a) Supreme Court of India
(b) High Court of States
(c) District Court
(d) No option is correct.

Q89. 74^(th) Constitutional Amendment Act gave Constitutional recognition to municipalities by adding _____.

(a) Part IX-A
(b) Part X
(c) Part XI
(d) Part XIV

Q90. Epidermal cells of which part of the plant often secretes a waxy water resistant layer on their outer surface?

(a) Aerial parts only
(b) Roots only
(c) Both aerial parts and roots
(d) Neither aerial parts nor roots

Q91. On what basis Greek thinker Aristotle classified the animals for the first time?

(a) Habitat
(b) Size
(c) Locomotion
(d) Food

Q92. In October 2017, who launched ‘Sampoorna Bima Gram (SBG) Yojana’, which aims to expand the clientele base of postal life Insurance?

(a) Manoj Sinha
(b) Jayant Sinha
(c) Arun Jaitley
(d) Suresh Prabhu

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Q93. Which country has started constructing world's biggest floating solar power plant in December 2017?

(a) China
(b) Australia
(c) South Africa
(d) Russia

Q94. In October 2017, RBI fixed the cash loading limit per month to _____ for Prepaid Payment Instruments.

(a) Rs. 10,000
(b) Rs. 50,000
(c) Rs. 75,000
(d) Rs. 1, 00,000

Q95. On 5 January 2018, Lok Sabha passed High Court and Supreme Court Judges (Salaries and Conditions of Service) Amendment Bill, 2017. The Bill seeks to revise the pension for Chief Justice of India to a maximum of how much amount per annum?

(a) Rs. 16,80,000
(b) Rs. 20,80,000
(c) Rs. 25,80,000
(d) Rs. 10,80,000

Q96. Find the potential energy gained by a body of mass 50 kg, if it is raised by 10 m. (use g = 10 m/s^2)

(a) 50
(b) 5000
(c) 2500
(d) 25

Q97. The relative density of a substance is the _____.

(a) Ratio of its density to the density of water
(b) Ratio of the density of water to its density
(c) Product of the density of water to its density
(d) Ratio of the volume of water to its volume

Q98. _____ is made up of smoke and fog.

(a) Cloud
(b) Smog
(c) Frost
(d) Haze

Q99. Which of the statements given below are correct?

A) In 2017, Dani Pedrosa raced in MotoGP for Yamaha.
B) United Arab Emirates hosted the Badminton 2017 BWF World Senior Championships.
C) Johanna Konta won the Tennis 2017 Miami Open Women's Singles.

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

Q100. In Microsoft Word, under character formatting _____ makes the character stand out by making them bold, Italic or both.

(a) Size
(b) Font color
(c) Effects
(d) Font style

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) 3

The correct answer is 3

Key Points

• The definite article 'the' is used to refer to something in particular or definite.

• When something in particular is referred to we should always use the.

• But when talking about things in general, we should not use the definite article.

• In the given sentence junk food is a very broad term and nothing particular is mentioned here.

• If the junk food being talked about was from a specific or particular place or outlet we could have used the.

• Therefore in the given sentence, the should be omitted.

• The correct sentence is: My mother told me not to eat junk food.

Additional Information

• If the junk food being talked about was from a particular place Ex: Pizza Hut

• Then we use 'the' in the sentence.

• My mother told me not to eat the junk food from Pizza Hut

• Here we are talking about a particular junk food, hence we use the definite article.

Q2. Answer: (a) 1

The correct answer is Option 1.

The error lies with plural verb.

By rule, when the subject is plural, the corresponding verb will be plural.

Leads should be changes to lead.

Early marriages not only lead to high-population and thwart the progress of our young population but also entail an enormous amount of trouble to young mothers.

Q3. Answer: (d) In

The correct answer is 'Option 4' i.e. 'In'

Key Points

• In this context, it is stated about the location of cat.

• In is used to indicate location or position within or inside something.

• For example- We went for a swim in the lake.

Therefore, the correct sentence is - There is a cat in the house.

Additional Information

• At- Used to point out specific time, Indicate a place and to indicate an activity.

• For example- She stared at me.

• For- to talk about a purpose or a reason for something.

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• For example- I'm going for some breakfast.
• Of- to show that people or things relate to other things or people.
• For example- He is a coworker of mine.

Q4. Answer: (a) Soothing

Melody = a sequence of single notes that is musically satisfying; a tune. Thus, Option 1) Soothing (calming; satisfying) is the correct answer.

Fizzing = make a buzzing or crackling sound.

Razzing = marked by or expressive of mild or good-natured teasing.

Q5. Answer: (a) Noisy

The correct answer is Noisy.

Key Points

Let's look at the meanings of the given word and the correct option.

• Obstreperous: noisy and difficult to control.
• Noisy: making or giving to making a lot of noise.

Thus from the given meanings, we find that both the words express similar meanings.

Hence the correct answer is Noisy.

Additional Information

Let's look at the meaning of the other given words.

• Quiet: making little or no noise.
• Restrained: characterized by reserve or moderation; unemotional or dispassionate.
• Silent: not making or accompanied by any sound.

Q6. Answer: (b) Overflow

Deluge = a severe flood. Thus, 2) Overflow is a synonym.

Famine = extreme scarcity of food; shortage.

Q7. Answer: (d) Easy-going

The correct answer is - Easy-going.

Key PointsThe word "Punctilious" means "showing great attention to detail or correct behaviour" whereas "Easy-going" means "relaxed and tolerant in attitude or manner". They both are opposite in nature.

Example - Sayan is a very easy-going person whereas his sister is very punctilious in manner.

So, the opposite of Punctilious is Easy-going.

Q8. Answer: (d) Arrogant

Deferential = respectful; humble. Thus, Option 4) Arrogant (unpleasantly proud) is an antonym.

Submissive - ready to conform to the authority or will of others; meekly obedient or passive.

Q9. Answer: (c) RQP

The sentence can't end with circulation to or useful in => P has to be last. Rule out 2) and 4). Option 3) RQP is the correct answer.

Endothelial cells are useful in restoring circulation to the damaged cell.

Q10. Answer: (b) He was cheated out of his money by the rascal.

The given sentence is in the past tense. Thus, passive voice will be of the form was/were + past participle of cheat = cheated. We cannot remove any information from the given sentence => rule out 3) (doesn't say whose money). Option 2) is the correct answer.

Q11. Answer: (a) The Inspector shouted to his men to stop.

Option 1) The inspector shouted to his men to stop is the only possible choice. Note that the given sentence says shouted and we can't change that to asked since they are different.

Q12. Answer: (b) Inoculate

The correct spelling is 2) Inoculate (immunize; vaccinate).

Key Points The correctly spelt word is - Inoculate.

Inoculate means "immunize (someone) against a disease by introducing infective material, microorganisms, or vaccine into the

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body".

Example - We are inoculated against Covid.

Q13. Answer: (c) Not

The correct answer is- 'Not'

Key Points

• In this context it is said that the quarrel is not only about the difficulty but also about the aim.

• Not merely is an idiom which means that one thing is true and that another thing is also true.

• For example- He was not merely a great baseball player, he was also a great person.

Therefore, the correct sentence is- That the quarrel is not merely about the difficulties, but about the aim.

Q14. Answer: (b) Other's

The correct answer is "Other's".

Key Points

• In the given sentence it is talking about to tear eyes out where it means that two or more person are involved here.

• So, we should use ('s) with other.

• An apostrophe is a small punctuation mark (') placed after a noun to show the possession.

• For example- Let's review each other's essays means my essay and your essay; i.e., two essays

Therefore, the correct sentence is- We should tear each other's eyes out.

Q15. Answer: (d) Any

We need to fill the blank such that it indicates whichever of a specified class might be chosen. (the sentence would thus mean not at all or by no way. Option 4) Any is the correct answer.

Q16. Answer: (a) Go

The correct answer is 'Go'.

Key Points

• Here, would is a modal Verb.

• Modal verbs always come directly before the main verb (except for questions).

• Modal verbs always take verb in base form (v1 form).

• For example- I thought he would be here by now.

• So according to above explanation only 'Go' is the best suitable choice.

• So, verb 'Go' is the correct answer here.

Therefore, the correct sentence is- but some of us would go mad with disgust.

Additional Information

• Gone- V3 form of 'Go'.

• Went- V2 form of 'Go'.

• Going- V1+ing form of 'Go'.

Q17. Answer: (b) Including

We are stating a fact that our army is weak even if it was containing the people.... Thus, Option 2) Including (containing as part of the whole being considered) is the correct answer.

Q18. Answer: (c) Be more easily talked about than put into practice.

Here the correct answer is Be more easily talked about than put into practice.

Key Points

• Easier said than done - Be more easily talked about than put into practice.

• For Example - Going on an economy drive is easier said than done.

• Thus, the correct answer is Option 3.

Q19. Answer: (b) An object, utterance, or act which is certain to provoke someone.

The solution is in Hindi. Read it online.

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Q20. Answer: (c) Wilt

The solution is in Hindi. Read it online.

Q21. Answer: (b) Whittle

The solution is in Hindi. Read it online.

Q22. Answer: (d) No improvement

The correct answer is 'No improvement'

Key Points

• In this context it is said about submission of report.

• We use word already in 'Present perfect tense' so it is clear that answer will be 'Has already been/Have already been'.

• The present perfect tense is used in present to indicate the action that has taken place at some specific time.

• According to sentence 'The report' is a singular noun so 'Has' will be used for it.

Therefore, the correct sentence is- The report has already been given to the board.

Additional Information

• Sentence Structure for present perfect tense- Sub+ has/have+v3+obj.

• For example- We've already had our breakfast.

Q23. Answer: (c) Hanging

The correct answer is 'Hanging'.

Key Points

• Here, the verb see is in present tense.

• The verb see and the phrase a curtain of fog denotes a continuous process indicating that an -ing form verb should be used.

• To denote a present continuous tense we should use the present participle (-ing) form of the verb.

• For example- The children are going to school.

Therefore, the correct sentence is- You see a curtain of fog hanging low, suspended over the fresh green grass.

Additional Information

• Hangs- Used in simple present tense with singular noun.

• Were hang- hanged, hanging or hung will be used with were instead of hang.

• Hanged- Used in simple past tense.

Q24. Answer: (b) ABC

A sentence can't end with we or which has. Only C can be last. Option 2) ABC is the correct answer.

The 1980s saw the introduction of the gas lighter that we commonly use now, which has almost destroyed the match industry.

Q25. Answer: (d) Patronage

The correct spelling is 4) Patronage (finance; support)

Key Points:

The correct answer will be - Patronage.

Patronage means "the support given by a patron" or "the power to control appointments to office or the right to privileges."

Example- Employees are selected on merit, not through Patronage.

Q26. Answer: (b) Lion : Den

A ‘Person’ lives in a ‘House’, similarly, ‘Lion’ lives in a ‘Den’.

Hence, correct pair is Lion : Den.

Q27. Answer: (a) 328

$14 : 200 \rightarrow 14^2 + 4 \rightarrow 196 + 4 \rightarrow 200$

Similarly,

$18 : ? \rightarrow 18^2 + 4 \rightarrow 324 + 4 \rightarrow 328$

Hence, answer is ‘328’.

Q28. Answer: (b) HCl

The logic followed here is:

R – 2 = P, P – 2= N, Q – 2 = O

Similarly,

J – 2 = H, E – 2 = C, K – 2 = I

Hence, answer is ‘HCI’.

Q29. Answer: (d) Writer

All words except ‘Writer’ are stationery goods.

Q30. Answer: (d) 23 - 26

The logic/rule/relation followed here is:

1) 11 - 16 → 11 + 5 = 16

2) 13 - 18 → 13 + 5 = 18

3) 36 - 41 → 36 + 5 = 41

4) 23 - 26 → 23 + 3 = 26

Clearly, 23 – 26 doesn’t follows the rule/logic/relation and hence is the odd one out.

Q31. Answer: (d) PKFB

1) TOJE → T – 5 = O → O – 5 = J → J – 5 = E

2) VQLG → V – 5 = Q → Q – 5 = L → L – 5 = G

3) XSNI → X – 5 = S → S – 5 = N → N – 5 = I

4) PKFB → P – 5 = K → K – 5 = F → F – 4 = B

Clearly, PKFB doesn’t follows the pattern and is the odd one out.

Q32. Answer: (b) 42531

Dictionary sequence is as follows:

4. Circular

2. Circulate

5. Circulation

3. Circumference

1. Circumstances

Hence, answer is ‘42531’.

Q33. Answer: (a) 89

The pattern followed here is:

19 + (7 × 1) → 19 + 7 = 26

26 + (7 × 2) → 26 + 14 = 40

40 + (7 × 3) → 40 + 21 = 61

61 + (7 × 4) → 61 + 28 = 89

89 + (7 × 5) → 89 + 35 = 124

Hence, answer is ‘89’.

Q34. Answer: (d) PQ

The pattern followed here is:

Hence, answer is ‘PQ’.

Q35. Answer: (a) 20

Mayank remembers that the examination is after 18th December but before 21st December. So, According to Mayank exam date is 19, 20

Suraj remembers that the examination is before 24th December but after 19th December. So, According to Suraj exam date is 20, 21, 22, 23

According to both, only 20 December date is common. So, the Exam is on 20 December.

Hence, the examination is on ‘20^(th) December’.

Q36. Answer: (c) Ribbon

1) Bastion → Tribulations → Can be formed.

2) Trust → Tribulations → Can be formed.

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3) Ribbon → Tribulations → Cannot be formed as one more ‘b’ is required.

4) Slit → Tribulations → Can be formed.

Hence, answer is ‘Ribbon’.

Q37. Answer: (d) 54

Hence, answer is ‘54’.

Q38. Answer: (a) 20

Symbol	–	•	×	÷
Meaning	•	×	÷	–

Given equation: 13 ÷ 18 – 5 + 10 × 2 =

On replacing the symbol:

13 – 18 + 5 × 10 ÷ 2 =

→ 13 – 18 + 5 × 5

→ 13 – 18 + 25

→ 38 – 18

→ 20

Hence, answer is ‘20’.

Q39. Answer: (b) • and ÷

Given equation:

15 × 4 + 10 – 10 ÷ 14 = 10

1) – and +

15 × 4 – 10 + 10 ÷ 14 = 10

→ If we’ll divide 10 by 14 so we’ll get 0.714 i.e. a decimal number; so, this option cannot be answer.

2) + and ÷

15 × 4 ÷ 10 – 10 + 14

→ 15 × 0.4 –10 + 14

→ 6 – 10 + 14

→ 20 – 10

→ 10

3) ÷ and ×

15 ÷ 4 + 10 – 10 × 14 = 10

→ If we’ll divide 15 by 4 we’ll get 3.75 i.e. a decimal number; so, this option cannot be answer.

4) × and –

15 – 4 + 10 × 10 ÷ 14 = 10

→ If we’ll divide 10 by 14 so we’ll get 0.714 i.e. a decimal number; so, this option cannot be answer.

Hence, answer is ‘+ and ÷’.

Q40. Answer: (a) 3

The rule followed here is:

18 $ 6 → (18 – 6) ÷ 2 → 12 ÷ 2 = 6

8 $ 2 → (8 – 2) ÷ 2 → 6 ÷ 2 = 3

8 $ 4 → (8 – 4) ÷ 2 → 4 ÷ 2 = 2

Similarly,

18 $ 12 → (18 – 12) ÷ 2 → 6 ÷ 2 = 3

Hence, answer is ‘3’.

Q41. Answer: (d) PPPPPPQQ

The logic followed in the alphabetical series is:

One P is added from the left end and last alphabet is eliminated from the right end.

Hence answer is ‘PPPPPPQQ’.

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Q42. Answer: (d) 8 km West

Hence, she is '8 km towards West' with reference to her starting point.

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

Conclusion I: Some boots are sneakers → False.

Conclusion II: All sneakers are boots → False.

Hence, Neither Conclusion I nor II follows.

Q44. Answer: (a) AH

Hence, 'AH' set of letters represents Reporters who are Mountain climbers.

Q45. Answer: (b) ZNB

The pattern followed here is:

Hence, next term is 'ZNB'.

Q46. Answer: (c) 18

The pattern followed here is:

3 + 1 = 3 → 4 + 2 = 6 → 6 + 3 = 9 → 9 + 4 = 13 → 13 + 5 = 18

Hence, answer is '18'.

Q47. Answer: (c) (6, 18, 30)

The pattern/logic followed here is:

1) (4, 12, 16) → 4 × 3 = 12 and 4 × 4 = 16

2) (5, 15, 20) → 5 × 3 = 15 and 45 × 4 = 20

3) (6, 18, 30) → 6 × 3 = 18 and 6 × 5 = 30

4) (9, 27, 36) → 9 × 3 = 27 and 9 × 4 = 36

Clearly (6, 18, 30) doesn't follows the pattern and hence is the odd one out

Q48. Answer: (a) [figure]

The correct mirror image of the given figure when the mirror is held on the right side is:

Hence, the answer will be option 1.

Additional Information

In the Mirror image left side and right side changed vice-versa where the top and bottom remain the same.

The reflection of an object into the water is its water image. It appears by inverting an object vertically i.e. upside down.

The water image of the figure looks like the mirror image of the figure in case the mirror is horizontally at the bottom of the figure.

The water image is just a reflection where the top and bottom parts of the images changed while the left and right sides of the image remain the same.

Q49. Answer: (d) [figure]

From the given options cube 4 cannot be formed as the square within circle face and the + symbol face are opposite to each other, while in dice they are adjecent to each other.

Hence, option 4 cannot be formed.

Q50. Answer: (b) 76, 14, 34, 59

1) 20, 69, 31, 77 → F, P, H, T.

2) 76, 14, 34, 59 → R, A, I, N.

3) 20, 97, 40, 86 → F, Q, E, V.

4) 11, 66, 24, 96 → K, Y, H, R.

Hence, 'RAIN' will be represented by '76, 14, 34, 59'.

Q51. Answer: (a) 4/15625

0.000256 = 256/1000000 = 4/15625

Additional Information

Move the decimal so there is one non- zero digit to the left of the decimal point. The number of decimal places you move will be the exponent on the 10. If the decimal is being moved to the right, the exponent will be negative.

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Q52. Answer: (a) 1099701

Calculation:

$a^3 + b^3 + c^3 = [(a + b + c) (a^2 + b^2 + c^2 - ab - bc - ac)] + 3abc$

So,

$57^3 + 59^3 + 109^3$

$=> [(57 + 59 + 109) (57^2 + 59^2 + 109^2 - 57 \times 59 - 59 \times 109 - 57 \times 109)] + 3 \times 57 \times 59 \times 109$

=> 0 + 1099701

=> 1099701.

Therefore the answer is 1099701.

Q53. Answer: (c) 6√10

$p/\sqrt{540} = \sqrt{240}/p$

$=> p^2 = \sqrt{(2 \times 2 \times 3 \times 3 \times 3 \times 5)} \times \sqrt{(2 \times 2 \times 2 \times 2 \times 3 \times 5)}$

$=> p^2 = 6\sqrt{15} \times 4\sqrt{15} = 360$

Therefore $p = 6\sqrt{10}$

Q54. Answer: (c) 3√5

Given

$x = (\sqrt{5} + 1)/(\sqrt{5} - 1)$ and $y = (\sqrt{5} - 1)/(\sqrt{5} + 1)$

Concept used

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

$(a + b)^2 = a2 + b^2 + 2ab$

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

Calculation

$x = (\sqrt{5} + 1)/(\sqrt{5} - 1)$

$=> x = [(\sqrt{5} + 1)/(\sqrt{5} - 1)] \times [(\sqrt{5} + 1)/ (\sqrt{5} + 1)]$

$=> x = (3 + \sqrt{5})/2$

And, $y = (\sqrt{5} - 1)/(\sqrt{5} + 1)$

$=> y = [(\sqrt{5} - 1)/(\sqrt{5} + 1)] \times [(\sqrt{5} - 1)/ (\sqrt{5} - 1)]$

$=> y = (3 - \sqrt{5})/2$

Therefore $x^2 - y^2 = (x + y) (x - y)$

$=> x2 - y2 = ((3 + \sqrt{5})/2 + (3 - \sqrt{5})/2) ((3 + \sqrt{5})/2 - (3 - \sqrt{5})/2)$

$=> x2 - y2 = (3) (\sqrt{5})$

$=> x2 - y2 = 3 \times \sqrt{5} = 3\sqrt{5}$

Q55. Answer: (b) 1 : 2

Given:

Side of an equilateral triangle = 10 cm

Formula used:

In-radius of equilateral triangle = $a\sqrt{3}/6$

Circum-radius of equilateral triangle = $a\sqrt{3}/3$

Calculation:

Length of the side of equilateral triangle = a = 10 cm

In-radius of equilateral triangle = $a\sqrt{3}/6 = 10\sqrt{3}/6$

Circum-radius of equilateral triangle = $a\sqrt{3}/3 = 10\sqrt{3}/3$

Ratio of the in-radius to the circum-radius of the triangle

$=> 10\sqrt{3}/6 : 10\sqrt{3}/3 = 1 : 2$

Therefore The correct answer is 1 : 2.

Q56. Answer: (b) 2√3

Given:

In-radius = 2 units

Circum-radius = 6 units

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Formula used:
Distance between incenter and circumcenter = √(R2 - 2Rr)
Here R is Circum-radius and r is In-radius
Calculation:
Distance between incenter and circumcenter = √(R² - 2Rr)
Circum-radius = R = 6 units
In-radius = r = 2 units
d = √(6² - 6 × 4) = √(36 - 24) = √12
d = 2√3 units
Therefore Distance (in units) between the in-center and circumcenter is 2√3 units

Q57. Answer: (d) 52.25

Given:
The income of a person is Rs. 45000.
His expenditure is Rs. 33000.
His income is increased by 22% and expenditure in increased by 11%.
Formula used:
Percentage = (value/total value) × 100
Calculation:
Initial income = Rs. 45000
Initial Expenditure = Rs. 33000
Savings = Rs. 45000 - Rs. 33000
=> Rs. 12000
New Income = 45000 + 22% of 45000
=> Rs. 54900
New Expenditure = 33000 + 11% of 33000
=> Rs. 36630
New savings = 18270
Percentage increase in savings = [(18270 - 12000)/12000] × 100
=> 52.25%
Therefore The percentage increase in his savings is 52.25%

Q58. Answer: (c) 45 : 48 : 100

Given:
X : Y : Z = 3 : 4 : 5
Calculation:
X/Y = 3/4; Y/Z = 4/5 and Z/X = 5/3
L.C.M of 4, 5 and 3 is 60
So, (X/Y) : (Y/Z) : (Z/X) = 45 : 48 : 100
Therefore The correct answer is 45 : 48 : 100.

Q59. Answer: (a) 16000, 4000

Given:
Total sum = Rs.20,000
First part rate = 6%; Second part rate = 8%
Calculation:
Let the first part be lent at 6% be x and the second part be lent at 8% be (20000 - x)
Average interest received on total sum is 6.4%
Simple interest = (P × R × T)/100
=> (20000 × 6.4 × 1)/100 = Rs.1280
Total interest received = 1280
So,
=> 1280 = (x × 6 × 1)/100 + [(20000 - x) × 8 × 1]/100

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=> 128000 = 6x - 8x + 160000
First part, x = Rs16000
Second part = 20000 - x = Rs.4000
Therefore The correct option is 1.
Shortcut TrickCalculation:
Now,
Ratio of sum = 1.6 : 0.4 = 4 : 1
(4 + 1) = 5 units = Rs.20,000
1 unit = Rs.4000
4 units = Rs.16,000
Therefore The correct option is 1.

Q60. Answer: (a) 51 : 5

Given:
The average height of 252 students = 48 units
The average height of the boys = 51
The average height of the girls = 30
Formula used:
Sum of N number = Average of N number × N
Calculation:
Total heights of 252 students = Average × Number of students
=> 252 × 48
Let the number of boys be y and the number of girls be (252 - y)
Total heights of boys = Average height of boys × Number of boys
=> 51 × y
The total height of girls = Average height of girls × Number of girls
=> 30 × (252 - y)
Now,
According to the question:
=> 51 × y + 30 × (252 - y) = 252 × 48
=> 51y - 30y = (252 × 48) - (252 × 30)
=> 21y = 252 × 18
=> y = 216
Total height of boys = 216 × 51 = 11016
Number of girls = (252 - 216) = 36
The total height of girls = 36 × 30 = 1080
Required ratio = 51 : 5
Therefore The correct answer is 51 : 5.
Shortcut TrickCalculation:
Now,
=> (18 + 3) = 21 units = 252
1 units = 12
So, Boys (18 units) = 18 × 12 = 216
Girls (3 units) = 12 × 3 = 36
Sum of heights of all girls = 36 × 30
Sum of heights of all boys = 216 × 51
So the required ratio = 216 × 51 : 36 × 30 = 51 : 5
Therefore The correct answer is 51 : 5.

Q61. Answer: (c) 1188

Given:
Principal = Rs.4000;

Rate = 30%; Time = 3 years
Formula used:
Simple interest = (P × R × T)/100
Compound Interest = P $[1 + R/100]^n$ - P
where P is the principal, R is the rate of interest and T is the time- period
Calculation:
Simple interest = (P × R × T)/100
S.I = (4000 × 30 × 3)/100 = Rs. 3600
Compound Interest = P [1 + R/100]n - P
C.I = 4000 $[1 + 30/100]^3$- 4000 = 8788 - 4000 = Rs. 4788
Difference of (C.I - S.I) = 4788 - 3600 = Rs.1188
Therefore The correct answer is Rs.1188.
Shortcut TrickFormula used:
The difference between C.I. and S.I. for 3 years = 3 × P × $(R/100)^2$+ P × $(R/100)^3$
Calculation:
Difference of (C.I - S.I) for 3 years = 3 × P × (R/100)2 + P × (R/100)3
=> 3 × 4000 × (30/100)2 + 4000 × (30/100)3
=> 4000 × {3 × (9/100) + (27/1000)}
=> 4000 × (0.27 + 0.027)
=> 4000 × 0.297 = Rs.1,188
Therefore The correct answer is Rs.1,188.

Q62. Answer: (c) 7.53

Given:
Faulty weight = 930 gms
True weight = 1000 gms
Formula use:
Gain % = Error/(True Value - Error)×100
Calculation:
We know,
Gain % = Error/(True Value - Error)×100
Error = 1000 - 930 = 70 gms
Gain % = 70/(1000 - 70)×100
Gain % = 70/930×100
Gain % = 7.53 %
Hence, the correct answer is 7.53 %.
Confusion PointsError on selling 15 kg sugar = 15(1000 - 930) = 15 × 70
True weight on selling 15 kg sugar = 15 ×1000 - 15 × 70
Hence, true weight on selling 15 kg sugar = 15 × 930
Therfore
Gain % = [(15 × 70)/(15 × 930)] × 100 = 7.53 %

Q63. Answer: (b) 6120

Given:
Marked price of watch = 16320
Discount = 62.5%
Calculation:
The selling price of the watch = Marked price - Discount
=> 16320 - 62.5% of 16320 = Rs.6120
Therefore The selling price of the article is Rs.6120.
Alternate MethodCalculation:
Selling price = Marked price × (100 - discount%)/100

=> 16320 × (100 - 62.5)/100
=> 16320 × 37.5/100 = Rs.6120
Therefore The selling price of the article is Rs.6120.

Q64. Answer: (a) 18cbrt25

Calculation:
cbrt3125 + 4cbrt25 + 3cbrt675
=> cbrt (5 × 5 × 5 × 25) + 4cbrt25 + 3cbrt (3 × 3 × 3 × 25)
=> 5cbrt25 + 4cbrt25 + 9cbrt25
=> 18cbrt25
Therefore The correct answer is 18cbrt25.

Q65. Answer: (a) 6

Calculation:
Work done by X boys in 1 day = 1/24
Work done by 2X boys in 1 day = 2/24 = 1/12
Total Work will be completed by 2X boys in 12 days
Therefore, half the work will be completed by 2X boys in 6 days.
Therefore The correct answer is 6 days.

Q66. Answer: (c) 480

Given:
The speed of the 1st train = 35 km/h
The speed of the 2nd train = 71 km/h
Formula used:
Distance = relative speed × time
Calculation:
Distance = relative speed × time
=> (71 - 35) × (5/18) × 48
=> 36 × (5/18) × 48
=> 10 × 48 = 480 m
Therefore The correct answer is 480 m.

Q67. Answer: (c) 2016

From the graph, it is clear that in year 2016, the number of vacancies are lesser than that of the previous year.

Q68. Answer: (d) 45

Number of vacancies in 2012 = 55
Number of vacancies in 2015 = 100
Therefore, difference = 100 - 55 = 45

Q69. Answer: (d) 100%

Number of vacancies in 2014 = 60
Number of vacancies in 2017 = 30
Therefore required percentage = (60 - 30)/30 × 100 = 100%

Q70. Answer: (c) 20

Salary of sales officer = Rs. 20000
Number of vacancies in 2015 = 100
Therefore Total expense of salaries = 20,000 × 100 = 20 lakhs

Q71. Answer: (c) 168

Given:
The Side of the rectangle (BC) = 7 cm
Diagonal of rectangle (BD) = 25 cm

Formula used:
Area of rectangle = Length × breadth
Calculation:
By Pythagoras theorem:
$BC^2 + CD^2 = BD^2$
$\Rightarrow BC^2 + 7^2 = 25^2$
$\Rightarrow BC^2 = 625 - 49 = 576$
$\Rightarrow BC = 24$ cm
Area of rectangle = Length × Breadth = $7 \times 24 = 168$ cm²
Therefore The correct answer is 168 cm2.

Q72. Answer: (c) 693

Given:
Radius of semi-circle = 21 cm
Formula used:
Area of semicircle = 1/2 × πr2
Calculation:
Area of semicircle = $1/2 \times \pi r^2$
Area of semicircle = $1/2 \times (22/7) \times 21 \times 21 = 693$ cm²
Therefore The correct answer is 693 cm2.

Q73. Answer: (b) 70

Given:
The curved surface area = 4070 cm²
Slant height = 37 cm
Formula used:
The curved surface area of cone = π × r × l
where r is the radius and l is the slant height.
Calculation:
The curved surface area of cone = 4070 cm²
$\Rightarrow (22/7) \times r \times 37 = 4070$
Radius of the cone = 35 cm
Therefore, diameter = 2r = 70 cm
Therefore The correct answer is 70 cm.

Q74. Answer: (a) (√6 - 6)/2√2

Given:
angle Y = 90°; angle Z = 30°
Formula used:
Sin 60° = √3/2
Calculation:
angle Z = 30° and angle Y = 90°.
In Δ XYZ
$\Rightarrow$ angle X + angle Y + angle Z = 180°
$\Rightarrow$ angle X = 180° - (90°+ 30°)
$\Rightarrow$ angle X = 60°
Putting the value in the below equation:
Sin X - 3/√2
$\Rightarrow$ √3/2 - 3/√2
$\Rightarrow$ (√6 - 6)/2√2
Therefore The correct answer is (√6 - 6)/2√2.

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Q75. Answer: (d) 34

Given:

angle B = 90°

Cos D = 8/17; DE = 16 cm

Calculation:

Cos D = DE/DF = 8/17

=> 16/DF = 8/17 (As DE = 16 cm)

=> DF = 17 × 2 = 34 cm

Therefore Length of side DF = 34 cm

Q76. Answer: (b) Sex ratio

The correct answer is option 2 i.e. Sex Ratio

• Sex ratio is NOT a measure of the Human Development Index.

• The Human Development Index (HDI) is a composite statistic of life expectancy, education, and per capita income indicators.

• It is used to rank countries into four tiers of human development.

• A country scores higher HDI when the lifespan is higher, the education level is higher, and the GDP per capita is higher.

• The HDI was developed by Pakistani economist Mahbubul Haq.

Additional Information

• According to the Human Development Report 2021-22, India's rank on the Human Development Index (HDI) has slipped from 130 in 2020 to 132 in 2022, in line with a global fall in HDI scores in the wake of the Covid-19 pandemic.

• Human Development Reports (HDRs) have been released since 1990 and have explored different themes through the human development approach.

• It is published by the Human Development Report Office for the United Nations Development Programme (UNDP).

• European countries were among the best overall performers, with as many as 8 in the top 10 of the list.

• Switzerland, Norway, Iceland, Denmark, Sweden, Ireland, Germany, and the Netherlands.

Q77. Answer: (b) Third Plan: 1966-71

Third Plan: 1966-71 is NOT correct.

• Third Five Year Plan was from 1961 to 1966.

• Five Year Plan - Five-Year Plans are integrated and centralized national economic programs.

• 12th Five Year Plan (2012–17) was India's last Five Year Plan.

Q78. Answer: (a) Around 26-27%

Around 26-27% of the total area of lithosphere has the expansion of mountains.

• Lithosphere - It is the rigid outer part of the earth, consisting of the crust and upper mantle.

• The lithosphere is divided into tectonic plates.

• The topmost part of the lithosphere that chemically reacts with the atmosphere, hydrosphere and biosphere through the soil forming process is called the pedosphere.

Q79. Answer: (a) Srinagar and Leh

The correct answer is Srinagar and Leh.

Key Points

• Zoji La is a high mountain pass located in the Kargil district of Ladakh.

• The pass connects Leh and Srinagar and provides an important link between the Union Territories of Ladakh and Jammu & Kashmir.

• Zojila pass remains closed during winters due to heavy snowfall, cutting off Ladakh region from Kashmir.

• It runs at an elevation of approximately 3,528 meters.

• It is the second-highest pass after Fotu La on the Srinagar-Leh National Highway.

Important Passes in J&K and Ladakh

Additional Information

• Zojila Tunnel:

• It is set to be Asia's longest bi-directional tunnel.

• It will connect Srinagar, Dras, Kargil, and Leh via a tunnel through the famous Zojila Pass.

• It will be an all-weather tunnel and will be 14.15 km long and ensure road connectivity even during winters.

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• It will make the travel on the 434-km Srinagar-Kargil-Leh Section of NH-1 free from avalanches, enhance safety and reduce the travel time from more than 3 hours to just 15 minutes.

Q80. Answer: (d) Chandela

The correct answer is option 4 i.e. Chandela

• Chandela Dynasty is not related to Agnikul.

• The four Rajput clans from Agnikunda are Chalukyas, Chauhans, Pratiharas, and Parmaras.

• In Central India, the Chandelas of Jejakabhukti were a royal dynasty.

• They ruled the Bundelkhand region (which was then known as Jejakabhuti) from the 9th to the 13th centuries.

Q81. Answer: (a) Alauddin Husain Shah

The correct answer is option 1 i.e. Alauddin Husain Shah

• The famous Saint Chaitanya of Bengal was a contemporary of Alauddin Husain Shah.

• Chaitanya Mahaprabhu (1486 - 1534) was a Vedic spiritual leader.

• He founded Gaudiya Vaishnavism.

• Chaitanya was the advocator for the Vaishnava school of Bhakti yoga.

• He is revered as Krishna.

• He popularized the chanting of the Hare Krishna mantra.

• He composed the Siksastakam (eight devotional prayers) in Sanskrit.

Q82. Answer: (c) Shehnai

The correct answer is Shehnai.

• Ustad Bismillah Khan used to play Shehnai.

• Ustad Bismillah Khan (1916 – 2006) (Real name is Qamaruddin Khan), was an Indian musician credited with popularizing the Shehnai.

• Shehnai is a musical instrument that is similar to the oboe (common in India, Pakistan, and Bangladesh.)

• He was honoured with India's highest civilian honour, the Bharat Ratna in 2001 thus becoming the third classical musician after M. S. Subbulakshmi and Ravi Shankar to be awarded this distinction.

• On his 102nd birth anniversary, he was honoured by Google with a Google doodle.

Q83. Answer: (a) Burundi

Burundi became the first country to withdraw from the International Criminal Court (ICC) with effect from 27 October 2017.

• The government of Burundi is accused of committing crimes against humanity.

• The ICC has the jurisdiction to bring an action against individuals for the international crimes, war crimes etc.

• The ICC began its functioning on 1 July 2002.

• The International Criminal Court (ICC) is an intergovernmental organization.

• Headquarter - The Haguein the Netherlands.

• The four principal organs of the ICC are the Presidency, the Judicial Divisions, the Office of the Prosecutor, and the Registry.

Q84. Answer: (a) Cristiano Ronaldo

Cristiano Ronaldo has been awarded the Globe Soccer Award for 'The Best Player of the Year 2017'.

• This award ceremony took place in Dubai.

• Cristiano Ronaldo dos Santos Aveiro is a Portuguese professional footballer.

• He plays as a forward for Spanish club Real Madrid and the Portugal national team.

• Ronaldo has received five Ballon d'Or awards.

Q85. Answer: (b) South-east Asia

The correct answer is option 2 i.e. South-east Asia.

Key Points

• Myanmar is located in South-east Asia.

• Naypyitaw is the capital of Myanmar.

• Myanmar is also known as Burma.

• It is bordered by India and Bangladesh to its west, China to its north and northeast and Thailand and Laos to its east.

• Hkakabo Razi is a border tripoint between India, China, and Myanmar.

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Q86. Answer: (c) Only II and III

Isotopes have different physical properties and similar chemical properties.

• They are the atoms of the same element having the same numbers of protons but different numbers of neutrons.

• They have same chemical properties due to the same electronic configuration but different physical properties.

Q87. Answer: (d) Carbon-dioxide and water both

The correct answer is option 4 i.e. Carbon-dioxide and water both

• Carbon-dioxide and water both are produced when alcohol is added to petrol and used as a fuel.

• For example, Ethanol is used as an additive in gasoline (Petrol) by some countries as its impact on the environment is much lower than gasoline or diesel.

• When ethanol combusts, it releases, mainly carbon dioxide and water.

• $C2H5OH + 3 O2 \rightarrow 2 CO2 + 3 H2O + heat$

Q88. Answer: (a) Supreme Court of India

The correct answer is option 1 i.e. Supreme Court of India

• Decisions made by the Supreme Court of India are binding on all other courts in India.

• The Supreme Court of India is the highest judicial forum under India's constitution.

• It has the power of constitutional review.

• It consists of the Chief Justice of India and 30 other judges and the maximum possible strength is 34.

• It has extensive powers in the form of original, appellate, and advisory jurisdictions.

• It takes up appeals mainly against verdicts of the high courts of various states of the Union and other courts and tribunals.

• Justice Sharad Arvind Bobde is the 47th Chief Justice of India. He was sworn in on 18 November 2019.

Q89. Answer: (a) Part IX-A

The correct answer is option 1 i.e. Part IX-A

• 74th Constitutional Amendment Act gave Constitutional recognition to municipalities by adding Part IX-A.

• The 74th Constitutional Amendment Act came into effect on June 1, 1993.

• It is linked to Urban Local Bodies (also known as Nagarpalikas).

• It had been enacted to grant constitutional recognition to the Urban Local Bodies as the third tier of the Government in urban areas.

• As of 2023, there have been 105 amendments of the Constitution of India since it was first enacted in 1950.

• Latest amendments:

• 101^(st)- Introduced the Goods and Services Tax (2016)

• 102^(nd) - Constitutional status to National Commission for Backward Classes (2018)

• 103^(rd)- A maximum of 10% Reservation for Economically Weaker Sections (EWSs) (2019)

• 104^(th)- To extend the reservation of seats for SCs and STs in the Lok Sabha and states assemblies (2020)

• 105 th - restored the power of state governments to prepare lists of socially and educationally backward classes (SEBCs).

Q90. Answer: (a) Aerial parts only

Epidermal cells of Aerial parts of the plants often secrete a waxy water resistant layer on their outer surface.

• The outermost layer covering all plant organs is called the epidermis.

• It originates from the outermost layer of the apical meristem.

• It is in direct contact with the environment and so it modifies itself to adapt to the natural surroundings.

• It thus protects the inner tissues from any natural calamities like high temperature, mechanical injury, external infection etc.

Q91. Answer: (a) Habitat

Greek thinker Aristotle classified animals on the basis of Habitat.

EXPLANATION:

• Aristotle classified animals according to whether they lived in water, on land, or in the air.

• Aristotle (384-322 BC) was an ancient Greek philosopher and scientist.

• He was born in the city of Stagira, Chalkidiki, in the north of Classical Greece.

• Along with Plato, he is considered the "Father of Western Philosophy".

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Q92. Answer: (a) Manoj Sinha

In October 2017, Manoj Sinha launched 'Sampoorna Bima Gram (SBG) Yojana', which aims to expand the clientele base of postal life Insurance.

• Manoj Sinha is The Minister for Communications.

• This scheme aims to provide affordable life insurance services to people living in rural areas of the country.

• Under this, at least one village (having a minimum of 100 households) will be identified in each of the revenue districts of the country, wherein attempts will be made to cover all households of that identified village with a minimum of one RPLI (Rural Postal Life Insurance) policy each.

Q93. Answer: (a) China

China has started constructing world's biggest floating solar power plant in December 2017.

• This floating photovoltaic power station has been set up in eastern China's Anhui province at a cost of 1 billion Yuan.

• The project features panels fixed to floats on the surface of a lake.

• The power station has an installed capacity of 150 MW (megawatt).

• Compared with traditional solar power plants on land, the floating station will help to reduce water evaporation, save land resources, and prevent algae from growing.

Q94. Answer: (b) Rs. 50,000

In October 2017, RBI fixed the cash loading limit per month to Rs 50,000 for Prepaid Payment Instruments.

• The Reserve Bank of India (RBI) is India's central banking institution.

• It controls the monetary policy of the Indian rupee.

• It started its operations on 1 April 1935 in agreement with the Reserve Bank of India Act, 1934.

Q95. Answer: (a) Rs. 16,80,000

On 5 January 2018, Lok Sabha passed High Court and Supreme Court Judges (Salaries and Conditions of Service) Amendment Bill, 2017. The Bill seeks to revise the pension for Chief Justice of India to a maximum of Rs 16, 80,000 per annum.

• It was introduced in Lok Sabha by the Minister for Law and Justice, Mr. Ravi Shankar Prasad on December 21, 2017.

• The Bill seeks to amend:

1. The High Court Judges (Salaries and Conditions of Service) Act, 1954.

2. The Supreme Court Judges (Salaries and Conditions of Service) Act, 1958.

3. These Acts regulate the salaries and conditions of service of the judges of the High Courts and the Supreme Court.

Q96. Answer: (b) 5000

The correct answer is 5000

EXPLANATION:

The potential energy gained by a body of mass 50 kg, if it is raised by 10m is 5000 Joules.

Potential energy = mass × acceleration due to gravity(g) × height covered

P.E. = 50 × 10 × 10

= 5000 Joules

Potential energy is the energy possessed by an object because of its position relative to other objects.

Q97. Answer: (a) Ratio of its density to the density of water

The relative density of a substance is the Ratio of its density to the density of water.

• A substance with a relative density less than 1 will float in water. For example, an ice cube, with a relative density of about 0.91, will float. A substance with a relative density greater than 1 will sink.

• If a substance's relative density is less than one then it is less dense than the reference; if greater than 1 then it is denser than the reference(here water)

• If the relative density is exactly 1 then the densities are equal; that is, equal volumes of the two substances have the same mass.

Q98. Answer: (b) Smog

Smog is made up of smoke and fog.

Key Points

• It is a type of air pollutant.

• It is derived from vehicular emissions from internal combustion engines and industrial fumes that react in the atmosphere with sunlight to form secondary pollutants.

• In certain cities, such as Delhi, smog severity is often increased by stubble burning in neighboring agricultural areas.
• It is highly toxic to humans and can cause severe sickness, and shortened life or death.

Q99. Answer: (b) Only C

Johanna Konta won the Tennis 2017 Miami Open Women's Singles.
• She is from Great Britain.
• She defeated Caroline Wozniacki from Denmark in the final.
• Her title was the biggest by a British woman since Virginia Wade won Wimbledon in 1977.

Q100. Answer: (d) Font style

In Microsoft Word, under character formatting Font style makes the character stand out by making them bold, Italic or both.
• Character formatting controls the appearance of the individual letters in a newsletter.
• This can make your document more interesting.
• Different styles of text such as bold or italics can make text stand out.
• Underlining can be used for headings.

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