SSC CHSL Previous Paper 9 (Held On: 7 March 2018 Shift 1) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) obsesive
(b) obsessiv
(c) obsessive
(d) obsesiv

Q2. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

The introduction of

A. -had ruled from the time man learned to cook food

B-. meant the end of firewood, which

C-. the kerosene stove also

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

Q3. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

It (has been pointed) out that people’s Facebook postings are not a real reflections of who they are.

(a) has being pointed
(b) has been point
(c) has been pointing
(d) no improvement

Q4. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

The base of the cooking vessels would have a thick coating of carbon deposit and (clean) it was a pain.

(a) cleaned
(b) cleans
(c) cleaning
(d) no improvement

Q5. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Eager or quick to argue or fight; aggressively defiant

(a) Docile
(b) Truculent
(c) Pliable

(d) Pliant

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

A group of people leading the way in new developments or ideas

(a) Sycophant
(b) Stooge
(c) Zealot
(d) Vanguard

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

All thumbs

(a) Permission from the concerned people to go ahead.
(b) A crowd cheering their favourite team.
(c) Physically awkward, especially with respect to the hands.
(d) An illiterate person who cannot sign his name.

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

Be left stranded

(a) Unable to leave somewhere because of a problem.
(b) Suffer a bad hair day.
(c) Having only a single thing to hold on to save yourself.
(d) To be the last person on whom the blame falls on eventually.

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.

Photography is the ____ we can get to stopping time. The camera is our pause button, the cork we use to stop time from running out. And the photo album is the most potent time machine ever __, one that transports you to a curated past where everything exists ____ you choose to remember it, one that lets you revisit ____ just people and places and ages, but the hidden crannies of _____ own memory and the strange landscape of emotions that lies beyond.

Q9. but the hidden crannies of _____ own memory and

(a) your
(b) you
(c) yourself
(d) yourselves

Q10. lets you revisit _____ just people

(a) nor
(b) none
(c) no
(d) not

Q11. everything exists _____ you choose to

(a) so
(b) to
(c) at
(d) as

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Q12. Time machine ever _____, one that transports

(a) build
(b) built
(c) building
(d) builds

Q13. Photography is the _____ we can get to stopping time.

(a) close
(b) closest
(c) closeness
(d) closely

Q14. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Laison
(b) Liaison
(c) Lieison
(d) Liaisone

Q15. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

Tina said to him, “Please wait here till I return.”

(a) Tina asked him to stay there.
(b) Tina requested him to wait there till she returned.
(c) Tina request him to wait until she comes.
(d) Tina says he should wait there till her returned.

Q16. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

The girl caught the kite.

(a) The kite was caught by the girl.
(b) The kite is caught by the girl
(c) The kite was catch by the girl.
(d) The kite is catch by the girl.

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

The art of

P : efforts and practice

Q : fruit of persistent

R : effective presentation is the

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

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

Relationship

(a) Affinity
(b) Member
(c) Leaning
(d) Opposition

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Q19. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Sordid

(a) Dirty
(b) Black
(c) Corrupt
(d) Reputable

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

Quiescent

(a) Dull
(b) Questionable
(c) Bright
(d) Alive

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

Turbulence

(a) Agitation
(b) Calmness
(c) Repose
(d) Stillness

Q22. 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.

Corruption is an evil generally more _____ in the underdeveloped and developing countries of the world.

(a) reluctant
(b) distant
(c) rampant
(d) extravagant

Q23. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

_____ worst is yet to come.

(a) The
(b) An
(c) A
(d) None

Q24. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Every effect we see, hear or speak in our outside (1)/ or physical world has a specific cause that (2)/ have its origin in the inner or mental world. (3)/ No error (4)

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

Q25. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Photosynthesis is (1)/possible (2)/because of sun. (3)/No error (4)

(a) 1
(b) 2

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(c) 3
(d) 4

GENERAL INTELLIGENCE

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

Rectangle : Four :: ? : ?

(a) Square : Seven
(b) Polygon : Two
(c) Circle : Six
(d) Triangle : Three

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

13 : 17 :: ? : ?

(a) 17 : 24
(b) 19 : 23
(c) 19 : 27
(d) 21 : 23

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

EFG : GHI :: ? : ?

(a) RFH : THJ
(b) NPS : OQT
(c) LAN : JYL
(d) TOP : QLM

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

(a) Length – Metre
(b) Temperature – Kelvin
(c) Ampere – Current
(d) Work – Joule

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

(a) 12 – 121
(b) 14 – 169
(c) 16 – 215
(d) 18 – 289

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

(a) HFD
(b) SQO
(c) ZXV
(d) BZU

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

1. Bride
2. Boastful
3. Blizzard
4. Biology
5. Brilliant

(a) 15234
(b) 54321

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(c) 43215
(d) 32145

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

12, 15, 19, 24, 30, ?

(a) 38
(b) 37
(c) 39
(d) 40

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

A, D, H, M,?

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

Q35. In a row, there are 8 girls between Aruna and Bimla and Aruna is the first girl in the row. There are 5 girls between Bimla and Chetna. If there are 14 girls after Chetna, then what is the minimum number of girls in the row?

(a) 13
(b) 15
(c) 18
(d) 16

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

Precious

(a) Pire
(b) Rise
(c) Rose
(d) Rest

Q37. In a certain code language, “RINKS” is written as “SKOMT”. How is “FRIED” written in that code language?

(a) PQGHJ
(b) HUKHD
(c) KOTGJ
(d) GTJGE

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

5 ÷ 4 -- 10 + 7 × 16 = ?

(a) 50
(b) 5
(c) 9
(d) 11

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

18 × 12 -- 3 ÷ 10 + 2 = 64

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

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Q40. If 9 # 3 = 120, 3 # 4 = 70 and 2 # 9 = 110, then find the value of 5 # 2 = ?

(a) 40
(b) 50
(c) 70
(d) 8

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

QPPPPPP, QQPPPPP, QQQPPPP, QQQQPPP, QQQQQPP, _____.

(a) QQQQQQP
(b) PPPPPPP
(c) QPPPPPP
(d) QQPPPPP

Q42. A pilot takes off and flies 35 km West then, it turns South and flies 15 km, then it turns to its left and flies 20 km, then it turns north and flies 15 km. Where is the plane now with respect to its starting position?

(a) 55 km West
(b) 15 km East
(c) 15 km West
(d) 55 km East

Q43. In the question, two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: No rings are bangles

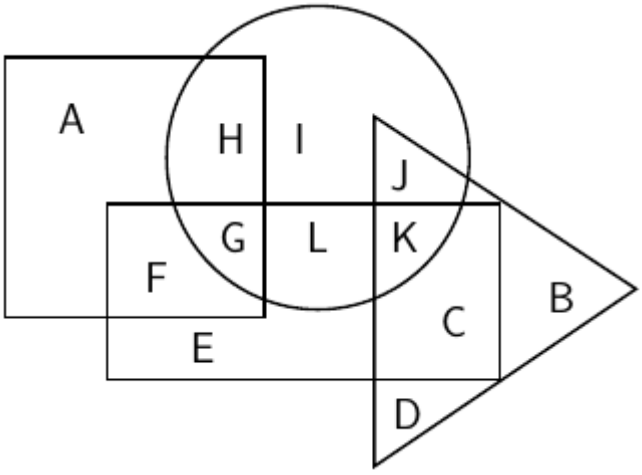
Statement II: All gold are rings

Conclusion I: No bangles are gold

Conclusion II: Some rings are gold

(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 Dentists, circle represents Bloggers, triangle represents Comedians and square represents Boxers. Which set of letters represents Dentists who are only either Bloggers or Comedians?



(a) LKCB
(b) LC
(c) FEC
(d) K

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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.

ANT, CPV, ERX, ?, IVB

(a) GTZ
(b) FSY
(c) GTY
(d) FSZ

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

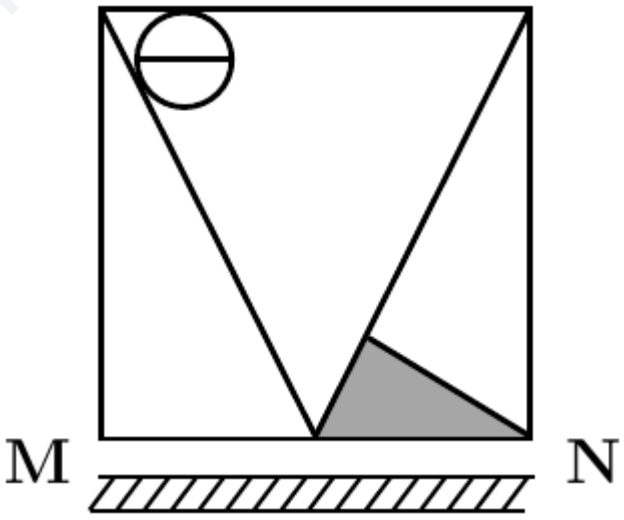
43, 44, 46, 47, 49, 50, ?

(a) 54
(b) 53
(c) 51
(d) 52

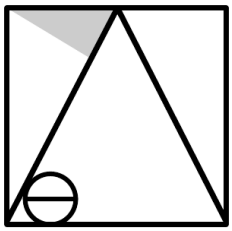
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (10, 12, 14)
(b) (12, 14, 16)
(c) (18, 20, 22)
(d) (24, 26, 30)

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

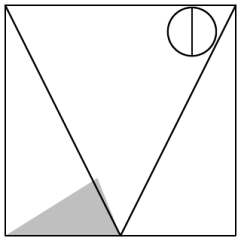


(a)

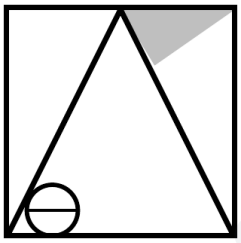


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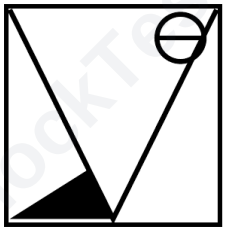
(b)



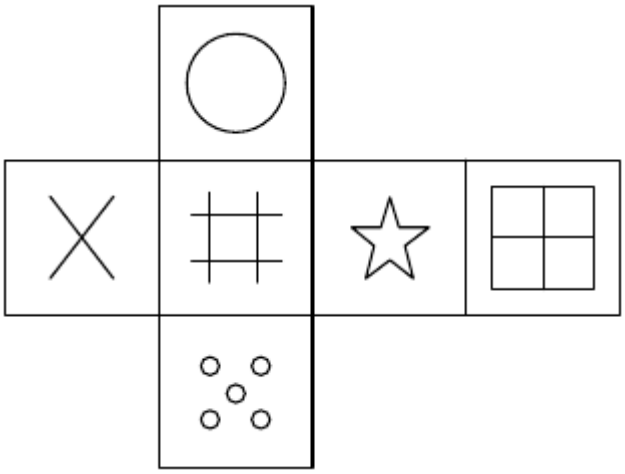
(c)



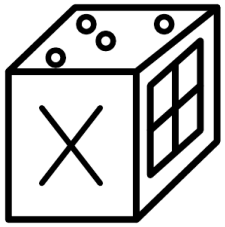
(d)



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

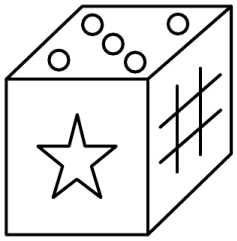


(a)

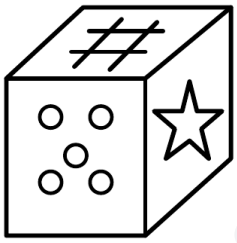


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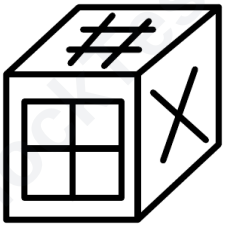
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in 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 the matrices. The column 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, 'B' can be represented by 24, 31 etc and 'X' can be represented by 56, 59 etc. similarly, you have to identify the set for the word 'AXES'.

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

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

(a) 44, 85, 21, 65
(b) 44, 98, 40, 75
(c) 10, 97, 31, 67

(d) 23, 56, 11, 79

QUANTITATIVE APTITUDE

Q51. Convert the 0.0068 in to vulgar fraction.

(a) 7/1250
(b) 17/2500
(c) 17/5000
(d) 7/1750

Q52. How many 3-digit numbers are completely divided by 4?

(a) 225
(b) 224
(c) 223
(d) 222

Q53. There are two buckets, smaller bucket can hold only 3/5th of the water as compared to the larger bucket. If 6,000 buckets of larger capacity are needed to fill a pond. Then how many smaller capacity buckets are needed to fill the same pond?

(a) 8000
(b) 10000
(c) 12000
(d) 15000

Q54. What is the value of the expression when $a^3 - 5 + 128/16a$, a = 2?

(a) 2
(b) 5
(c) 7
(d) 8

Q55. The height of the equilateral triangle is 9 cm. What is the radius (in cm) of the circle circumscribing the three vertices?

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

Q56. The area of a circular cricket ground is 24.64 hectares. Find the cost of making rope boundary at the rate of Rs. 5.40 per metre.

(a) Rs. 9,600
(b) Rs. 9,504
(c) Rs. 9,802
(d) Rs. 9,876

Q57. 90% of X = 40% of Y and Y = a% of X. What is the value of a?

(a) 225
(b) 125
(c) 2.25
(d) 1.25

Q58. The sum of three numbers is 162. If the ratio of the first number to the second number is 5 : 7 and that of the second number to the third number is 5 : 3, then what is the second number?

(a) 35
(b) 70
(c) 80

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(d) 40

Q59. S, T and U started a business by investing Rs. 4200, Rs. 6300 and Rs. 8400 respectively. S left the business after 3 months, T left 6 months after the business had started and U remained in the business till one year. At the end of one year the total profit is Rs. 6000. What is the U's share (in Rs) in the profit?

(a) 4200
(b) 3200
(c) 4000
(d) 3600

Q60. The average of 6 consecutive integers is 15/2. What is the average of last three integers?

(a) 8
(b) 9
(c) 17/2
(d) 7

Q61. Simple interest on a sum for six months at 5% per annum is Rs. 65.5. What is the value (in Rs.) of sum?

(a) 2600
(b) 2620
(c) 1320
(d) 2880

Q62. The difference between cost price and selling price is Rs. 221. If profit percentage is 17%, then what is the selling price (in Rs.)?

(a) 1079
(b) 1300
(c) 1521
(d) 1724

Q63. Marked price of an article is Rs 3600 and selling price is Rs 3132. What is the discount percentage?

(a) 12%
(b) 13%
(c) 17.21%
(d) 14.94%

Q64. What is that least number that must be added to the product 684 × 686 to make it a perfect square?

(a) 685
(b) 1
(c) 684
(d) 686

Q65. Sumit and Amit undertook a work for Rs 7200. Sumit alone can do the work in 5 days and Amit alone can do the work in 4 days. If they work together, then what will be the difference (in Rs.) in the amount they receive?

(a) 800
(b) 1600
(c) 1200
(d) 1400

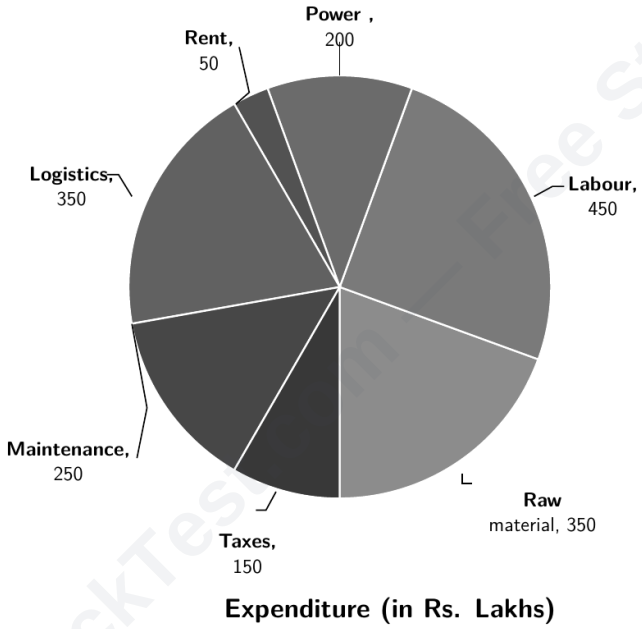
Q66. A man covers a certain distance by a train running at a speed of 50 km/hr and he covers the same distance back by walking at a speed of 5 km/hr. If his whole journey took 5 hours 30 minutes, then what was the distance (in km) of one side of the journey?

(a) 30
(b) 25
(c) 20
(d) 18

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Directions

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



Q67. The second highest expenditure is for which item?

(a) Labour
(b) Power
(c) Raw material
(d) Rent

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

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

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

(a) 40
(b) 20
(c) 60
(d) 30

Q70. Expenditure on Labour and Raw material constitute what percent of total expenditure?

(a) 33.30%
(b) 44.44%
(c) 40%
(d) 30%

Q71. The length of the diagonal and the breadth of a rectangle are 25 cm and 7 cm respectively. Find its perimeter (in cm).

(a) 124
(b) 41
(c) 82
(d) 62

Q72. If a regular polygon has 6 sides then the measure of its interior angle is greater than the measure of its exterior angle by how many degrees?

(a) 90°
(b) 100°
(c) 60°
(d) 108°

Q73. The curved surface area and the slant height of a right circular cone are 99 cm² and 9 cm respectively. Find its diameter (in cm).

(a) 3.5
(b) 7
(c) 14
(d) 10.5

Q74. What is the value of (1/3 - cot60°)?

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

Q75. ΔXYZ is right angled at Y. If tanX = 15/8, then what is the value of sinZ?

(a) 15/17
(b) 17/8
(c) 17/15
(d) 8/17

GENERAL AWARENESS

Q76. Which of the following best defines free trade?

(a) Imports are discouraged
(b) There are no restrictions on exports and imports
(c) There are no duties levied on export
(d) Imported goods are made duty free

Q77. Non-Tax revenue can be increased by improving the working of _____.

(a) Commercial Irrigation Projects
(b) State Road Transport Corporation
(c) Electricity Boards
(d) No option is correct.

Q78. Which ruler of the Vijayanagar empire was the friend of the Portuguese Governor Albuquerque?

(a) Devaraya II
(b) Narsingh Raya
(c) Krishna Deva Raya
(d) Venkat II

Q79. A sector between the two longitudinal lines is known by which of the following name?

(a) Belt
(b) Gore
(c) Time block
(d) Time box

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Q80. Which Indian territory was formerly known as ‘Black Water’ before Independence?

(a) Lakshadweep Group
(b) Andaman and Nicobar Islands
(c) Diu
(d) Aliabetand Khadiabet

Q81. Sitara Devi is associated with _____.

(a) Manipuri dance
(b) Kathak dance
(c) Garba dance
(d) Hindustani Vocal

Q82. What was the name of the 11^(th) edition of bilateral naval exercise conducted in December 2017 by India and Oman near Muscat?

(a) Naseem Al Bahr
(b) Dariyadili
(c) Joha-al-Noor
(d) Mohabbatein

Q83. Which actor won the best actor award in the 64^(th) National Film Awards?

(a) Manoj Joshi
(b) Akshay Kumar
(c) Aamir Khan
(d) Manoj Bajpayee

Q84. What is NOT right about Bangladesh’s flag?

(a) It consists of a red circle in the middle
(b) It has a green background
(c) The length to width ratio of the rectangle is 4 : 3
(d) The middle circle has a radius of one fifth of the length

Q85. The oxygen molecule is _____.

(a) Monoatomic
(b) Diatomic
(c) Triatomic
(d) Polyatomic

Q86. Which of the following statement(s) is/are CORRECT?

I. Acids are sour in taste and generate H+ ions.
II. Acids are sour in taste and generate OH- ions.
III. Bases are bitter in taste and generate OH- ions.

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

Q87. In India, who among the following is also known as ‘the guardian of the public purse’?

(a) Comptroller and Auditor General of India
(b) Prime Minister of India
(c) Chief Justice of India
(d) Ministry of law and Justice

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Q88. Which among the following is/are All India Service(s)?

I. Indian Administrative Service

II. Indian Police Service

III. Indian Forest Service

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

Q89. _____ is the source of energy and materials for human beings.

(a) Water
(b) Sunlight
(c) Food
(d) Gas

Q90. The somatosensory receptors in human beings detect _____.

(a) taste
(b) smell
(c) touch
(d) hear

Q91. To make child labour free society, PENCIL portal was launched in September 2017 in India. What does 'P' stand for in 'PENCIL'?

(a) Partnership
(b) Platform
(c) Podium
(d) People

Q92. Which vaccine company has developed Typbar Typhoid Conjugate vaccine that has received pre – qualification from the World Health Organisation (WHO) for global use?

(a) Panacea Biotech
(b) Bharat Biotech
(c) Biocon
(d) Bharat Serums and Vaccines

Q93. As per the data released by the Income Tax Department in December 2017, how much percent of total population paid income tax in the assessment year 2015-16?

(a) 1.7
(b) 5.7
(c) 9.7
(d) 11.7

Q94. On 20 July 2017, Lok Sabha passed IIIT PPP Bill, 2017. The Bill seeks to allow 15 IIITs established on a PPP model to grant degrees. What does 'PPP' stand for?

(a) Public Private Placement
(b) Public Private Partnership
(c) Public Private Pickup
(d) Public Private Policy

Q95. Find the resistance (in mega Ω) of a wire of length 8 m, cross sectional area 2 cm^2 and made of a material of resistivity 120 Ω m.

(a) 1920
(b) 4.8
(c) 2.4
(d) 960

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Q96. The slope of a Distance Time graph shows _____.

(a) acceleration
(b) momentum
(c) mass
(d) speed

Q97. Air expands when it _____.

(a) is cooled
(b) is heated
(c) is under pressure
(d) becomes more humid

Q98. Which of the statements given below are correct?

A) In 2017, Wes Morgan captained the Premier League team Leicester City.
B) In 2017, Romelu Lukaku played for the Premier League team Manchester United.
C) France hosted the Tennis 2017 Davis Cup Final.

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

Q99. In Microsoft Word, _____ setting allows us to align the text at a particular point, or to create a tabular layout.

(a) Indentation
(b) Bullets
(c) Numbering
(d) Tabs

Q100. Which of the following was not done during the time of Lord Curzon?

(a) Partition of Bengal
(b) Universities Act
(c) Establishment of the Famine Commission
(d) Formation of Hunter Commission

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) obsessive

The solution is in Hindi. Read it online.

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Q2. Answer: (c) CBA

The first sentence in the sequence should tell us "the introduction of what?" This is only given in sentence C. So it is the first sentence. It should be followed by B and A respectively. No other sequence can be logical or grammatically correct. So option 3 is correct.

Q3. Answer: (d) no improvement

The sentence is absolutely correct. There is no improvement required. So option 4 is correct.

Q4. Answer: (c) cleaning

We cab't use 'cleaned' or 'cleans' without helping verbs in this sentence. The sentence is such that even if we used helping verbs it wouldn't make sense with these two words. The correct form is 'cleaning.' Using +ing verb here doesn't mean that the action is taking place. It implies that "it will be painful to clean cooking vessels with carbon deposits." So option 3 is correct.

Q5. Answer: (b) Truculent

The correct answer is Truculent

Key Points

• Meaning of the options given:

• Truculent: Eager or quick to argue or fight; aggressively defiant

Example: die-hard fans who became truculent and violent after their team's loss

• Docile: ready to accept control or instruction; submissive.

Example: a docile young pony that went wherever it was led

• Pliable: easily bent; flexible.

Example: the wooden strips become more pliable if they are first soaked in water

• Pliant: easily influenced or directed; yielding.

Example: a pliant branch bent low with the weight of ripe fruit.

• **Thus, the correct answer is 'Truculent'.

Q6. Answer: (d) Vanguard

The correct answer is Vanguard

Key Points

• Meaning of the words given in the options are:

• Vanguard: A group of people leading the way in new developments or ideas.

Example: a style of jazz that the vanguard quickly recognized as new and exciting.

• Sycophant: a person who acts obsequiously towards someone important in order to gain advantage.

Example: Be careful not to mistake sycophants for true friends.

• Stooge: a subordinate used by another to do unpleasant routine work.

Example: The newly appointed mayor is widely regarded as a government stooge.

• Zealot: a person who is fanatical and uncompromising in pursuit of their religious, political, or other ideals.

Example: a religious zealot

• Thus, the correct answer is 'Vanguard'.

Q7. Answer: (c) Physically awkward, especially with respect to the hands.

The correct answer is Physically awkward, especially with respect to the hands.

Key Points

• All thumbs: very awkward and clumsy, especially with one's hands.

Example: Mary is all thumbs when it comes to gardening.

• Synonyms: awkward, butterfingered, cack-handed, clumsy, graceless, ham-fisted, left-handed, maladroit, unhandy

Q8. Answer: (a) Unable to leave somewhere because of a problem.

The correct answer is Unable to leave somewhere because of a problem.

Key Points

• Be left stranded- Being "left stranded" typically means being left in a difficult situation without assistance or support, often unable to proceed with one's plans.

• Example: He left me stranded in town with no car and no money for a bus.

• Thus, out of all given options option 1 is correct and therefore the answer.

Q9. Answer: (a) your

The correct word here is "your." The others will male the sentence meaningless. So option 1 is correct.

Q10. Answer: (d) not

The correct word is "not." No other options can be logical.

So option 4 is correct.

Q11. Answer: (d) as

The correct word here is 'as.' It is used to mean 'used to indicate that something happens during the time when something else is taking place or." So option 4 is correct. So option 4 is correct.

Q12. Answer: (b) built

The word built is correct. Build, builds and building are present tense or continuous tense. We know that cameras were invented long ago. So option 2 i correct.

Q13. Answer: (b) closest

The correct word is 'closest.' When we use the definite article 'the' it means that there is nothing else like it. 'Closest' is the superlative degree, which means that there nothing close than this. So option 2 is the correct answer.

Q14. Answer: (b) Liaison

The correct answer is Liaison

Key Points

• Liaison is the correct spelling. It means "communication or cooperation which facilitates a close working relationship between people or organizations."

• For example: the strong liaison between the parents and teachers is based on the fact that both have the students' best interests at heart.

• Synonyms: affiliation, alliance, association, collaboration, confederation, connection, cooperation, hookup, linkup, partnership, relation, relationship, tie-up, union

Q15. Answer: (b) Tina requested him to wait there till she returned.

The correct is option 2) i.e. Tina requested him to wait there till she returned.

Explanation:

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

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

• Reporting verb 'said to' is changed into 'requested'; as 'please' is given in 'Reported Speech'

• connector 'that' is used in place of commas.

• Tense of reported speech will be changed from Present to past Tense (in above sentence- 'return' changes into 'returned')

• personal Pronouns of reported speech are changed as per subject and object of reporting verb. Here, the first person- 'I' will change into 'She' as per Subject - 'Tina'.

Indirect speech:

• By following these steps we get the final sentence: " Tina requested him to wait there till she returned.."

Mistake Point:

• We may think that 'wait' is a Verb here, so it should be changed into 'waited'

• Always do remember if the 'Reporting verb' is in 'Past Tense' the 'Tense' of 'Indirect speech' will be changed.

Q16. Answer: (a) The kite was caught by the girl.

The correct answer is The kite was caught by the girl.

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.

• The given sentence is in the active voice and 'The girl' is the subject and 'the kite' is the object.

• When we convert this sentence into passive voice, the subject 'The girl' becomes the object, the object 'the kite' becomes the subject.

• The active format "V2 (caught)" should be converted into the passive format "was + V3 "

• This is the active and passive voice rule for the past simple tense.

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/am/are 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
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

Q17. Answer: (c) RQP

The correct sequence is "RQP." Here the sentence wants to convey 'how an effective presentation can be delivered." It can be conveyed only by the sequence RQP. So option 3 is correct.

Q18. Answer: (d) Opposition

Relationship means "association." So the opposite word must be "opposition" which means 'resistance or dissent, expressed in action or argument.'

So option 4 is correct.

All the other words more or less denote 'relationship'.

Q19. Answer: (d) Reputable

Sordid means "involving immoral or dishonourable actions and motives; arousing moral distaste and contempt." So the opposite word is definitely "reputable" which means 'having a good reputation.' So option 4 is correct.

Dirty, Black and corrupt are all synonyms if the given word.

Q20. Answer: (a) Dull

Quiescent means "in a state or period of inactivity or dormancy." Dull is the perfect synonym for this which means "lacking interest or excitement."

So option 1 is correct.

Questionable: doubtful

Bright: intelligent and quick-witted.

Alive: alert and active; animated.

Q21. Answer: (a) Agitation

The correct answer is Agitation

Key Points

• Meaning of the words given:

• Turbulence: a state of violence, confusion, and disorder

Example: There was much turbulence in their town after a string of tragedies.

• Agitation: an uneasy state of mind usually over the possibility of an anticipated misfortune or trouble

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Example: experienced a great deal of agitation over whether she had an appropriate dress for her husband's inauguration

• Calmness: a state of freedom from storm or disturbance

Example: Despite the calmness of his voice, I could tell he was angry.

• Repose: a state of freedom from storm or disturbance

Example: enjoyed the repose of a serene summer evening

• Stillness: a state of freedom from storm or disturbance

• So option 1 is correct. All the other words are exactly opposite to this meaning.

Q22. Answer: (c) rampant

The correct word here is "rampant." It means "unchecked and widespread." So option 3 is correct.

• reluctant: unwilling and hesitant; disinclined.

• distant: far away in space or time.

• extravagant: lacking restraint in spending money or using resources.

Q23. Answer: (a) The

The correct answer is 'The'

Key Points

• The worst is the Superlative degree.

• There is nothing more than a Superlative degree. So we must use the definite article "the" before worst.

• Hence, A and An are not the correct answer.

• Thus, the complete sentence is: The worst is yet to come.

Additional Information

• We do not need to add the definite article if the noun is possessive:

Example:

• That’s his best

• He’s my most diligent

• The is not used with superlatives in predicative position, when we compare the same person or thing in different situations.

Example: He is nicest in the evenings after he has had a few drinks. (NOT He is the nicest in the evenings …)

Q24. Answer: (c) 3

The correct answer is 3

Key Points

• If a subject and the verb are joined by a relative pronoun, the verb used will agree with the antecedent to the relative pronoun.

Example: She is one of the noblest women that has ever lived on the earth. (wrong)

She is one of the noblest women that have ever lived on the earth. (right)

• Cause is singular therefore the verb must also be singular. Therefore we must use 'has' instead of 'have.' So option 3 is the correct answer.

Thus, the correct answer is: Every effect we see, hear or speak in our outside or physical world has a specific cause that has its origin in the inner or mental world.

Q25. Answer: (c) 3

The correct answer is 3

Key Points

• 'the sun' should be there in place of 'sun'

• The definite article (the) is used in front of nouns that are only one in nature like sun, moon, earth, etc.

• Example:

the North pole, the South pole, the earth, the world, the universe, the sun, the moon, the sky, the air, the weather, the wind, the rain, the sea, the planet

• Thus, the correct sentence is: Photosynthesis is possible because of the sun.

Q26. Answer: (d) Triangle : Three

A rectangle has four sides.

Similarly,

A triangle has three sides.

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Hence, the correct answer is ‘Triangle: Three’.

Q27. Answer: (b) 19 : 23

The pattern followed here is,

Logic: First number + 4 = Second number

13 + 4 = 17

Similarly,

19 + 4 = 23

Hence, the correct answer is " 23".

Q28. Answer: (a) RFH : THJ

The pattern followed here is,

EFG : GHI →

Checking all options

1) RFH : THJ → Pattern followed

2) NPS : OQT → Pattern doesn't followed

3) LAN : JYL → Pattern doesn't followed

4) TOP : QLM → Pattern doesn't followed

Hence, the correct answer is "RFH : THJ".

Q29. Answer: (c) Ampere – Current

Here parameters and their respective S.I units are given.

But in option 3, the S.I. unit and its parameter are given. (order is changed)

Hence, the correct answer is "Ampere – Current".

Q30. Answer: (c) 16 – 215

The pattern followed here is,

$(12 - 1)^2 = (11)^2 = 121$

$(14 - 1)^2 = (13)^2 = 169$

$(16 - 1)^2 = (15)^2 = 225 \neq 215$

$(18 - 1)^2 = (17)^2 = 289$

Hence, 16 – 215 is the odd one out.

Q31. Answer: (d) BZU

The pattern followed here is,

1) HFD →

2) SQO →

3) ZXV →

5) BZU →

Hence, the correct answer is ‘BZU’.

Q32. Answer: (c) 43215

As per the dictionary order,

4) Biology

3) Blizzard

2) Boastful

1) Brides

5) Brilliant

Hence, the correct answer is "43215".

Q33. Answer: (b) 37

The pattern followed here is,

Hence,the correct answer is "37".

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Q34. Answer: (b) S

The table shows the place value of the alphabet from A to Z and Z to A.

The pattern followed here is:

Hence, the correct answer is "S".

Q35. Answer: (c) 18

1) In a row, there are 8 girls between Aruna and Bimla. Aruna is the first girl in a row.

2) There are 5 girls between Bimla and Chetna.

3) There are 14 girls after Chetna.

Adding sentences 1,2, and 3 we get

So, Aruna + 2 + Chetna + 14 = 18 girls.

Hence, the correct answer is "18".

we need the minimum number of girls in the row and for that, we need to place Chetna on the left of Bimla.

Q36. Answer: (d) Rest

1) Pire: PRECIOUS → word can be formed.

2) Rise: PRECIOUS → word can be formed.

3) Rose: PRECIOUS → word can be formed.

4) Rest: 'T' is not present in PRECIOUS, hence word cannot be formed.

Hence, the correct answer is "Rest".

Q37. Answer: (d) GTJGE

The pattern followed here is:

RINKS → SKOMT

Similarly,

FRIED → GTJGE

Hence,the correct answer is "GTJGE".

Q38. Answer: (d) 11

As per the given information,

SYMBOLS	**×**	**÷**	**•**	**•**
CODES	•	×	÷	•

Given: 5 ÷ 4 -- 10 + 7 × 16

Changing symbols as per the given information

We get,

= 5 x 4 ÷ 10 - 7 + 16

Using the BODMAS rule,

= 5 x 4 ÷ 10 - 7 + 16

= 5 x 0.4 - 7 + 16

= 2 - 7 + 16

= 11

Hence, the correct answer is "11".

Q39. Answer: (c) ÷ and -

Changing symbols as per the given options,

Given Equation:18 × 12 - 3 ÷ 10 + 2

1) By changing signs + and × we get

LHS = 18 + 12 - 3 ÷ 10 × 2

= 18 + 12 - 0.3 × 2

= 30 - 0.6

→ 30 - 0.6 ≠ RHS

2) By changing signs + and ÷ we get

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LHS = 18 × 12 - 3 + 10 ÷ 2
= 18 × 12 - 3 + 5
= 216 - 3 + 5
→ 216 - 3 + 5 ≠ RHS
3) By changing signs ÷ and -- we get
LHS = 18 × 12 ÷ 3 - 10 + 2
= 18 × 4 - 10 + 2
= 72 - 10 + 2
= 74 - 10
→ 64 = RHS
4) By changing signs - and + we get
LHS = 18 × 12 + 3 ÷ 10 - 2
= 18 × 12 + 0.3 - 2
= 216 + 0.3 - 2
→ 216.3 - 2 ≠ RHS
Hence, the correct answer is "÷ and --".

Q40. Answer: (c) 70

The pattern followed here is,
→ +
9 # 3 = 9 + 3 = 12; 12 × 10 = 120;
3 # 4 = 3 + 4 = 7; 7 × 10 = 70;
2 # 9 = 2 + 9 = 11; 11 × 10 = 110;
Similarly,
5 # 2 = 5 + 2 = 7; 7 × 10 = 70
Hence, the correct answer is "70".

Q41. Answer: (a) QQQQQQP

The pattern followed here is,

Q	**P**	**P**	**P**	**P**	**P**	**P**
Q	Q	P	P	P	P	P
Q	Q	Q	P	P	P	P
Q	Q	Q	Q	P	P	P
Q	Q	Q	Q	Q	P	P
Q	Q	Q	Q	Q	Q	P

Hence,the correct answer is ‘QQQQQQP'.

Q42. Answer: (c) 15 km West

As per the given information,
Hence, the correct answer is "15 km West".

Q43. Answer: (c) Both conclusions I and II follow

The least possible diagram of this question is as follows,
Conclusion I: No bangles are gold → Follows (In diagram shows there is no relation between Bangles and gold)
Conclusion II: Some rings are gold → Follows (In diagram shows all gold are rings means some rings are gold)
Hence, the correct answer is "Both conclusions I and II follow".

Q44. Answer: (b) LC

Rectangle represents Dentists
Circle represents Bloggers
Triangle represents Comedian

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Square represents Boxers

Set of letters represents Dentists who are either Bloggers or Comedians are L and C.

Hence, the correct answer is "LC".

Q45. Answer: (a) GTZ

The pattern followed here is,

Hence,the correct answer is ‘GTZ’.

Q46. Answer: (d) 52

The pattern followed here is,

Hence, the correct answer is "52".

Alternate Method The pattern followed here is:

Q47. Answer: (d) (24, 26, 30)

The pattern followed here is,

Logic: First number + 2 = Second number

Second number + 2 = Third number

1) (10, 12, 14) = 10 + 2 = 12; 12 + 2 = 14

2) (12, 14, 16) = 12 + 2 = 14; 14 + 2 = 16

3) (18, 20, 22) = 18 + 2 = 20; 20 + 2 = 22

4) (24, 26, 30) = 24 + 2 = 26; 26 + 4 = 30

Hence, the correct answer is "(24, 26, 30)".

Q48. Answer: (c) [figure]

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

Hence the correct answer is "Option 3".

Additional Information

• The mirror always forms the laterally inverted images, i.e. left changes to right and vice versa.

• The reflection of an object in the water is called its water image.

• The water image of an object in the water is always vertically inverted, i.e. Upside changes to down and vice versa.

• The water image is the mirror image in case if the mirror is placed horizontally below the object.

Q49. Answer: (d) [figure]

As per the given information, the possible cube formation is shown below,

Hence, the correct answer is "Option 4".

Q50. Answer: (d) 23, 56, 11, 79

Checking each option as per the table given in the question, we get

1) 44, 85, 21, 65 → D, S, C, V

2) 44, 98, 40, 75 → D, R, L, U

3) 10, 97, 31, 67 → F, Y, B, P

4) 23, 56, 11, 79 → A, X, E, S

Hence, the correct answer is '23, 56, 11, 79'

Q51. Answer: (b) 17/2500

Concept used :

Vulgar fraction: A fraction that can be written in the form of a/b, where a and b are integers. For example - 2/21, 1/2, 4/9 etc.

Calculations:

0.0068

=> 68/10000

=> 17/2500

Hence, The correct answer is "17/2500".

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Q52. Answer: (a) 225

Concept used:

Divisibility rule of 4:

If the last two - digit of a number is divisible by 4, then the given no. will be divisible by 4.

Calculation:

3 digit numbers which are divisible by 4 are 100, 104, 108, ….. 996

Let there be n terms in this series and the n^(th) term is 996

So, n^(th)term = a + (n – 1)d

Where, a = 100 and d = 4

=> 996 = 100 + (n – 1) × 4

=> 896 = (n – 1) × 4

=> n – 1 = 896/4 = 224

=> n = 225

Thus, there are 225 3-digit numbers which are completely divisible by 4.

Hence, the correct answer is, "225".

Alternate MethodTotal numbers = 1000 - 100 = 900

The total numbers divisible by 4 = 900/4 = 225

Therefore The 225 are the 3-digit numbers which are completely divisible by 4.

Q53. Answer: (b) 10000

Given:

Capacity of smaller bucket = 3/5 × of larger bucket

No. of larger bucket needed to fill a pond = 6,000

Calculation:

Let Small bucket is S and Large bucket is L.

S = 3/5 × L

=> S : L = 3 : 5

Efficiency of Large bucket = 5 units

Efficiency of Small bucket = 3 units

Capacity of pond = Efficiency of large bucket × No. of buckets needed

=> 5 × 6000 = 30000 units

Therefore No. of small capacity buckets needed to fill pond = 30000/3 = 10000

Q54. Answer: (c) 7

Calculation:

Putting a = 2 in the given eq, we get

$a^3 - 5 + 128/16a = 2^3 - 5 + 128/(16 \times 2) = 8-5 + 4 = 7$

Q55. Answer: (b) 6

Given:

Height of equilateral triangle = 9 cm

Formula used:

If ΔABC is an equilateral triangle, then

Circumradius = side/√3

Height of an equilateral triangle = (√3/2)a

where a → side of the triangle

Calculation:

=> (√3)/2 × a = 9 cm

=> a = 18/(√ 3)cm

Therefore Radius of the circle circumscribing the three vertices of an equilateral triangle

=> a/(√ 3) = (18/(√ 3))/(√ 3) = 18/3 = 6

Q56. Answer: (b) Rs. 9,504

Shortcut TrickThe amount will be divisible by 11 as the the formula of the perimeter.

Only 9504 among the given options is divisible by 11.

Therefore The required cost is Rs. 9504.

Traditional method:

Area of ground = 24.64 hectares = 24.64 × 10000 = 246400 m^2

=> $\pi r^2 = 246400$

=> $22/7 \times r^2 = 246400$

=> $r^2 = 78400$

=> r = 280 m

Cost of making rope boundary = Circumference of the ground × rate of making boundary

Therefore Cost of making rope boundary = $2\pi r \times 5.40 = 2 \times 22/7 \times 280 \times 5.4$ = Rs. 9504

Q57. Answer: (a) 225

Calculation:

90% of X = 40% of Y

=> $9/10 \times X = 2/5 \times Y$

=> Y/X = 9/4

And, Y = a% of X

=> Y/X = a/100

=> 9/4 = a/100

Therefore a = 900/4 = 225

Q58. Answer: (b) 70

Given:

The sum of three numbers = 162

Ratio of 1st to 2nd no. = 5 : 7

Ratio of 2nd to 3rd no. = 5 : 3

Calculation:

Let three numbers are a, b and c

=> a : b = 5 : 7 = 25 : 35

=> b : c = 5 : 3 = 35 : 21

=> a : b : c = 25 : 35 : 21

a + b + c = 162

=> 25k + 35k + 21k = 162

=> 81k = 162

=> k = 2

Therefore b = 35k = 35 × 2 = 70

Alternate Methoda : b : c

=> 5 : 7 : 7

5 : 5 : 3×

= 25 : 35 : 21

(25 + 35 + 21) units = 162

=> 81 units = 162

=> 1 unit = 2

Second number = 2 × 35

=> 70

Therefore The required number is 70.

Q59. Answer: (c) 4000

Given:

Investment of S, T and U = Rs.4200, Rs.6300 and Rs.8400 respectively

Time of S = 3 Months

Time of T = 6 months

Time of U = 12 months

Total Profit = Rs.6000

Concept used:

Profit = Investment × Time

Calculation:

Ratio of profit

=> Ratio of S's capital × time : Ratio of T's capital × time : Ratio of U's capital × time

=> 4200 × 3 : 6300 × 6 : 8400 × 12

=> 1 : 3 : 8

Therefore U's share = 8/(1 + 3 + 8) × 6000 = 8/12 × 6000 = 4000

Q60. Answer: (b) 9

Given:

Average = 15/2

Calculation:

Let 6 consecutive integers are a, (a + 1), (a + 2), (a + 3), (a + 4), (a + 5).

=> 7.5 = (a + (a + 1) + (a + 2) + (a + 3) + (a + 4) + (a + 5)) /6

=> a + (a + 1) + (a + 2) + (a + 3) + (a + 4) + (a + 5) = 45

=> 6a + 15 = 45

=> a = 5

Therefore Average of last three no. = ((a + 3) + (a + 4) + (a + 5))/3 = ((5 + 3) + (5 + 4) + (5 + 5))/3 = 27/3 = 9

Shortcut TrickIf the integers are consecutive and the number of integers is even.

The middle number of two consecutive number = 7.5 = (8 + 7)/2

Therefore The required numbers are 5,6,7,8,9,10

The last three integers are 8, 9 and 10. We know that the number of integers are odd, the middle integers will be the average of the numbers.

Therefore The required average is 9.

Q61. Answer: (b) 2620

Given:

Interest = Rs. 65.5

Rate of interest = 5%

Time = 6 months

Calculation:

S.I. = (P × R × T) /100

=> 65.5 = (P × 5 × 0.5) /100

=> P = 65500/25

Therefore P = 2620

Alternate Method5% for 6 months = 65.5

=> 5% for 1 year = 131

=> 1% = 131/5 = 26.2

=> 100% = Principal = Rs. 2620

Therefore The principal is Rs. 2620.

Q62. Answer: (c) 1521

Given

S.P – C.P = Rs. 221

Profit% = 17%

Formula used:

Profit % = (S.P – C.P)/C.P × 100

Calculation:

=> 17 = 221/C.P × 100

=> C.P = 22100/17 = Rs. 1300

So, S.P = C.P + 17% of C.P = 1300 × 117/100 = Rs. 1521

Shortcut Trick

Profit = S.P. – C.P. = 221 ≡ 17%

=> 1% = 221/17 = 13

Therefore S.P. = 117% = 117 × 13 = 1521

Q63. Answer: (b) 13%

Given:

MP = Rs. 3600

SP = Rs. 3132

Formula used:

Discount % = (M.P. – S.P.) /(M.P.) × 100

Calculation:

(3600 – 3132)/3600 × 100

Therefore Discount % = 468/3600 × 100 = 13%

Alternate MethodThe difference = 3600 - 3132 = 468

=> Discount% = (468/3600) × 100 = 13%

Q64. Answer: (b) 1

Formula used:

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

Calculation:

$684 \times 686 = 684 \times (684 + 2) = 684^2 + 2 \times 684$

To make it perfect square we should add 1

$=> 684^2 + 2 \times 684 \times 1 + 1^2 = (684 + 1)^2$

So answer is 1.

Q65. Answer: (a) 800

Given:

Time taken by Sumit to complete the work = 5 days

Time taken by Amit to complete the word = 4 days

Calculation:

Let Total work = Lcm of 5 and 4 = 20 units

Efficiency of Sumit = 20/5 = 4 units/day

Efficiency of Amit = 20/4 = 5 units/day

Efficiency of Sumit and Amit together = 4 + 5 = 9 units/day

So, the money will be divided according to their efficiency.

Share of Amit = (4/9) × 7200 = 3200 Rs

Share of Amit = (5/9) × 7200 = 4000 Rs

Therefore Difference of their salary = 4000 - 3200 = Rs. 800

Alternate MethodRatio of amount received will be reciprocal to the ratio of time required to complete the work.

The ratio of amount received = 1/5 : 1/4

=> 4 : 5

Total amount = (4 + 5) units = 7200

=> 1 unit = 7200/9 = Rs. 800

=> The difference in the salary = 1 unit = Rs. 800

The difference in the salary is Rs. 800

Q66. Answer: (b) 25

Given:

Distance cover by the man with 50 km/hr by running

Same distance return back with 5 km/hr by walking

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Whole journey time = 5 hours 30 minutes
Formula used:
Time = Distance/Speed
Calculation:
Let the distance cover by train or walking be D
Total time = 5 hours 30 minutes = 11/2 hours
=> time taken by train + time taken by waking = 11/2
=> D/50 + D/5 = 11/2
=> (D + 10D) /50 = 11/2
=> 11D/50 = 11/2
=> D = 25 km
Therefore The distance cover by train is 25 km
Alternate MethodTotal distance = (X × Y)/(X + Y) [Total time]
Where X and Y are the speed for going and returning.
The distance = (50 × 5)/(50 + 5) × 11/2
=> 250/55 × 11/2
=> 25 km.
Therefore The distance cover by train is 25 km

Q67. Answer: (c) Raw material

Calculation:
As shown in the pie chart, the value of Raw materials and Logistics is 350 which is 2nd highest.
But in option we don't have logistics, so answer = Raw Material

Q68. Answer: (b) 1800

Calculation:
Total expenditure = Expenditure on (Raw Material + Labour + Power + Rent + Logistics + Maintenance + Taxes)
Therefore Total expenditure = 350 + 450 + 200 + 50 + 350 + 250 + 150 = 1800

Q69. Answer: (d) 30

The central angle of the sector representing Taxes is = 150/1800 × 360 = 30°

Q70. Answer: (b) 44.44%

Calculation:
Total expenditure = Expenditure on (Raw Material + Labour + Power + Rent + Logistics + Maintenance + Taxes)
Total expenditure = 350 + 450 + 200 + 50 + 350 + 250 + 150 = 1800
Expenditure on Labour and Raw Material = 450 + 350 = 800
Therefore Required % = 800/1800 × 100 = 44.44%

Q71. Answer: (d) 62

Given:
The length of the diagonal = 25cm
The breadth of the rectangle = 7cm
Formula used:
Perimeter of the rectangle = 2(l + b)
$D^2 = l^2 + b^2$
where D → Diagonal
l → length of the rectangle
b → breadth of the rectangle
Calculation:
D = 25 cm, b = 7 cm and l = ?
=> $D^2 = l^2 + b^2$
=> $25^2 = l^2 + 7^2$
=> $l^2 = 625 - 49$

=> $l^2 = 576$

=> $l = 24$

Therefore Perimeter of rectangle = 2(24 + 7) = 62 cm

Q72. Answer: (c) 60°

Given:

Sides of a regular polygon = 6

Formula used:

Each interior angle of a polygon with 'n' sides = {180^? × (n - 2)}/n

Exterior angle = (360°)/n

Calculation:

Interior angle of a regular polygon

=> {180° × (6 - 2)}/6 = 30 × 4 = 120°

Exterior angle = (360°)/n = (360°)/6 = 60°

Therefore Required Difference = 120° - 60° = 60°

Q73. Answer: (b) 7

Given:

Curved surface area of cone = 99 cm^2

Slant height of the cone = 9 cm

Formula used:

Curved surface area of cone = πrl

where r → radius of the cone

l → slant height of the cone

Calculation:

=> πrl = 99

=> 22/7 × r × 9 = 99

=> r = 3.5 cm

Therefore Diameter = 2 × 3.5 = 7 cm

Q74. Answer: (c) (1 - √3)/3

Concept used:

Calculation:

1/3 - cot 60° = 1/3 - 1/√3 = (1 - √3)/3

Q75. Answer: (d) 8/17

tan X = 15/8 = YZ/XY

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

=> $(XZ)^2 = (15)^2 + (8)^2 = 225 + 64 = 289$

=> XZ = 17

Therefore sin Z = XY/XZ = 8/17

Q76. Answer: (b) There are no restrictions on exports and imports

The correct answer is There are no restrictions on exports and imports

Key Points

• Free trade:-

• It is a policy that is made between two nations or even more.

• In free trade areas, there are no import tariffs or quotas on products.

• This policy permits the unlimited and unrestricted import or export of goods and services between those partner nations.

Q77. Answer: (a) Commercial Irrigation Projects

The correct answer is Commercial Irrigation Projects.

Key Points

• Non-Tax revenue is the income earned by the government from sources apart from taxes.

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• It can be increased by improving the working of Commercial Irrigation Projects.

Q78. Answer: (c) Krishna Deva Raya

The correct answer is Krishna Deva Raya.

Key Points

• Krishna Deva Rayi:-

• Krishna Deva Raya was from the Tuluva dynasty of the Vijaynagar Empire and became ruler from 1509-1530.

• He is considered to be the greatest ruler of the Vijaynagar Empire.

• He gave permission to the Portuguese to erect a fort at Bhatkal.

• He abolished the marriage tax but he imposed a tax on widow remarriage.

• He was the friend of the Portuguese Governor Albuquerque, who sent an agent to offer help to Krishna Deva in his fight with the Bahamanis in return for his support against the Zamorin of Calicut.

• Krishna Deva did not immediately accept the offer, however, the second Portuguese ambassador succeeded in convincing him.

Additional Information

• Devaraya II:-

• He is also known as Proudha Devaraya.

• He had the title of Gajabetekaara as he was good at the art of Elephant Hunting.

• Persian Ambassador Abdur Razzak visited his court in 1443.

• He describes that there is no king more powerful than him in the whole of Hindusthan.

• He had led a naval expedition against Ceylon and collected rich tributes from them. Hence statement 1 is Correct.

• He wrote a Sanskrit work Mahanataka Sudhanidhi on stagecraft.

• Venkat II:-

• Venkatapati Raya was the younger brother of Sriranga Deva Raya and the ruler of Vijayanagara Empire with bases in Penukonda, Chandragiri and Vellore.

• His reign of three decades saw a revival of the strength and prosperity of the empire. He allowed the Portuguese to build a church in his empire.

• Narsingh Raya:-

• The Tuluva dynasty was founded by Vir Narsingh.

Q79. Answer: (b) Gore

The correct answer is Gore

Key Points

• Gore:-

• A sector between the two longitude lines is known as Gore. It is a curved surface that lies between 2 close lines of longitude on a globe.

Additional Information

• Belt:-

• It is a geographic region that is usually bandlike and is distinctive in a specific respect.

• Time box:-

• It is a fixed time period for each planned activity.

Q80. Answer: (b) Andaman and Nicobar Islands

The correct answer is Andaman and Nicobar Islands

Key Points

• Black Water:-

• The Cellular Jail, a colonial prison of Andaman and Nicobar Islands in India was also known as Kala Pani or Black Water before independence.

• The prison was mainly used by the Britishers to keep away political prisoners in the remote islands.

Q81. Answer: (b) Kathak dance

The correct answer is Kathak dance.

Key Points

• Sitara Devi:-

• She was an eminent Indian Kathak dancer.

• She is a recipient of Padma Shri, Sangeet Natak Akademi Award, Nritya Nipun, and Kalidas Samman.

• Sitara Devi is a well-known classical Kathak dancer of India, born at the day of the great Indian festival Diwali in Kolkata in 1920.

• As she was born on Dipawali, she has also named as Dhanalakshmi (nickname of which is Dhanno). She belongs to the Brahmin family of Varanasi.

• Her father, Sukhdev Maharaj, was also a Kathak performer and teacher.

• Her mother, Matsya Kumari, belongs to the Royal family of Nepal.

• Kathak was the source of income as well as the fervour of her family. Her father had passed all his talent (Kathak, Bharatanatyashastra, Sanskrit) to his children (daughters are Alaknanda, Tara, Dhano and sons are Chaube, Pande). She was depicted as the Nritya Samragini by Rabindranath Tagore when she was just 16.

• Rabindranath Tagore encouraged her to revitalize the Indian arts through the Kathak.

• Still, She is known as the Kathak queen of India.

• Kathak

• They were originally a cast of storytellers in north India (Utter Pradesh) who used to sing gestures and songs in temples.

• This word is derived from Katha (Sanskrit Word).

• This dance was spread in India during the Bhakti Movement in the 16th-17th centuries.

• Other Famous Kathak dancers – Birju Maharaj, Lachu Maharaj, Sambu Maharaj, Shovna Narayan.

Q82. Answer: (a) Naseem Al Bahr

The 11^(th) edition of the bilateral naval exercise conducted by Indian and Omar Navy near Muscat in 2017 was Naseem Al Bahr, which means ‘sea breeze’. This exercise is a biennial feature since 1993.

Q83. Answer: (b) Akshay Kumar

The correct answer is Akshay Kumar.

Key Points

• Akshay Kumar won the best actor award for his film Rustom, while the best actress award was won by Surabhi Lakshmi for her Malayalam film Minnaminungu.

• The National Film Awards is an award ceremony conducted every year during which the Directorate of Film Festivals honours the best films of Indian cinema for that year.

• The 64^(th) National Film Awards was held on May 3, 2017.

Important Points

• The National Film Awards is the most prominent film award ceremony in India.

• National Film Awards established in 1954, it has been administered, along with the International Film Festival of India and the Indian Panorama, by the Indian government's Directorate of Film Festivals since 1973.

• The National Film Awards are presented in two main categories:

• Feature Films and Non-Feature Films.

• The Awards are categorized into three sections:

• Feature Films, Non-Feature Films, and Best Writing on Cinema.

Q84. Answer: (c) The length to width ratio of the rectangle is 4 : 3

The correct answer is The length to width ratio of the rectangle is 4 : 3

Key Points

• Bangladesh’s Flag:-

• The national flag of Bangladesh consists of a red circle in the middle with a bottle green background.

• The length-to-width ratio of the rectangle is 3 : 5.

• The middle circle has a radius of one-fifth of the length.

• The flag was adopted officially on 17 January 1972.

• Artist Quamrul Hassan designed the Bangladesh National Flag.

Additional Information

• The capital of Bangladesh is Dhaka.

• The currency of Bangladesh is ‘The Bangladeshi taka’.

Q85. Answer: (b) Diatomic

The correct answer is Diatomic.

Explanation:

• The oxygen molecule is diatomic.

• Diatomic molecules are those molecules which are composed of only 2 atoms, of either same or different chemical elements.

• Hydrogen (H2) and oxygen (O2) are examples of diatomic molecules.

Q86. Answer: (a) Only I and III

The correct answer is Only I and III.

Explanation:

ACIDS :

• When these compounds are dissolved in water, they produce hydrogen ions (H^+ ions).

• An acid is classified chemically as a substance that dissolves and donates protons or hydrogen ions to a solution.

• Acids have a sour taste for example - lemon juice and vinegar.

• Acids in aqueous solutions are electrolytes, which means they conduct an electrical current.

• The pH range of acids is less than 7.

• Response with indicators -

• LITMUS PAPER

• Turns blue litmus to red

• Red litmus ramins red

BASES:

• Bases, on the other hand, have a bitter taste and are slick to the touch. The term "alkali" refers to a base that can be dissolved in water. Salts are formed when these compounds react chemically with acids. It's common for bases to turn red and litmus blue.

• When these compounds are dissolved in water, they produce hydroxide ions (OH^- ions).

• This means, bases don't have hydrogen ions to dissociate but they have an atom of hydrogen (H) associated with the oxygen to form and hydroxide ion(this OH- dissociateS in water).

Q87. Answer: (a) Comptroller and Auditor General of India

The correct answer is Comptroller and Auditor General of India

Key Points

• Comptroller and Auditor General of India:-

• The Comptroller and Auditor General (CAG) of India is the head of the Indian Audit and Accounts Department.

• CAG controls the entire financial system of the country at both state and central levels and is the supreme body for audits and accounts in India.

• He/ She is appointed by the President of India.

• He/ She holds the office for six years or up to the age of 65.

• CAG has the same status as the judge of the Supreme court

• It is also known as ‘the guardian of the public purse’.

• Articles related to the Comptroller and Auditor General of India:-

Article 148	**• Provisions of Comptroller and Auditor General of India**
Article 149	• Duties and powers of Comptroller and Auditor General of India
Article 150	• Accounts of the Union and the States
Article 151	• Audit reports of the Union shall be submitted to President, and the State shall be submitted to Governor

Additional Information

• Prime Minister of India:-

• The prime minister is appointed by the president of India; however, the prime minister has to enjoy the confidence of the majority of Lok Sabha members, who are directly elected every five years, lest the prime minister shall resign.

• A member of either the Lok Sabha or the Rajya Sabha can be appointed as the Prime Minister.

• Other Ministers shall be appointed by the President on the advice of the Prime Minister.

• Chief Justice of India:-

• CJI is the highest-ranking officer of the Indian federal judiciary.

• The Chief Justice of India and the Judges of the Supreme Court are appointed by the President under clause (2) of Article 124 of the Constitution.

• Appointment to the office of the Chief Justice of India should be of the seniormost Judge of the Supreme Court considered fit to

hold the office.

• The Union Minister of Law at the appropriate time, seeks the recommendation of the outgoing Chief Justice of India for the appointment of the next Chief Justice of India

Q88. Answer: (d) All I, II and III

The correct answer is All I, II and III.

Key Points

• All India Service

• All appointments to All India Civil Services are made by the President of India.

• The All India Services comprises the Civil Services of India, namely the Indian Administrative Service (IAS), the Indian Police Service (IPS), and the Indian Forest Service (IFS).

• he members of these services are recruited by the Union government, but their services are placed under various State cadres, and they have the liability to serve both under the State and under the Centre.

Additional Information Tenure of Office:

• According to Article 310, members of the defence services, the civil services of the Centre and the all-India services or persons holding military posts or civil posts under the Centre, hold office during the pleasure of the president.

• Similarly, members of the civil services of a state or persons holding civil posts under a state, hold office during the pleasure of the governor of the state.

Safeguards to Civil Servants:

• Article 311 places two restrictions on the above 'doctrine of pleasure'.

• In other words, it provides two safeguards to civil servants against any arbitrary dismissal from their posts.

• A civil servant cannot be dismissed or removed by an authority subordinate to that by which he was appointed.

Q89. Answer: (c) Food

The correct answer is Food.

Explanation:

Food is the main source of energy and materials for human beings. Important nutrients derived from food include carbohydrates, proteins, fats, lipids, amino acids, and more.

Q90. Answer: (c) touch

The correct answer is touch.

Explanation:

• The somatosensory system is one of the parts of the sensory nervous system.

• The sensory receptors are found all over the body including, bones, joints, muscles, skin, internal organs, epithelial tissues, and the cardiovascular system.

• The somatosensory receptors in human beings detect touch and temperature.

• Gustatory and olfactory receptors are the sensory receptors that are related to the sense of taste and sense of smell.

• Gustatory receptors

• It is present on the tongue are spread evenly across the taste buds.

• Their main function is to provide a sense of taste.

• Olfactory receptors

• It is present on the surface of the olfactory neurons.

• Their main function is to sense smell.

• These receptors equip sperm cells for finding the egg through a sense of smell.

Q91. Answer: (b) Platform

The correct answer is Platform.

Key Points

• To make a child labour-free society, the PENCIL portal was launched in September 2017 in India by Union Minister Rajnath Singh.

• PENCIL stands for Platform for Effective Enforcement for No Child Labour.

• This portal will combat the menace of sexual abuse, child labour, and trafficking in India.

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Q92. Answer: (b) Bharat Biotech

The correct answer is Bharat Biotech.

Key Points

• Bharat Biotech has developed Typbar Typhoid Conjugate vaccine that has received pre-qualification from the World Health Organisation (WHO) for global use.

• Bharat Biotech, a vaccine company, in December 2017, received a Pre-Qualification tag from the World Health Organisation (WHO) for Typbar TCV or Typhoid Conjugate Vaccine.

• The WHO tag would allow the firm to access global public vaccination programmes.

• Typbar TCV is the first typhoid vaccine, clinically proven to be administered to children from six months of age to adults, and confers long-term protection against typhoid fever.

Important PointsWorld Health Organization (WHO)

• The World Health Organization was established on April 7, 1948.

• The headquarters of the World Health Organisation (WHO) is located in Geneva, Switzerland.

• Tedros Adhanon is the Director-General of the World Health Organization.

• Therefore April 7 is observed as World Health Day every year.

• The World Health Assembly and the Executive Board are the governing bodies of WHO.

• WHO gets funding from its member nations which can be either compulsory or Voluntary.

• The countries which are members of UNO are the members of WHO also.

Q93. Answer: (a) 1.7

The correct answer is 1.7.

Key Points

• Income Tax Department:-

• It functions under the Department of Revenue of the Ministry of Finance.

• It is responsible for the following:-

• To formulate progressive tax policies.

• To make compliance easy To enforce tax laws with fairness.

• To deliver quality services.

• To continuously upgrade skills and build a professional and motivated workforce.

• Its headquarter is in New Delhi.

• As per the data released by the Income Tax Department in December 2017, only 1.7 percent of the total population, i.e. over 2 crore people paid income tax in the assessment year 2015-16.

Q94. Answer: (b) Public Private Partnership

On 20 July 2017, Lok Sabha passed IIIT PPP Bill, 2017. The Bill seeks to allow 15 IIITs established on a PPP model to grant degrees. PPP stands for Public Private Partnership.

Q95. Answer: (b) 4.8

The correct answer is 4.8.

Key Points

• CONCEPT:

• Resistance: The property of any conductor that opposes the flow of electric current through it and depends on the shape and size of the materials, temperature, and nature of the materials is called resistance.

• It is denoted by R and the SI unit is the ohm (Ω).

The resistance is given by:

• R = ρL/A

• where ρ is resistivity, L is the length and A is the area of the cross-section.

CALCULATION:

• Given that:

• Length (L) = 8 m

• The cross-sectional area (A) = 2 cm2 = 2 × 10-4 m2

• The Resistivity (ρ) = 120 Ω m

• We know that,

• Resistance (R) = Resistivity (ρ) × (Length(L)/Cross-sectional area (A))

• Now,
• R = [120 × (8/0.0002)] = 4.8 × 106 Ω = 4.8 × 106 × 10-6 mega Ω
• R = 4.8 mega Ω. So option 2 is correct.

Q96. Answer: (d) speed

The correct answer is speed.

Key Points

• The distance-time graph represents the distance covered by the particle in time 't'.
• The slope of the curve in the distance-time graph represents the instantaneous velocity.
• Instantaneous velocity is defined as the rate of change of position for a time interval which is very small (almost zero).
• It is measured using the SI unit m/s.
• The slope of the curve is measured in the anticlockwise direction from the positive x-axis. it is denoted by tanθ.

Additional Information

• Acceleration
• Acceleration is defined as the rate of change of velocity with respect to time.
• Acceleration is a vector quantity as it has both magnitude and direction.
• It is also the second derivative of position with respect to time or it is the first derivative of velocity with respect to time.
• Instantaneous acceleration is defined as the ratio of change in velocity during a given time interval such that the time interval goes to zero.
• The acceleration formula is given as:
• Momentum
• It is defined as the quantity of motion of the body.
• It is measured by mass × velocity.
• Momentum depends on both speed and direction
• Momentum is a vector quantity as mass is scaler and velocity is vector
• Momentum = Mass X Velocity (p=mv).
• SI unit Kg-ms-1.
• Mass
• Mass is a property of a physical body. It is generally the amount of matter of an object.
• Since it only has magnitude and no direction, it is a scalar quantity.

Q97. Answer: (b) is heated

The correct answer is is heated.

Key Points

• Air expands when it is heated. This happens because the particles of air move away from each other when they are warm and occupy more space.
• This makes the air lighter in weight and less dense.

Q98. Answer: (c) A, B and C

In 2017, Wes Morgan captained the Premier League team Leicester City.

In 2017, Romelu Lukaku played for the Premier League team Manchester United.

France hosted the Tennis 2017 Davis Cup Final.

Q99. Answer: (d) Tabs

The correct answer is Tabs.

Key Points

• Microsoft Word:-
• Microsoft word is recognised as a word processing software, meaning a user can rewrite, erase or modify a document as per the requirement.
• The documents created in MS Word are very high in quality. MS Word is used for creating reports, stories, letters, resumes etc.
• It allows users to edit or modify the new or existing document with colour or any other formats like bold, italic and underline.
• In MS Word, the users can write the stories in paragraph format.
• The file extension used in Ms Word is .doc or .docx.

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• Tabs setting allows us to align the text at a particular point, or to create a tabular layout.

Q100. Answer: (d) Formation of Hunter Commission

The correct answer is Formation of Hunter Commission.

Key PointsHunter Education Commission:

• In 1882, the government appointed a commission.

• It was chaired by W.W. Hunter, to review the country's educational progress since the Despatch of 1854.

• The Hunter Commission's recommendations focused primarily on primary and secondary education.

Additional InformationHunter Education Commission - Objectives

• To assess the state of education in India, with a focus on primary education, and to make recommendations for improvement.

• To evaluate the educational work of religious missionaries.

• Inquire about the implementation of Wood's Despatch of 1854 and the use of its grants-in-aid, and make suggestions for reforms.

• To decide whether or not the government should be allowed to continue providing education to its people.

• The Hunter commission's primary goal is to investigate the state of primary education in India, but the commission also decided to investigate secondary and higher education in India.

• It was asked to study the position of state institutions and the position of missionary institutions in general.

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