SSC CHSL Previous Paper 8 (Held On: 6 March 2018 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2018 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The first and decisive step (1)/ in the expansion of Europe overseas (2)/ was the conquest of Atlantic ocean (3)/ No error (4)

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

Q2. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The word ‘Macabre’ had been gained its significance from its (1)/use in French as la danse macabre for the allegorical (2)/representation of the universal power of death. (3)/No error (4)

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

Q3. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) Daclination
(b) Declineation
(c) Declination
(d) Daclineation

Q4. 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.

Many a bird found

A-secure in the branches

B-safety in the trees and

C-built their nests, feeling

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

Q5. 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".

It is nothing less than magic which (transformed) tiny teeny seeds into fruits of life.

(a) Transform

(b) Transforms
(c) Transforming
(d) No improvement

Q6. 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 doctor removed the eye patch and asked him how he (were feeling).

(a) Was felt
(b) Has feeling
(c) Was feeling
(d) No improvement

Q7. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

The return of someone to his own country

(a) Repatriation
(b) Migrate
(c) Emigrate
(d) Immigrate

Q8. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

An attractively tall, graceful, and dignified woman

(a) Terse
(b) Pithy
(c) Sententious
(d) Statuesque

Q9. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

The wheels have come off.

(a) To use something so much that it wears out.
(b) Things start to fail or go wrong, especially after a period of success.
(c) To do a shoddy job which is destined to fail.
(d) Make an excuse to avoid doing a task.

Q10. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

At the top of your lungs

(a) Be a habitual smoker.
(b) Be breathless after an exhausting physical task.
(c) Feel suffocated in a very crowded place.
(d) Extremely loudly.

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.

The most powerful and the most perfect ____ of thought and feeling through the medium of oral language must be traced to the mastery of words. __ is better suited to lead speakers and readers __ English into an easy control of this language than the command of the phrase that perfectly expresses the thought. Every speaker's aim is to be heard and ___. A clear, crisp _____ holds an audience as by the spell of some irresistible power.

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Q11. crisp _____ holds an audience as.

(a) Articulate
(b) Articulates
(c) Articulations
(d) Articulation

Q12. aim is to be heard and _____. A clear

(a) Understand
(b) Understandable
(c) Understood
(d) Understandably

Q13. And readers _____ English into an easy.

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

Q14. mastery of words. _____ is better suited to lead.

(a) No
(b) Not
(c) None
(d) Nothing

Q15. The most perfect _____ of thought and feeling.

(a) Express
(b) Expressive
(c) Expressings
(d) Expression

Q16. 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) Glamerous
(b) Glamrous
(c) Glamorous
(d) Gleamorous

Q17. 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.

Raj said, “I am happy to be here this evening.”

(a) Raj said that he was happy to be there that evening.
(b) Raj was happy to be there this evening.
(c) Raj said he was happy to be there this evening.
(d) Raj says he is happy to be there.

Q18. 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 officer cuts down the tree.

(a) The tree is cut down by the officer.
(b) The tree got cut down by the officer.
(c) The tree is cut by the officer.
(d) The tree cut by the officer.

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Q19. Rearrange the parts of the sentence in correct order.

Attempts in India

P: honesty and more by blind faith

Q: by the government to validate traditional

R: medicine are driven less by

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

Q20. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Defile

(a) Pollute
(b) Abuse
(c) Shame
(d) Honour

Q21. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Myopic

(a) Blind
(b) Biased
(c) Careless
(d) Farsighted

Q22. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Surly

(a) Sweet
(b) Unfriendly
(c) Clear
(d) Pleasant

Q23. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Naive

(a) Sarcastic
(b) Artful
(c) Skeptical
(d) Ingenuous

Q24. 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.

Success is achieved twice, once in the mind and the second time in the _____ world.

(a) Real
(b) Virtual
(c) Fantasy
(d) Artificial

Q25. 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.

She was chatting _____ the cars.

(a) Of

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(b) About
(c) With
(d) On

GENERAL INTELLIGENCE

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

Start : End :: ? : ?

(a) Hot : Water
(b) Love : Care
(c) Green : Go
(d) Up : Down

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

31 : 42 :: ? : ?

(a) 53 : 64
(b) 47 : 59
(c) 61 : 73
(d) 44 : 34

Q28. In the following question, select the related group of letters from the given alternatives.

FUT : JYX :: BUG : ?

(a) AYG
(b) FYK
(c) LCK
(d) FAM

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

(a) Ocean
(b) Sea
(c) Desert
(d) River

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

(a) 101 – 105
(b) 103 – 107
(c) 102 – 106
(d) 104 – 106

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

(a) KQW
(b) RXD
(c) BHN
(d) AGL

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

1. Toast
2. Torpedo
3. Tounge
4. Trickle
5. Trick

(a) Trick

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(b) Trickle
(c) Tounge
(d) Torpedo

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

13, 17, 19, 23, 25, 29, ?

(a) 33
(b) 31
(c) 35
(d) 37

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

UY, SV, QS, OP, ?

(a) NM
(b) ML
(c) MM
(d) KL

Q35. L, M, N, O and P are sitting in a line facing east. L and M are sitting together. N is sitting at the north end and O is sitting at the south end. P is the neighbour of M and N. Who is third from the north end?

(a) L
(b) O
(c) M
(d) P

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

Corporate

(a) Poor
(b) Rate
(c) Cat
(d) Prove

Q37. In a certain code language, “PRICE” is written as “GEKTR”. How is “VALUE” written in that code language?

(a) FWNCX
(b) FNWDY
(c) DWNCY
(d) GWNCX

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

9 - 18 + 35 × 10 ÷ 30 = ?

(a) 44
(b) 42
(c) 40
(d) 41

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

20 ÷ 14 + 5 × 20 - 2 = 56

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

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Q40. If 16α1 = 8, 14α6 = 42 and 12α5 = 30, then find the value of 2α6 = ?

(a) 6
(b) 18
(c) 4
(d) 10

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

XYZXYZxYZ, XYZXYzXYZ, XYZXyZXYZ, XYZxYZXYZ, XYzXYZXYZ, _____.

(a) xYZXYZXYZ
(b) XYZXYZxYZ
(c) XyZXYZXYZ
(d) XYZXYzXYZ

Q42. An insect walks 15 cm East, then it turns to its right and walks for another 20 cm. Then it turns right and walks 4 cm and then it turns North and walks 20 cm, then finally it turns to its left and walks 2 cm. Where is the insect now with respect to its starting point.

(a) 9 cm East
(b) 21 cm East
(c) 9 cm West
(d) 21 cm 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: Some games are sports

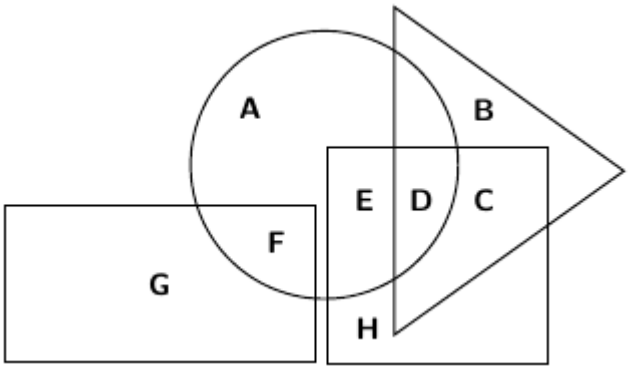
Statement II: No exercise are games

Conclusion I: All sports are exercise

Conclusion II: Some exercise are sports

(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 Journalists, circle represents Art critics, triangle represents Campers and square represents Mothers. Which set of letters represents Mothers who are Campers?



(a) DC
(b) BDCH
(c) EDC
(d) HEB

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

ENG, GQI, ITK, KWM, ?

(a) NAP
(b) MZO
(c) MAO
(d) NZP

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

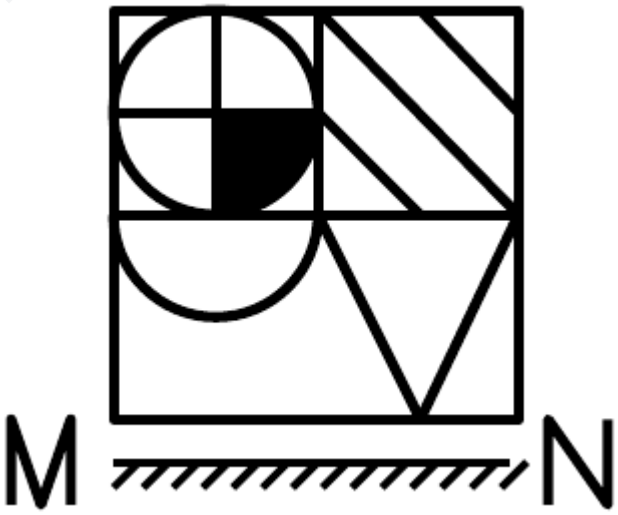
58, 61, 65, 70, ?, 83

(a) 77
(b) 76
(c) 78
(d) 75

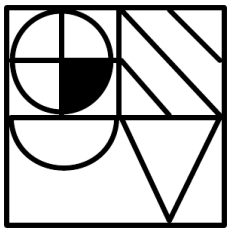
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (7, 14, 21)
(b) (5, 12, 19)
(c) (3, 10, 17)
(d) (9, 16, 35)

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

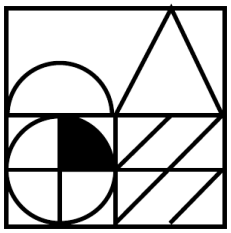


(a)

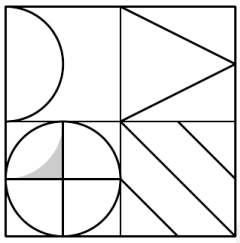


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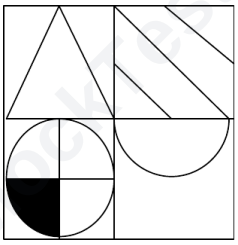
(b)



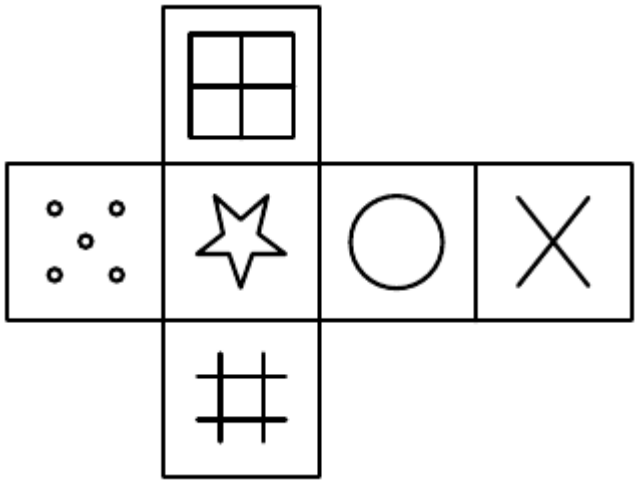
(c)



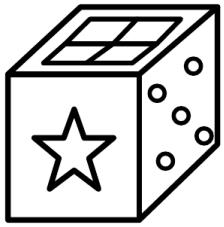
(d)



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

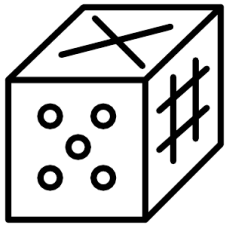


(a)

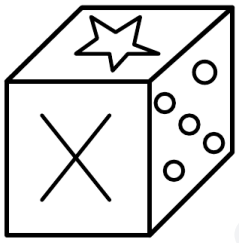


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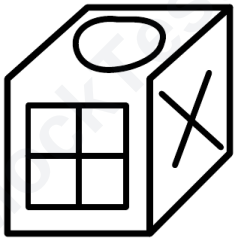
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in 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 'F' can be represented by 41, 24 etc and 'V' can be represented by 57, 78 etc. Similarly, you have to identify the set for the word 'MOCK'.

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

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

(a) 20, 86, 11, 65
(b) 13, 67, 22, 20
(c) 12, 89, 12, 69

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(d) 20, 59, 20, 76

QUANTITATIVE APTITUDE

Q51. Find the square root of 1485961.

(a) 1213
(b) 1219
(c) 1229
(d) 1239

Q52. If $a^2 + b^2 = 80$ and $ab = 32$, then calculate the value of $(a - b)/(a + b)$.

(a) 0.337
(b) 0.339
(c) 0.333
(d) 0.335

Q53. What is the value of (7776)^(2/5) ?

(a) 16
(b) 36
(c) 64
(d) 21

Q54. What is the value of $x^3 - 1/(x^3) + 8$ when $8x - 8/x - 16 = 0$?

(a) 6
(b) 8
(c) 16
(d) 22

Q55. The triangle in which the orthocenter, circumcentre, Incenter and the centroid coincide each other at a point is known as _____.

(a) isosceles triangle
(b) equilateral triangle
(c) right angled triangle
(d) obtuse angled triangle

Q56. If the radius of a circle is decreased by 25% of its original value, calculate the percentage decrease in the area of the circle.

(a) 25%
(b) 43.75%
(c) 50%
(d) 93.75%

Q57. On decreasing the price of a fan by 40%, its sales increases by 50%. What will be the percentage increase or decrease in its revenue?

(a) 15% increase
(b) 15% decrease
(c) 10% decrease
(d) 10% increase

Q58. A sum of Rs. 2489 is divided among A, B and C such that if Rs. 12, Rs. 12 and Rs. 5 be diminish from the shares of A, B and C respectively, then their shares will be in the ratio of 5 : 3 : 4. What is the new share (in Rs.) of C?

(a) 750
(b) 1060
(c) 1475
(d) 820

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Q59. The milk and water in two vessels are in the ratio of 3 : 1 and 7 : 11 respectively. In what ratio should the liquid in both the vessels be mixed to obtain a new mixture containing half milk and half water?

(a) 5 : 7
(b) 4 : 9
(c) 1 : 1
(d) 4 : 7

Q60. Average of 14 numbers is 32. If the average of last 5 numbers is 26, then what is the average of the remaining numbers?

(a) 35.33
(b) 41.33
(c) 27.5
(d) 44.5

Q61. A person borrows some money for 8 years at a rate of simple interest. If the ratio of principal and total interest is 5 : 8, then what is the rate (in percentage) of interest?

(a) 10
(b) 20
(c) 25
(d) 30

Q62. Cost price of a watch is Rs. 530. If the loss percentage is 24%, then what is the value (in Rs.) of loss?

(a) 127.2
(b) 153.2
(c) 139.4
(d) 114.2

Q63. Mahesh buys a watch of Rs. 300 and sells it. Mahesh gives two successive discount of 15% and 6% to the buyer. What will be the selling price (in Rs.) of the watch?

(a) 213.4
(b) 242.3
(c) 239.7
(d) 247.4

Q64. What is the simplified value of $\sqrt{12} - 1/(\sqrt{3})$?

(a) $5\sqrt{3}$
(b) $5/\sqrt{3}$
(c) $3\sqrt{5}$
(d) $3/\sqrt{5}$

Q65. P can complete a work in 15 days and Q in 24 days. They began the work together but Q left the work 2 days before its completion. In how many days was the work completed?

(a) 12
(b) 10
(c) 9
(d) 11

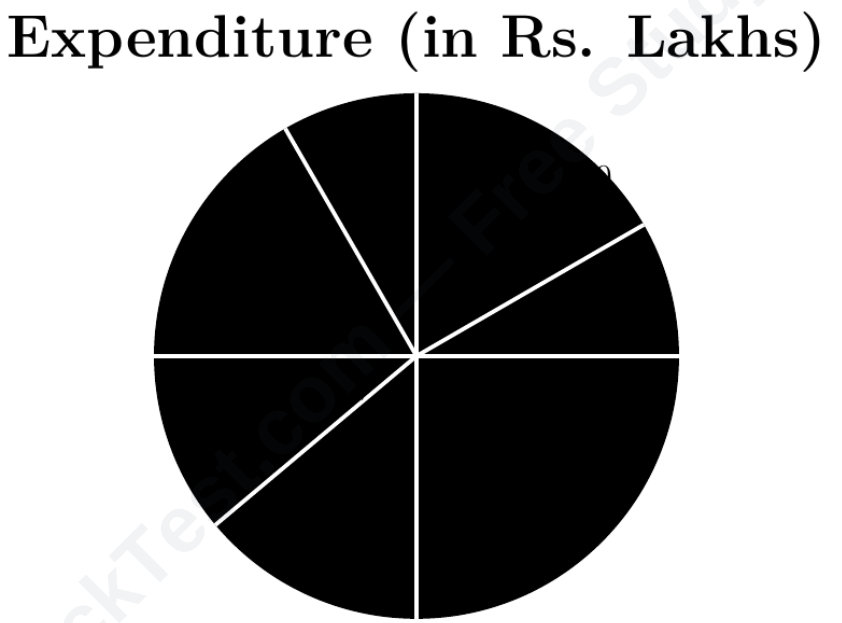
Q66. A bus moves at a speed of 84 km/hr after repairing and moves at a speed of 56 km/hr before repairing. It covers 2x distance in 8 hours after repairing. How much time (in hours) will it take to cover x distance before repairing?

(a) 8
(b) 5
(c) 6
(d) 9

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Directions

Direction: The pie chart shows the breakup of expenditure of a college for the year 2017. Study the diagram and answer the following questions.



Q67. The highest expenditure is for which category?

(a) Rent
(b) Marketing
(c) Assessments
(d) Placements

Q68. What is the total expenditure (in Rs. lakhs)?

(a) 1800
(b) 900
(c) 2000
(d) 1000

Q69. The measure of the central angle of the sector representing Faculty is _____ degrees.

(a) 30
(b) 45
(c) 75
(d) 60

Q70. Expenditure on Assessments and Placements constitute what percent of total expenditure?

(a) 33.3%
(b) 25%
(c) 30%
(d) 27.77%

Q71. The perimeter and the breadth of a rectangle are 60 cm and 14 cm respectively. Find its area (in cm^2).

(a) 112
(b) 448
(c) 224
(d) 336

Q72. If the perimeter of a semi-circle is 108 cm, then find its radius (in cm).

(a) 42
(b) 28
(c) 56
(d) 21

Q73. Find the volume (in cm^3) of a cube of side 7.5 cm.

(a) 421.875
(b) 77.145
(c) 39.245
(d) 24.435

Q74. What is the value of $(\cot 30° + 2/\sqrt{3})$?

(a) $5/\sqrt{3}$
(b) $(1 + 2\sqrt{3})/2$
(c) 5/6
(d) $2/\sqrt{3}$

Q75. ΔXYZ is right angled at Y. If $\tan X = 24/7$, then what is the value of cotZ?

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

GENERAL AWARENESS

Q76. When the productive capacity of the economic system of state is inadequate to create sufficient number of jobs, it is called _____.

(a) Seasonal unemployment
(b) Structural unemployment
(c) Disguised unemployment
(d) Cyclical unemployment

Q77. Which of the following contributes the maximum earning in Indian Railways?

(a) Passenger Earning
(b) Goods Traffic Earning
(c) Sundry Earning
(d) Other Coach

Q78. Which of the following Vedas is referred to as the starting source of the word Rudra?

(a) Rigveda
(b) Samaveda
(c) Yajurveda
(d) Atharva

Q79. The eminent Saint Vallabhacharya was associated with which of the following branches?

(a) Gyanashrayi
(b) Krishnashrayi
(c) Premashrayi
(d) Ramashrayi

Q80. Which of the following is NOT a terrestrial planet?

(a) Mercury
(b) Venus
(c) Mars

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(d) Saturn

Q81. The Line of Cancer passes through how many states of India?

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

Q82. When was Guru Nanak Dev born?

(a) 1449 AD
(b) 1453 AD
(c) 1469 AD
(d) 1499 AD

Q83. Which of the following country is NOT a member of the 'Indian Ocean Rim Association' (IORA)?

(a) Seychelles
(b) Sri Lanka
(c) India
(d) China

Q84. Which of the following President was awarded the Nobel Peace Prize 2016?

(a) Raffel Korea
(b) Juan Manuel Santos
(c) Donald Trump
(d) Alexander Lukashenko

Q85. Who is the present Prime Minister of Pakistan(2018)?

(a) Mamnoon Hussain
(b) Imran Ahmed Khan Niazi
(c) Muhammad Nawaz Sharif
(d) Yousaf Raza Gillani

Q86. In which part of the human body fat is completely digested?

(a) Small Intestine
(b) Liver
(c) Stomach
(d) Large Intestine

Q87. Which of the following statement(s) is/are INCORRECT regarding Phosphorus?

(a) Phosphorus reacts vigorously with water.
(b) It is a non-metal.
(c) It catches fire on reacting with air.
(d) It is found in group 15 of the modern periodic table.

Q88. Match the following

Body	Type
I. Panchayati Raj	1. Non-constitutional
II. Election Commission	2. Local Government
III. Central Information Commission	3. Constitutional

(a) I – 1, II – 2, III – 3
(b) I – 2, II – 1, III – 3
(c) I – 2, II – 3, III – 1
(d) I – 1, II – 3, III – 2

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Q89. All the members of a municipality are _____ by the people of municipal area.

(a) Elected directly
(b) Elected indirectly
(c) Nominated proportionally
(d) Nominated indirectly

Q90. The maintenance functions of living organisms are performed by the _____.

(a) chemical processes
(b) life processes
(c) physical processes
(d) No option is correct

Q91. Which of the following may cause the breakdown of pyruvate into lactic acid in our muscles?

(a) Lack of water
(b) Lack of Oxygen
(c) Lack of carbon dioxide
(d) Lack of nitrogen

Q92. In September 2017, “Pradhan Mantri Sahaj Bijli Har GharYojna” was launched for giving electricity connections in rural and urban areas by _____.

(a) March, 2019
(b) December, 2018
(c) March, 2018
(d) October, 2018

Q93. By which process the Chinese Scientists have cloned two identical long - tailed macaques?

(a) Polymerase chain reaction
(b) Parthenogenesis
(c) Somatic cell nuclear transfer
(d) Embryonic cell nuclear transfer

Q94. In India, how much percent of GDP is the fiscal deficit target for the Financial Year 2017?

(a) 4.20%
(b) 3.20%
(c) 2.20%
(d) 4.00%

Q95. On 10 April 2017, Lok Sabha Passed the Motor Vehicles Act (Amendment) Bill, 2016. Under the new provisions, government will develop a scheme for cashless treatment of road accident victims during _____.

(a) Silver hour
(b) Platinum hour
(c) Diamond hour
(d) Golden hour

Q96. A bullet of mass 10 gm is fired with a velocity of 40 m/s from a gun of mass 8 kg. Find the recoil velocity (in m/s) of the gun.

(a) 2
(b) 0.1
(c) 4
(d) 0.05

Q97. During uniform motion of an object along a straight line, its _____ remains constant with time.

(a) acceleration
(b) deceleration
(c) force

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(d) velocity

Q98. The bodies of penguins are _____ and their feet have webs, making them good swimmers.

(a) heavy
(b) feathery
(c) streamlined
(d) oily

Q99. Which of the statements given below are correct?

A) Dani Pedrosa won the 2017 Qatar Motorcycle Grand Prix MotoGP.
B) Bernhard Langer won the Golf 2017 BMW PGA Championship.
C) Dustin Johnson won the Formula One 2017 Abu Dhabi Grand Prix.

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

Q100. In Microsoft Word, under character formatting _____ increases/decreases the size of the characters.

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

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) 3

The correct answer is 3

Key Points

• 'the Atlantic ocean' should be there in place of 'Atlantic ocean'

• Definite article before the names of bodies of water.

Example: the Amazon, the Ganges, the (English) Channel, the Panama Canal, etc.

**Thus, the correct sentence is: The first and decisive step in the expansion of Europe overseas was the conquest of the Atlantic ocean.

Additional Information

• The definite article is used with geographical names:

• Names of countries which are collective, plural or modified by an adjective or an of-construction take the definite article the: the Czech Republic, the Netherlands, the People's Republic of China, the Philippines, the United Kingdom (UK), the United States of America (USA), etc.

• Bodies of water: the Amazon, the Ganges, the (English) Channel, the Panama Canal, the Atlantic (Ocean), the Pacific (Ocean)

• Deserts: the Gobi (Desert), the Kalahari Desert, the Mojave Desert, the Patagonian Desert, the Sahara (Desert)

• Mountain ranges: the Alps, the Andes, the Appalachians, the Great Dividing Range, the Himalayas

• Some constellations and other heavenly bodies: the Big Dipper (AmE) / the Plough (BrE), the Pleiades, the Cigar Galaxy, the Crab Nebula

Q2. Answer: (a) 1

The correct answer is: 1.

Key Points

• The context of the sentence tells us that the French phrase la danse macabre, which describes the allegorical picture of death's universal power, gave the word "macabre" its importance.

• In Active voice, 'been' doesn't fit in grammatically after the be verb 'had'. (as in part 1 of the sentence).

• Also, 'had been' is is used when something began in the past, went on for some time and then ended. But in this case, macabre still has its significance as it hasn't ended yet.

• Thus, 'had been' must be replaced by 'has' in part (1) of the sentence.

Therefore, the correct sentence is: The word ‘Macabre’ has gained its significance from its use in French as la danse macabre for the allegorical representation of the universal power of death.

Q3. Answer: (c) Declination

The correct answer is Declination

Key Points

• Declination means angular distance north or south from the celestial equator measured along a great circle passing through the celestial poles.

• Declination means deterioration too.

• Example: There's been a declination in basic civility in our society.

• Synonyms: decadence, declension, decline, degeneracy, degeneration, degradation, dégringolade, descent, deterioration, devolution, downfall, downgrade, ebb, eclipse, fall

Q4. Answer: (b) BCA

It's evident that found must be followed by a noun. Only B starts with a noun (safety). B is first. Rule out 3) and 4).

C can't be last since a sentence can't end with a comma followed by feeling. Option 2) BCA is the correct answer.

Many a bird found safety in the trees and built their nests feeling secure in the branches.

Q5. Answer: (b) Transforms

The correct answer is transforms.

Key Points

• In the case of the relative pronoun, the verb must agree with the antecedent of the relative pronoun.

• Examples: He is one of the noblest men that has ever lived on this earth.

He is one of the noblest men that have ever lived on this earth.

• 'magic' is an uncountable noun and uncountable nouns are followed by singular verbs.

Thus, the correct sentence is: It is nothing less than magic which transforms tiny teeny seeds into fruits of life.

Q6. Answer: (c) Was feeling

The correct answer is was feeling

Key Points

• The subject and the verb should agree with each other in the given sentence i.e. If the subject is singular, the verb used should be singular.

• In this sentence 'He' is singular, so should be followed by a singular verb.

• The sentence indicates that the doctor would naturally ask him exactly at the time after removing it, so past continuous tense should be used.

• Option 3) Was feeling is the correct answer.

Q7. Answer: (a) Repatriation

The correct answer is Repatriation

Key Points

• Meaning of the words given in option:
• Repatriation means returning to one's own country.
Example: The voluntary repatriation of refugees
• Migrate means moving from one region to another.
Example: He migrated from India to the U.S.
• Emigrate means to move out from a region.
Example: He emigrated from India
• Immigrate means to move to a region.
Example: He immigrated to the U.S.
• Thus, 'repatriation' is the correct answer.

Q8. Answer: (d) Statuesque

The correct answer is Statuesque
Key Points
• Meaning of the words given in Options:
• Terse: brief; sparing in the use of words. concise.
Example: a terse summary
• Pithy: synonym of terse; using few words.
Example: a pithy remark
• Sententious: trying to appear wise, intelligent, and important, in a way that is annoying
Example: The document was sententious and pompous.
• Statuesque: (of a woman) magnificent; splendid; majestic.
Example: a statuesque actress
• Thus, 'Statuesque' is the correct answer.

Q9. Answer: (b) Things start to fail or go wrong, especially after a period of success.

The correct answer is Things start to fail or go wrong, especially after a period of success.
Key Points
• The wheels have come off: for something previously successful to start faltering or failing.
• Example: They were in the lead with a mighty scoreline of 4-0. And then the wheels came off and they lost 5-4.
• Synonyms: fail, founder, languish, backfire, fizzle, collapse, flop, crash

Q10. Answer: (d) Extremely loudly.

The correct answer is extremely loud
Key Points
• At the top of your lungs: using all the power of your lungs to shout; very loudly.
• Example: I need you to shout at the top of your lungs for help.
• Synonyms: scream, yell, shout, etc.

Q11. Answer: (d) Articulation

The correct answer is articulation
Key Points
• Crisp is an adjective. So we need a noun to be filled in the blank.
• 'Articulation' is a noun. It is the action of producing a sound or word clearly, in speech or music.
• Articulate can act both as an adjective as well as a verb.
• Articulates is a verb.
• Articulations is grammatically incorrect.
• Thus, articulation is the correct answer.

Q12. Answer: (c) Understood

The correct answer is Understood
Key Points
• The structure of the passive voice is very simple:
subject + auxiliary verb (be) + main verb (past participle)

The main verb is always in its past participle form.

• Only 'understood' is in past participle form. Option 3) is the correct answer.

Q13. Answer: (b) Of

The correct answer is of

Key Points

• For: used as a function word to indicate purpose

• of: used as a function word to indicate belonging or a possessive relationship

• From: used as a function word to indicate physical separation or an act or condition of removal, abstention, exclusion, release, subtraction, or differentiation

• At: used as a function word to indicate presence or occurrence in, on, or near

• Here there is a relationship between readers and language.

• People read or speak English. Thus, they are readers/speakers of it. Option 2) Of is the correct answer.

Q14. Answer: (d) Nothing

The correct answer is nothing

Key Points

• We use no + noun. There is an iliary verb after blank, so it does not fit here.

• None is used without any noun after it. When used as a onoun it means no-one; nobody. Since it is used to refer to people, it can not be used here,

• Not is an adverb. We can not use adverb in the given blank, so it does not fit here.

• Nothing means not a single thing or not a single part of something. It is a pronoun and can act as a subject in a sentence.

• The mastery of words is being talked about. It is said that it guides or leads speakers and readers. Since mastery of words = a thing, Option 4) Nothing is the most appropriate choice.

Q15. Answer: (d) Expression

The correct answer is Expression

Key Points

• An adjective qualifies a noun.

• Perfect is an adjective.

• Thus, the blank must consist of a noun.

• Express is a verb, expressive is an adjective and expression is a noun.

• Only possible answer is 4) *Expression (*the action of making known one's thoughts or feelings) is the correct answer.

Q16. Answer: (c) Glamorous

The correct answer is Glamorous

Key Points

• Glamorous means full of glamour : excitingly attractive.

• Example: She looked glamorous in her formal black gown.

• Synonyms: bizarro, exotic, fantastic (also fantastical), marvelou (or marvellous), outlandish, romantic, strange

Q17. Answer: (a) Raj said that he was happy to be there that evening.

The correct answer is Raj said that he was happy to be there that evening.

Key Points

• The given sentence is in Direct Speech. As per the question we have to change it into Indirect speech.

• The process of transformation as follows:

• 'Said' will not change because the Reporting Verb has no object.

• Comma and inverted commas will be removed.

• The conjunction 'That' will be added.

• 'am happy' will be changed into 'was happy'.

• 'this evening' will be changed into 'That evening'.

• 'here' will be changed into 'there'

• Therefore, by applying the above rules we find that the correct answer is Option 1.

Additional Information

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

• | Direct Speech | Indirect Speech |

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

Q18. Answer: (a) The tree is cut down by the officer.

The correct answer is The tree is cut down by the officer.

Key Points

• In Active Voice, a sentence emphasizes the subject, performing an action.

• In Passive Voice, a sentence emphasizes the action or the object of the sentence.

• 'cuts' is changed into 'is/are/am + V3'. 'cut' remains the same in all the three forms.

• The given sentence is in the active voice and 'The officer' is the subject and 'the tree' is the object.

• When we convert this sentence into passive voice, the subject 'She' of the active voice becomes the object, the object becomes the subject.

• Hence, the correct answer is option 1.

Additional Information

• Verbs of passive format have a different set of tenses (*V3 - Past participle or Third form of the Verb) as given below in the table:

TENSE	ACTIVE	PASSIVE	PASSIVE CONVERSION
Present Simple	He plays football	am/is/are + V3	Football is played by him
Present Continuous	He is playing football	am/is/are + being +V3	Football is being played by him
Present Perfect	He has played football	Has/have + been+ V3	Football has been played by him
Present Perfect Continuous	He has been playing football	Not used and unusual.	Not used and unusual
Past Simple	He played football	Was/were + V3	Football was played by him

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Past Continuous	He was playing football	Was/were + being + V3	Football was being played by him
Past Perfect	He had played football	Had + been + V3	Football had been played by him
Past Perfect Continuous	He had been playing football	Not used and unusual	Not used and unusual
Future Simple	He will play football	Will + be + V3	Football will be played by him
Future Continuous	He will be playing football	Not used and unusual	Not used and unusual
Future Perfect	He will have played football	Will have been + V3	Football will have been played by him
Future Perfect Continuous	He will have been playing football	Not used and unusual	Not used and unusual

Q19. Answer: (c) QRP

The correct answer is QRP

Key Points

It is clear that attempts in India can only be followed by Q since the other two (India honesty and India medicine) don't make any grammatical or contextual sense. Rule out 2) and 4). It is a grammatical rule that you can't end a sentence with a proposition. And since by is one => R can't be third. Rule out 1).

Option 3) QRP is the correct answer.

Attempts in India by the government to validate traditional medicine are driven less by honesty and more by blind faith.

Q20. Answer: (d) Honour

The solution is in Hindi. Read it online.

Q21. Answer: (d) Farsighted

The solution is in Hindi. Read it online.

Q22. Answer: (b) Unfriendly

The solution is in Hindi. Read it online.

Q23. Answer: (d) Ingenuous

The solution is in Hindi. Read it online.

Q24. Answer: (a) Real

The correct answer is real

Key Points

• Real: existing in fact and not imaginary

• Virtual: almost or nearly as described, but not completely or according to strict definition

• Fantasy: the faculty or activity of imagining impossible or improbable things

• Artificial: the faculty or activity of imagining impossible or improbable things

• Once you decide to do something, the next step is actually doing it. Where would you do it? This happens outside, in the real world. Or reality. Option 1) Real is the correct answer.

The complete sentence is: Success is achieved twice, once in the mind and the second time in the real world.

Q25. Answer: (b) About

The correct answer is about

Key Points

• 'chat' means to talk to someone in a friendly informal way

• chat can be followed by 'to' and 'about'.

• Chat to someone and chat about something.

Example: She spends hours on the phone chatting to her friends.

We were just chatting about what we did last weekend

• The blank is followed by 'car'. Thus, 'about' is the correct answer.

• The complete sentence is: She was chatting about the cars.

Q26. Answer: (d) Up : Down

The pattern followed here is:-
As ‘End’ is an antonym of ‘Start’,
Similarly ‘Down’ is an antonym of Up.
Hence, the correct answer is "Up : Down".

Q27. Answer: (a) 53 : 64

The pattern followed here is
(First number + 11) = Second number
In 31 : 42
31 + 11 = 42
Similarly,
In 53 : 11
53 + 11 = 64
Hence. the correct answer is "53 : 64".

Q28. Answer: (b) FYK

The pattern followed here is:-
FUT is related to JYX as:-
Similarly,
BUG is related to FYK as:-
Hence, ‘FYK’ is the correct answer.

Q29. Answer: (c) Desert

The logic followed here is:-
Ocean, Sea and River are water bodies.
Whereas,
Desert is a landmass.
So, Desert is the odd one out.
Hence, the correct answer is "Desert".

Q30. Answer: (d) 104 – 106

The pattern followed here is:-
Second number - 4 = First number
1) In 101 – 105 → 105 - 4 = 101
2) In 103 – 107→ 107 - 4 = 103
3) In 102 – 106 → 106 - 4 = 102
4) In 104 – 106 → 106 - 4 = 102 ≠ 104
Hence, the correct answer is "104 – 106".

Q31. Answer: (d) AGL

The pattern followed here is:-
1) KQW
2) RXD
3) BHN
4) AGL
As can be seen from above, AGL does not follow the same pattern and so, AGL is the odd one out.
Hence, the correct answer is "AGL".

Q32. Answer: (b) Trickle

The Logical order of the given words as they would appear in an English dictionary is as shown below:-
1. Toast
2. Torpedo
3. Tounge

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5. Trick
4. Trickle
As can be seen clearly, Trickle is the word that will come at the last position.
Hence, the correct answer is "Trickle".

Q33. Answer: (b) 31

The pattern followed here is:-
As can be seen clearly, 31 is the next number in the series.
Hence, the correct answer is "31".

Q34. Answer: (c) MM

The pattern followed here is:-
As can be seen clearly MM is the next term in the series.
Hence, the correct answer is "MM".

Q35. Answer: (c) M

Given → L, M, N, O, and P are sitting in a line facing east.
1) N is sitting at the North end.
2) O is sitting at the south end.
3) P is the neighbour of M and N.
4) L and M are sitting together.
As can be seen clearly, 'M' is sitting third from the North end.
Hence, the correct answer is "M".

Q36. Answer: (d) Prove

Let's check each option,
1) Poor: CORPORATE, hence word can be formed.
2) Rate: CORPORATE, hence word can be formed.
3) Cat: CORPORATE, hence word can be formed.
4) Prove: 'V' is not present in CORPORATE, hence word cannot be formed.
Hence, the correct answer is " Prove ".

Q37. Answer: (d) GWNCX

The patter that followed here is,
Similarly,
Hence, the correct answer is " GWNCX ".

Q38. Answer: (b) 42

As per the given information,

Symbols	•	•	×	÷
Codes	•	×	÷	•

Given: 9 - 18 + 35 × 10 ÷ 30
Changing symbols as per the given information
We get,
9 + 18 × 35 ÷ 10 – 30
Using BODMAS,
9 + 18 × 35 ÷ 10 – 30 =?
9 + 63 - 30 =?
72 - 30 =?
42 =?
Hence, the correct answer is " 42 ".

Q39. Answer: (b) ÷ and -

Let's check each option,

1) + and ×

→ 20 ÷ 14 × 5 + 20 - 2 = 56

→ 50 ÷ 7 + 20 - 2 = 56

→ 50 ÷ 7 + 18 = 56

→ 26.1 ≠ 56.

→ LHS ≠ RHS.

2) ÷ and -

→ 20 - 14 + 5 × 20 ÷ 2 = 56

→ 20 - 14 + 50 = 56

→ 6 + 50 = 56

→ 56 = 56.

→ LHS = RHS.

3) + and ÷

→ 20 + 14 ÷ 5 × 20 - 2 = 56

→ 20 + 56 - 2 = 56

→ 74 ≠ 56.

→ LHS ≠ RHS.

4) - and +

→ 20 ÷ 14 - 5 × 20 + 2 = 56

→ 20 ÷ 14 - 100 + 2 = 56

→ 20 ÷ 14 - 98 = 56

→ - 96.5 ≠ 56.

→ LHS ≠ RHS.

Here, we can see that Only Option 2 satisfy the equation.

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

Q40. Answer: (a) 6

The pattern followed here is,

16α1 = 16 ÷ 2 = 8; 8 × 1 = 8.

14α6 = 14 ÷ 2 = 7; 7 × 6 = 42.

12α5 = 12 ÷ 2 = 6; 6 × 5 = 30.

Similarly,

2α6 = 2 ÷ 2 = 1; 1 × 6 = 6

Hence, the correct answer is " 6 ".

Q41. Answer: (c) XyZXYZXYZ

The pattern followed here is,

→ The capital letters are replaced with small letter moving one place to the left.

X	**Y**	**Z**	**X**	**Y**	**Z**	**x**	**Y**	**Z**
X	Y	Z	X	Y	z	X	Y	Z
X	Y	Z	X	y	Z	X	Y	Z
X	Y	Z	x	Y	Z	X	Y	Z
X	Y	z	X	Y	Z	X	Y	Z
X	y	Z	X	Y	Z	X	Y	Z

Hence, the correct answer is " XyZXYZXYZ ".

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Q42. Answer: (a) 9 cm East

As per the given information,

1) An insect walks 15 cm East.

2) Then it turns to its right and walks for another 20 cm.

3) Then it turns right and walks 4 cm.

4) Then it turns North and walks 20 cm.

5) Then finally it turns to its left and walks 2 cm.

Here, we can see that the insect is 9 cm towards East from the starting point.

Hence, the correct answer is " 9 cm East ".

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

The least possible diagram of this question is as follows,

Conclusion I: All sports are exercise → False (It is not possible).

Conclusion II: Some exercise are sports → False (It is possible but not definite).

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

Q44. Answer: (a) DC

The Venn diagram representation as follows;

Mothers who are campers = D and C

Hence, the correct answer is " DC ".

Note:

If in the question is Mothers who are only campers, the answer is C.

Q45. Answer: (b) MZO

The pattern followed here is,

Hence, the correct answer is " MZO ".

Q46. Answer: (b) 76

The pattern followed here is,

Hence, the correct answer is " 76 ".

Q47. Answer: (d) (9, 16, 35)

The logic followed here is,

First number + 7 = Second number.

Second number + 7 = third number.

Let's check each option as per the logic,

1) (7, 14, 21)

→ 7 + 7 = 14.

→ 14 + 7 = 21.

2) (5, 12, 19)

→ 5 + 7 = 12.

→ 12 + 7 = 19.

3) (3, 10, 17)

→ 3 + 7 = 10.

→ 10 + 7 = 17

4) (9, 16, 35)

→ 9 + 7 = 16.

→ 16 + 7 = 23 ≠ 35.

Here, we can see that Only Option 4 doesn't satisfy the logic.

Hence, the correct answer is " (9, 16, 35) ".

Q48. Answer: (b) [figure]

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

Hence, the correct answer is " Option 2 ".

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Q49. Answer: (c) [figure]

When the unfolded cube is folded, the pairs of opposite sides we get are,

<=>

<=>

<=>

Let's check each option,

1)

→ Can be formed.

2)

→ Can be formed.

3)

→ Cannot be formed because

and

are opposite sides.

4)

→ Can be formed.

Here, we can see that Only Cube in Option 3 cannot be formed.

Hence, the correct answer is " Option 3 ".

Q50. Answer: (b) 13, 67, 22, 20

Let's check each option,

1) 20, 86, 11, 65 → K, X, H, Y

2) 13, 67, 22, 20 → M, O, C, K

3) 12, 89, 12, 69 → L, S, L, O

4) 20, 59, 20, 76 → K, X, K, N

Hence, the correct answer is " 13, 67, 22, 20 ".

Q51. Answer: (b) 1219

Calculation:

Here we use elimination method for finding the square root of 1485961

The unit digit of no. 1485961 is 1

We have 4 options 1213, 1219, 1229 and 1239

We get unit digit 1 when we square a no. that ends with 1 or 9. So, option (1) 1213 is eliminated.

Now we take the square of 1220 that is > 1219 and < 1229

=> $(1220)^2 = 1488400$

This value 1488400 > 1485961, so we can say that 1485961 is the square of 1219.

Q52. Answer: (c) 0.333

Given:

$a^2 + b^2 = 80$ and $ab = 32$

Formula used:

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

$(a – b)2 = a2 + b2 – 2ab$

Calculation:

$(a + b)^2 = a^2 + b^2 + 2ab = 80 + 2 \times 32 = 80 + 64 = 144$

=> $a + b = 12$

$(a – b)^2 = a^2 + b^2 – 2ab = 80 – 2 \times 32 = 80 – 64 = 16$

=> $a – b = 4$

$(a - b)/(a + b) = 4/12 = 1/3 = 0.333\sim$

Shortcut TrickLet $a = 4$ and $b = 8$, then $a^2 = 4^2 = 16$ and $b^2 = 64$

then $a2 + b2 = 16 + 64 = 80$ satisfied

So, $(a - b)/(a + b) = 4/12 = 1/3 = 0.333\sim$

Q53. Answer: (b) 36

Calculation:

(7776)^(2/5) = [(2^5) × (3^5)]^(2/5)~~

=> (2)^(5 × 2/5) × (3)^(5 × 2/5)

=> (2)^(2) × (3)^(2) = 4 × 9 = 36

Q54. Answer: (d) 22

Shortcut Trick 8x - 8/x - 16 = 0

=> 8x - 8/x = 16

=> 8(x - 1/x) = 16

=> x - 1/x = 2

If x - 1/x = k then the value of $x^3 - 1/(x^3) = k(k^2 + 3)$ and here k = 2

=> $x^3 - 1/(x^3) = 2(2^2 + 3) = 14$

=> $x^3 - 1/(x^3) + 8 = 14 + 8 = 22$

Q55. Answer: (b) equilateral triangle

The triangle in which the orthocenter, circumcentre, Incenter and the centroid coincide each other at a point is known as Equilateral triangle

Q56. Answer: (b) 43.75%

Given:

Percentage decrease in radius of circle = 25%

Formula used:

Area of circle = πr^2

where r → radius of the circle

Calculation:

The radius of the circle is r.

If the radius of a circle is decreased by 25%

New radius = r - r × 0.25 = 0.75r

Old Area = πr^2

New Area = $\pi \times (0.75r)^2 = \pi \times 0.5625r^2 = 0.5625\pi r^2$

percentage decrease in the area of the circle = $(\pi r^2-0.5625\pi r^2)/(\pi r^2)\times 100=43.75$ %

Therefore Area of the circle is decreased by 43.75%

Shortcut TrickPercentage decrease = 25 + 25 - (25 × 25/100) = 43.75%

Q57. Answer: (c) 10% decrease

Given:

Decrease in the price of a fan = 40%

Increase in sales = 40%

Concept used:

Revenue = Sale × Price

Calculation:

As Price = 40% = 2/5 and Sale = 50% = 1/2

	Initial	Final
Price	5	3
Sale	2	3
Revenue	10	9

So, Decrease in revenue = 1/10 × 100 = 10%

Shortcut TrickNet percentage increase/decrease in revenue = ± x ± y ± xy/100

Net percentage increase/decrease in revenue

=> - 40 + 50 – (40 × 50)/100 = - 40 + 50 – 20 = -10%

Therefore 10% decrease in fan’s revenue.

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Q58. Answer: (d) 820

Given:

Total sum = Rs. 2489

Diminution in shares of A, B and C = Rs. 12, Rs. 12 and Rs. 5

Ratio of their share = 5 : 3 : 4

Calculation:

Let ratio of A, B and C be 5x, 3x and 4x

Total Sum = Rs. 2489

New sum after diminishing the amount

=> 2489 – 12 – 12 – 5

=> 2489 – 29 = 2460

Therefore C's share = (4x/12x) × 2460 = 820

Q59. Answer: (b) 4 : 9

Given:

The milk and water in two vessels are in the ratio of 3 : 1 and 7 : 11 respectively.

Concept used:

Rule of Alligation

Calculation:

Ratio of milk and water in Vessel 1 = 3 : 1

Ratio of milk and water in Vessel 2 = 7 : 11

Now using alligation method for milk,

Therefore required ratio = (7 – 9)/18 : (2 – 3)/4 = -2/18 : -1/4 = 1/9 : 1/4 = 4 : 9

Q60. Answer: (a) 35.33

Given:

Average of 14 numbers = 32

Average of last 5 number = 26

Formula used:

Average = Sum of all observation ÷ no. of observation

Calculation:

Sum of 14 number = 32 × 14

Sum of last 5 numbers = 5 × 26

Therefore Average of remaining numbers = (14 × 32 - 5 × 26)/(14 - 5) = (448 - 130)/9 = (318)/9 = 35.33

Q61. Answer: (b) 20

Given:

Ratio of Principal and Interest = 5 : 8

Time = 8 years

Formula used:

S.I. = (P × R × T)/100

where P → Principal

R → rate of interest and

T → Time period

Calculation:

Principal : Interest = 5 : 8

So, S.I. = 8a and P = 5a

S.I. = (P × R × T)/100

=> 8a = (5a × R × 8)/100

Therefore R = (100 × 8a)/(5a × 8) = 20%

Shortcut TrickRatio of Principal and Interest = 5 : 8

Total interest for 8 years = 8/5 × 100 = 160%

Interest per year = 160%/8 = 20%

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Q62. Answer: (a) 127.2

Given:

The cost price of a watch is Rs. 530 and loss = 24%

Formula used:

C.P of the watch × loss% = Loss

Calculation:

C.P of the watch × 24/100 = Loss

=> 530 × 24/100 = Loss

Therefore Loss = Rs. 127.2

Q63. Answer: (c) 239.7

Given:

C.P. of watch = Rs.300

Successive discount = 15% and 6%

Formula used:

S.P. = M.P. × {(100 - Discount1)/100} × {(100 - Discount2)/100}

Calculation:

=> S.P. = 300 × (100 - 15)/100 × (100 - 6)/100.

=> 300 × 85/100 × 94/100

Therefore S.P. = 3 × 85 × 94/100 = 239.7

Q64. Answer: (b) 5/√3

Calculation:

√12 - 1/(√3) = 2√3 - 1/(√3) = (6 - 1)/(√3) = 5/(√3)

Q65. Answer: (b) 10

Given:

Time taken by P = 15 days

Time taken by Q = 24 days

Concept used:

Total Work = Efficiency × Time

Calculation:

Let Total work = LCM of 15 and 24 = 120 units

Efficiency of P = 120/15 = 8 units/day

Efficiency of Q = 120/24 = 5 units/day

Total Efficiency of P and Q = 8 + 5 = 13 units/day

Total work done by Q in 2 days = 5 × 2 = 10 units

Now New Total work = 120 + 10 = 130 units

Therefore Total time taken to complete the work = 130/13 = 10 days

Q66. Answer: (c) 6

Given:

Speed(S_A) of bus after repairing = 84km/h

Speed(S_B) of bus before repairing = 56km/h

Distance covered after repairing = 2x in 8 hours

Formula used:

Speed = Distance traveled/Time taken

Calculation:

S_A= Distance/Time

=> 84 = 2x/8

=> x = 84 × 4 = 336 km

S_B= Distance/Time = x/Time

=> 56 = 336/Time

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Therefore Time = 336/56 = 6 hours

Q67. Answer: (b) Marketing

Calculation:

As shown in the pie chart, the value of Marketing is 450 lakhs which is greater than any other expenditure.

So answer is Marketing.

Q68. Answer: (a) 1800

Calculation:

Total Expenditure

=> Expenditure of (Faculty + Staff + Marketing + Rent + Assessments + Placements + Taxes)

Therefore Total Expenditure = 300 + 150 + 450 + 250 + 200 + 300 + 150 = 1800

Q69. Answer: (d) 60

Calculation:

Therefore The central angle of the sector representing Faculty

=> 300/1800 × 360° = 60°

Q70. Answer: (d) 27.77%

Calculation:

Total expenditure on Assessments and Placements

=> 200 + 300 = 500

Therefore Required Percentage = 500/1800 × 100 = 500/18 = 27.77%

Q71. Answer: (c) 224

Given:

The perimeter of rectangle = 60cm

The breadth of the rectangle = 14cm

Formula used:

Perimeter of rectangle = 2(l + b)

Area of the rectangle = l × b

where l → length and b → breadth

Calculation:

Perimeter of rectangle = 60

=> 2(l + 14) = 60

=> l + 14 = 30

=> l = 16 cm

Therefore Area of rectangle = 16 × 14 = 224 cm^2

Q72. Answer: (d) 21

Given:

Perimeter of semi-circle = 108cm

Formula used:

Perimeter of semi-circle = r(π + 2)

where r → radius of a circle

Calculation:

=> 108 = r(22/7 + 2)

=> 108 = 36/7 × r

Therefore r = 3 × 7 = 21 cm

Q73. Answer: (a) 421.875

Given:

Side of a cube = 7.5cm

Formula used:

Volume of cube = a^3

where a → side of a cube

Calculation:

Therefore Volume of cube = $(7.5)^3$ = 421.875 cm^3

Q74. Answer: (a) 5/√3

Calculation:

As cot 30° = √3

cot 30° + 2√3

=> √3 + 2/√3

=> (3 + 2)/√3 = 5/√3

Q75. Answer: (d) 24/7

Given:

ΔXYZ is right-angled at Y

tanX = 24/7

Concept used:

Tanθ = p/b

Cot θ = b/p

where p → perpendicular

b → base

Calculation:

tanX = 24/7 = YZ/XY

Therefore cot Z = YZ/XY = 24/7

Q76. Answer: (d) Cyclical unemployment

The correct answer is Cyclical unemployment.

Key Points

• When the productive capacity of the economic system of the state is inadequate to create a sufficient number of jobs, it is called Cyclical unemployment.

• Cyclical unemployment is a type of unemployment where the workers lose their jobs because of downturns in the business cycle.

• It is called cyclical unemployment because it relates to cyclical trends in growth and production that occur within the business cycle.

• When the business cycle is at its peak, cyclical unemployment is at its lowest as economic output is maximum.

Additional Information

• Seasonal unemployment

• It happens when people are not able to find jobs during some months of the year.

• People dependent upon agriculture usually face such kind of problem.

• There are certain busy seasons when sowing, harvesting, weeding and threshing are done.

• Certain months do not provide much work to the people dependent on agriculture

• Disguised unemployment

• People appear to be employed.

• They have an agricultural plot where they find work.

• This usually happens among family members engaged in agricultural activity.

• The work requires the service of five people but engages eight people. Three people are extra.

• These three people also work in the same plot as the others.

• The contribution made by the three extra people does not add to the contribution made by the five people.

• If three people are removed the productivity of the field will not decline.

• The field requires the service of five people and the three extra people are disguised as unemployed.

• Structural unemployment

• It means that employers need different skills and employee has different.

• Here it is asked about inadequate job creation which means that no jobs are required in the market according to present demand and supply chain.

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Q77. Answer: (b) Goods Traffic Earning

The correct answer is Goods Traffic Earning.

Key Points

• Goods Traffic Earning contributes to the maximum earning in Indian Railways.

• In the financial year 2017, Indian Railways' total traffic earning was Rs. 1.65 lakh crore, which was an increase of Rs. 10,000 crores from the last financial year.

Q78. Answer: (a) Rigveda

The correct answer is Rigveda.

Key Points

• Rudra is an early form of the Hindu god Shiva, the lord of destruction, and due to the complex mythological and religious link between the two deities, they are often referred to together as Rudra-Shiva.

• The earliest mentions of Rudra occur in the Rig Veda, where three entire hymns are devoted to him.

• Rudra is a Rigvedic deity, associated with wind or storm and the hunt.

Additional Information

• Rig Veda

• It is the earliest of the four Vedas and one of the most important texts of the Hindu tradition.

• It consists of 1028 hymns, organized into ten books known as mandalas.

• It is a large collection of hymns in praise of the gods, which are chanted in various rituals.

• They were composed in an archaic language named Vedic that gradually evolved into classical Sanskrit.

• Sama Veda

• It is the shortest of all four Vedas.

• It is closely connected with Rigveda.

• It is a collection of melodies.

• It is compiled exclusively for ritual application.

• The verses are all meant to be chanted at the ceremonies.

• Yajur Veda

• It is one of the four Vedas.

• It contains liturgical texts used during various important Hindu rituals.

• The text describes the way in which religious rituals and sacred ceremonies should be performed, and it is therefore primarily intended for Hindu priests.

• Atharva Veda

• It is the fourth Vedic collection and the second oldest Indian text.

• It denotes directions and mantras, especially in connection to warding off evil and hardship.

• It also contains philosophical thoughts.

Q79. Answer: (b) Krishnashrayi

The correct answer is Krishnashrayi.

Key Points

• Vallabhacharya:-

• He was the founder of the Vaishnavite cult of Rajasthan and Gujarat.

• He said that he had learned his system direct from Lord Krishna.

• He preached the worship of Lord Vishnu in the form of Krishna. He called himself an incarnation of the Lord Agni.

Q80. Answer: (d) Saturn

The correct answer is Saturn.

Key Points

• The first four planets are called Terrestrial, meaning earth-like planets like Mercury, Venus, Earth, and Mars.

• They are also called inner planets.

• They lie between the sun and the belt of asteroids.

• They are made up of rock and metals and have relatively high densities.

• The terrestrial planets were formed in the close vicinity of the parent star where it was too warm for gases to condense to solid particles.

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• The terrestrial planets are smaller and their lower gravity could not hold the escaping gases.
• Other than them the planets are called jovian or giant planets like Jupiter, Saturn, Uranus, and Neptune.
• They are also called the outer planets.
• Most of them are much larger than the terrestrial planets and have a thick atmosphere, mostly of helium and hydrogen.
• The solar winds were not all that intense to cause the removal of gases from the Jovian planets.

Additional InformationInner or Terrestrial planets:

1. Mercury
2. Venus
3. Earth
4. Mars

Outer Planets or Jovian planets:

1. Jupiter
2. Saturn
3. Uranus
4. Neptune

• My Very Excited Mother Just Served Us Nachos
• M → Mercury, V → Venus, E → Earth, M → Mars, J → Jupiter, S → Saturn, U → Uranus, N → Neptune

Q81. Answer: (d) 8

The correct answer is 8.

Key Points

• Tropic of Cancer
• It is an imaginary line that is at an angle of 23.50 degrees.
• It is North of the Equator, which passes through the middle of India.
• The Tropic of Cancer passes through 17 countries and India is one of them.
• The Tropic of Cancer passes through eight states in India:
• Gujarat (Jasdan)
• Rajasthan (Kalinjarh)
• Madhya Pradesh (Shajapur)
• Chhattisgarh (Sonhat)
• Jharkhand (Lohardaga)
• West Bengal (Krishnanagar)
• Tripura (Udaipur)
• Mizoram (Champhai)
• Tropic of Cancer crosses the Mahi River twice, first in Madhya Pradesh from where it flows towards Rajasthan and enters Gujarat where it cuts for the second time.

Q82. Answer: (c) 1469 AD

The correct answer is 1469 AD.

Key Points

• Guru Nanak Dev was born on 15 April 1469 at Talwandi village in the Lahore province of the Delhi Sultanate (present-day Nankana Sahib, Punjab, Pakistan).
• He was the founder of Sikhism and the first of the ten Sikh Gurus.
• Around the age of 55, Nanak Devji settled in Kartarpur and lived there until his death in September 1539.
• Recently Kartarpur Corridor was opened by the Indian and Pakistan government for the Sikh devotees.
• The teaching of Guru Nanak Devji can be found in the Sikh scripture Guru Granth Sahib, as a collection of verses recorded in Gurmukhi which was written by Guru Arjan Dev.

Additional Information

• Guru Angad- He started the practice of "Langer". He also developed the Gurumukhi script.
• Guru Amar Das- Composed the Anand Sahib, introduced the simple Anand Karaj marriage and abolished Sati among the Sikhs.
• Guru Ram Das- He laid the foundation of the holy city of Amritsar and initiated the construction of the Golden Temple.
• Guru Arjan Dev- Compiled the Adi Granth and constructed the Golden Temple.
• Guru Hargobind- Created the Sikh martial art called Gatka. Built the Akal Takhat.

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• Guru Har Rai- He was known as the "tender-Hearted Guru".

• Guru Har Kishan- Youngest Sikh Guru, installed at the age of 5.

• Guru Teg Bahadur- Refused to convert to Islam and was beheaded by Aurangzeb.

• Guru Gobind Singh- He was the last Sikh Guru. He established the military force of "Khalsa".

Q83. Answer: (d) China

The correct answer is China.

Key Points Indian Ocean Rim Association (IORA):

• The Indian Ocean Rim Association is an inter-governmental organization that was established on 7 March 1997.

• The vision for IORA originated during a visit by the late President Nelson Mandela of South Africa to India in 1995.

• IORA's apex body is the Council of Foreign Ministers (COM) which meets annually. Hence statement 2 is correct.

• The United Arab Emirates (UAE) assumed the role of Chair from November 2019 - November 2021, followed by the People's Republic of Bangladesh.

• A committee of Senior Officials (CSO) meets twice a year to progress IORA's agenda and consider recommendations by Working Groups and forums of officials, businesses and academics to implement policies and projects to improve the lives of people within the Indian Ocean Member States.

• Promoting sustained growth and balanced development within the Indian Ocean region, IORA strengthens cooperation and dialogue with the Member States namely:

• Commonwealth of Australia, People's Republic of Bangladesh, Union of Comoros, French Republic, Republic of India, Republic of Indonesia, Islamic Republic of Iran, Republic of Kenya, Republic of Madagascar, Malaysia, Republic of Maldives, Republic of Mauritius, Republic of Mozambique, Sultanate of Oman, Republic of Seychelles, Republic of Singapore, Federal Republic of Somalia, Republic of South Africa, Democratic Socialist Republic of Sri Lanka, United Republic of Tanzania, Kingdom of Thailand, United Arab Emirates and the Republic of Yemen. Hence China is not a member of IORA.

• All sovereign States of the Indian Ocean Rim are eligible for membership in the Association.

• To become members, States must adhere to the principles and objectives enshrined in the Charter of the Association.

Q84. Answer: (b) Juan Manuel Santos

The correct answer is Juan Manuel Santos.

Key Points

• Juan Manuel Santos:-

• He was awarded Nobel Peace prize 2016 by The Norwegian Nobel Committee.

• He was awarded for his resolute efforts to bring the Colombia's more than 50-year-long civil war to an end. The war cost the lives of at least 220000 Colombians and displaced close to six million people.

Additional Information

• Donald John Trump (born June 14, 1946):-

• He is an American media personality and businessman who served as the 45th president of the United States from 2017 to 2021.

• Born and raised in Queens, New York City, Trump attended Fordham University for two years and received a bachelor's degree in economics from the Wharton School of the University of Pennsylvania.

• Trump belongs to Republican Party.

• Alexander Lukashenko is the current President of Belarus.

Q85. Answer: (b) Imran Ahmed Khan Niazi

The correct answer is Imran Ahmed Khan Niazi

Key Points

• Imran Ahmed Khan Niazi is a Pakistani politician who was the 22nd Prime Minister of Pakistan. He is the founder and chairman of the Pakistan Tehreek-e-Insaf. Before entering politics, Khan was an international cricketer and philanthropist.

Important Points

• Current (2023) prime minister of Pakistan- Shehbaz Sharif

• Capital of Pakistan- Islamabad

• Currency of Pakistan- Pakistani Rupee

• The India-Pakistan border is known as the Radcliffe line.

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Q86. Answer: (a) Small Intestine

The correct answer is Small Intestine.

Key Points

• The small intestine is the part of the human digestive system is the digestion of food completed.

• It is an organ in the gastrointestinal tract where most nutrient and mineral absorption from food ends up.

• It lies between the stomach and the large intestine and absorbs bile and pancreatic juice to help in digestion through the pancreatic duct.

• There are three distinct regions of the small intestine-duodenum, jejunum, and ileum.

• The large intestine is the last part of the gastrointestinal tract and of the vertebrate digestive system.

• In humans, in the right iliac region of the pelvis, the large intestine begins, just at or below the waist.

Additional Information

Human digestive system-

The digestive system includes 5 steps, They are in order as follows::

1) Ingestion

2) Digestion

3) Absorption

4) Assimilation

5) Egestion

• Ingestion: It is the process of taking food into the body by the animal.

• Digestion: It is the process in which food containing larger molecules is converted or break down into small water-soluble molecules.

• Absorption: It is the process in which digested food goes into the bloodstream.

• Assimilation: It is the process in which absorbed food is taken up by the body cells for their growth and energy.

• Egestion: It is the process in which undigested is discharged as faeces.

Q87. Answer: (a) Phosphorus reacts vigorously with water.

The correct answer is Phosphorus reacts vigorously with water.

Explanation:

• Phosphorus is a highly reactive element, which is spontaneously oxidized in the presence of air.

• So, it can be stored underwater without any observable reactions. Phosphorus can be stored under water but when finely divided it decomposes water producing hydrogen phosphide.

• And when boiled with water, phosphine and hypophosphorous acid are produced.

Q88. Answer: (c) I – 2, II – 3, III – 1

The correct answer is I – 2, II – 3, III – 1.

Key Points

• Panchayati Raj is a form of local government for villages.

• The election commission is a constitutional body responsible for holding elections in India. It is a constitutional body in India.

• Central Information Commission is a non-constitutional body set up under the Right to Information act to act upon complaints from those individuals who have not been able to submit information requests to a Central Public Information Officer or State Public Information Officer.

Hence option 3 is correct.

Q89. Answer: (a) Elected directly

The correct answer is Elected directly.

Key Points

• All the members of the Panchayat at village, intermediate & district levels shall be elected directly by the people.

• All the members of a Municipality are to be directly elected by the people of the Municipal area and for the purpose of making the electorate; the municipal area is divided into territorial constituencies known as Wards.

• The Chairperson of Panchayat (at intermediate & district levels) shall be elected indirectly by & among the elected members thereof.

• The Chairperson of Panchayat at the village level shall be elected in such a manner as the state legislature determines.

Q90. Answer: (b) life processes

The correct answer is life processes.

Explanation:

The basic essential activities performed by an organism to withstand its life are called as life processes. These include nutrition, respiration, circulation, excretion and reproduction. Organisms obtain energy from food to perform these life processes which are essential for survival. These are also termed maintenance processes.

Q91. Answer: (b) Lack of Oxygen

The correct answer is Lack of Oxygen.

Explanation:

• When the body has plenty of oxygen, pyruvate is shuttled to an aerobic pathway to be further broken down for more energy.

• But when oxygen is limited, the body temporarily converts pyruvate into a substance called lactate, which allows glucose breakdown and thus energy production continues.

• The first step of respiration is the breakdown of glucose, a six-carbon molecule, into a three-carbon molecule called pyruvate.

• This process takes place in the cytoplasm.

• Further, the pyruvate may be converted into ethanol and carbon dioxide. This process takes place in yeast during fermentation. Since this process takes place in the absence of air (oxygen), it is called anaerobic respiration.

• Breakdown of pyruvate using oxygen takes place in the mitochondria. This process breaks up the three-carbon pyruvate molecule to give three molecules of carbon dioxide. The other product is water. Since this process takes place in the presence of air (oxygen), it is called aerobic respiration.

• The release of energy in this aerobic process is a lot greater than in the anaerobic process.

• Sometimes, when there is a lack of oxygen in the muscle cells, another pathway for the breakdown of pyruvate is taken.

• Here the pyruvate is converted into lactic acid which is also a three-carbon molecule.

• This build-up of lactic acid in our muscles during sudden activities like exercise causes cramps.

Q92. Answer: (b) December, 2018

The correct answer is December 2018.

Key Points

• The Prime Minister Shri Narendra Modi launched a new scheme Pradhan Mantri Sahaj Bijli Har Ghar Yojana –“Saubhagya” to ensure the electrification of all willing households in the country in rural as well as urban areas.

• The States and Union Territories are required to complete the works of household electrification by the 31st of December 2018.

• Pradhan Mantri Sahaj Bijli Har Ghar Yojana - Saubhagya is to provide energy access to all by last mile connectivity and electricity connections to all remaining un-electrified households in rural as well as urban areas to achieve universal household electrification in the country.

• The Prime Minister, Shri Narendra Modi launched the Pradhan Mantri Sahaj Bijli Har Ghar Yojana - Saubhagya, at Deendayal Urja Bhawan, in New Delhi on September 25, 2017.

• The scheme aims to achieve 24x7 power for all by 2019 by providing electricity connections to each household across the country.

• The Ministry of Power would be the implementing authority of the scheme.

Q93. Answer: (c) Somatic cell nuclear transfer

The correct answer is Somatic cell nuclear transfer.

Key Points

• Somatic cell nuclear transfer (SCNT):-

• It is the process of transplanting nuclei from adult cells into oocytes or blastocysts and allowing them to grow and differentiate, producing pluripotent cells.

• This process has both reproductive and therapeutic implications.

• Somatic cell nuclear transfer (SCNT), or cloning is an artificial method beside fertilization

• SCNT can also confer totipotency.

• Dolly was produced by British developmental biologist Ian Wilmut and colleagues of the Roslin Institute, near Edinburgh, Scotland.

• Chinese scientists for first time have successfully cloned two identical long-tailed macaques (monkeys), named Zhong Zhong and Hua Hua using the same technique that produced Dolly sheep two decades ago.

• These two identical long-tailed macaques were cloned using process called somatic cell nuclear transfer (SCNT), which involves

transferring the nucleus of cell, which includes its DNA, into egg whose nucleus is removed.

Additional Information

• Parthenogenesis:-

• It is a form of reproduction in which an egg can develop into an embryo without being fertilized by a sperm.

• Parthenogenesis is derived from the Greek words for “virgin birth,” and several insect species including aphids, bees, and ants are known to reproduce by parthenogenesis.

• Parthenogenesis is a reproductive strategy that involves the development of a female (rarely a male) gamete (sex cell) without fertilization.

• Polymerase reaction:-

• It is a step in which many copies are formed from DNA.

• It consists of denaturation, annealing, and elongation steps.

Q94. Answer: (b) 3.20%

The correct answer is 3.20%

Key Points

• Finance minister Arun Jaitley revised his fiscal deficit target for 2018-19 to 3.3% of the gross domestic product (GDP) against the earlier target of 3%, after breaching the deficit target for 2017-18 which was 3.20.

Important PointsImportant article related to Budget-

Article	Provision for
102	States about the Disqualification for membership of parliament.
110	Deals with the definition of money bills
111	States about the Assent to bills in the parliament.

Q95. Answer: (d) Golden hour

The correct answer is Golden hour.

Key Points

• The government will roll out the country’s first project for cashless treatment of road accident victims in August on the Pathankot-Amritsar stretch. In this pilot project, the government will bear all medical expenses during the first 48 hours of hospitalization of road accident victims.

Q96. Answer: (d) 0.05

Calculation:

It is given that,

Mass of bullet = 10 gm = 0.01 kg, Mass of Gun = 8 kg and Velocity of Bullet = 40 m/s

We know that,

=> Momentum = Mass × Velocity

According to the Law of conservation of linear momentum,

=> Momentum of Bullet (M_B) = Momentum of Gun (M_G)

=> Mass of Bullet × Velocity = Mass of Gun × Velocity(V_G)

=> 0.01 kg × 40 m/s = 8 kg × V_G

=> V_G = (1/20) m/s

=> VG = 0.05 m/s

Q97. Answer: (d) velocity

CONCEPT:

• Uniform motion: The motion of an object in which the object travels in a straight line and its velocity remains constant along that line as it covers equal distances in equal intervals of time, irrespective of the duration of the time.

• Example: Ball moving on a frictionless surface with constant velocity.

• Non-uniform motion: The motion of an object in which the object travels with varied speed and it does not cover the same distance in equal time intervals, irrespective of the time interval duration.

• Example: The motion of a train

EXPLANATION:

• During the uniform motion of an object along a straight line, the velocity remains constant with time. Hence option 4 is correct.

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Additional Information

• In the uniform motion, the change in velocity of the object for any time interval is zero. This means in the case of uniform motion, the rate of change of velocity, i.e. acceleration is equal to zero.

Q98. Answer: (c) streamlined

The correct answer is streamlined.

Explanation:

• The penguin's body is adapted for swimming.

• Its body is fusiform (tapered at both ends) and streamlined.

• A penguin has a large head, short neck, and elongated body.

• The legs and webbed feet are set far back on the body, which gives penguins their upright posture on land.

Q99. Answer: (d) None of these

The correct answer is None of these

Key Points

• Maverick Viñales Ruiz won the 2017 Qatar Motorcycle Grand Prix MotoGP. (Hence statement A is incorrect)

• Alexander Norén won the Golf 2017 BMW PGA Championship. (Hence statement A is incorrect)

• Valtteri Bottas won the Formula One 2017 Abu Dhabi Grand Prix. (Hence statement A is incorrect)

Q100. Answer: (a) Size

The correct answer is Size.

Key Points

• Microsoft Word

• Sometimes called Winword, MS Word, or Word, Microsoft Word is a word processor published by Microsoft. It is one of the office productivity applications included in the Microsoft Office suite. Originally developed by Charles Simonyi and Richard Brodie, it was first released in 1983.

• Microsoft Word is available for Microsoft Windows, Apple macOS, Android, and Apple iOS. It can also run on the Linux operating system using WINE.

• Microsoft Word allows you to create professional-quality documents, reports, letters, and résumés. Unlike a plain text editor, Microsoft Word has features including spell check, grammar check, text and font formatting, HTML support, image support, advanced page layout, and more.

• Below is an overview of a Microsoft Word 2010 document.

Application Software Type	Examples
Word processing software	MS Word, WordPad, and Notepad
Database software	Oracle, MS Access, etc
Presentation Software	Microsoft PowerPoint, Keynotes
Multimedia software	Real Player, Media Player
Application Suites	OpenOffice, Microsoft Office

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