SSC CHSL Previous Paper 17 (Held On: 11 March 2018 Shift 2) (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'.

I have give (1)/you my (2)/ring last week. (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'.

He is merely the personification of ‘the good, the bad, and the ugly’ of (1)/ news channels or perhaps the manifestation in (2)/ television news at its best. (3)/ No error (4)

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

Q3. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The parting was painful for _____.

(a) Two
(b) Second
(c) Both
(d) It

Q4. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The mind is a tool to achieve _____ levels of consciousness, wisdom and bliss.

(a) higher
(b) diagonal
(c) vertical
(d) horizontal

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

Incessantly

(a) Ceasing
(b) Irregularly
(c) Steadily

(d) Unevenly

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

Ruse

(a) Rules
(b) Fuel
(c) Trick
(d) Exchange

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

Incorrigible

(a) Hopeless
(b) Incurable
(c) Reformable
(d) Loser

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

Eventual

(a) Future
(b) Last
(c) Overall
(d) Initial

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

Disadvantage of wired telephone

P: due to the line breakage

Q: connection is the loss

R: of connectivity during disasters

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

Q10. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

Tanya will bring the snake.

(a) The snake will be bring by Tanya.
(b) Tanya will be bringing the snake.
(c) The snake will be brought by Tanya.
(d) The snake brought by Tanya.

Q11. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

The beggar exclaimed, “will none of you help me?”

(a) The beggar asked to help him.
(b) The beggar exclaimed whether none of them would help him.
(c) The beggar exclaimed would none of them helped him.
(d) The beggar exclaimed whether they would help him.

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Q12. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Expernce
(b) Experience
(c) Expeireince
(d) Expereince

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.

We get sleepy and wake up, become hungry and thirsty at certain hours, _____ force of habit. We form the habit of liking a certain chair, or nook, or corner, or path, or desk, and _____ seek this to the exclusion of all others. We _____ use a particular pitch of voice and type of enunciation in speaking, and this becomes one of our characteristic marks; or we _____ the habit of using barbarisms or solecisms of language in _____, and these cling to us and become an inseparable part of us later in life.

Q13. at certain hours, _____ force of habit.

(a) tough
(b) thought
(c) though
(d) through

Q14. desk, and _____ seek this to the exclusion

(a) than
(b) there
(c) then
(d) that

Q15. We _____ use a particular pitch of voice

(a) habit
(b) habits
(c) habitual
(d) habitually

Q16. marks; or we _____ the habit of using

(a) from
(b) form
(c) for
(d) of

Q17. language in _____, and these cling

(a) young
(b) younger
(c) youths
(d) youth

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

By courtesy of

(a) Be very polite.
(b) Do a philanthropic act forcefully.
(c) Be brave and face risks for the team.
(d) Given or allowed by.

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

In the same boat

(a) When the option that you have is equally bad as the situation you are in.
(b) Life like the river throws the same challenges for all boats.
(c) Be in the same difficult circumstances as others.
(d) Big and small boats suffer the same fate in a storm.

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

Critical explanation or interpretation of a text, especially of scripture

(a) Oblivion
(b) Nascence
(c) Exegesis
(d) Naivete

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

Destruction or slaughter on a mass scale

(a) Enshrine
(b) Cenotaph
(c) Opulent
(d) Holocaust

Q22. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

That year too, ‘Photographers’ (was listed) separately in the Trade List of The Madras Almanac.

(a) Is listed
(b) Were listing
(c) Were listed
(d) No improvement

Q23. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

But we expect them (to performs) better than all others.

(a) To performing
(b) Perform
(c) To perform
(d) No improvement

Q24. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

Next to the Punjabi

A – clad in beautiful sarees

B – family was a group from Chennai in

C – which all the women were

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

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

(a) Meritocratic
(b) Meritocretic
(c) Meritocretik
(d) Meritocratik

GENERAL INTELLIGENCE

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

Tie : Neck : : ? : ?

(a) Hat : Head
(b) Shoes : Socks
(c) Laces : Cotton
(d) Shirt : Legs

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

15 : 22 : : 19 : ?

(a) 24
(b) 20
(c) 26
(d) 22

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

BCE : IJL : : CDF : ?

(a) KLN
(b) JKM
(c) JLN
(d) KMN

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

(a) Red - Stop
(b) Green - Go
(c) Pink - Red
(d) Yellow - Wait

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

(a) 19 - 57
(b) 13 - 39
(c) 23 - 69
(d) 17 - 53

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

(a) RSUW
(b) CDFI
(c) KLNQ
(d) STVY

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

1. Philosopher
2. Pharmacy
3. Piercing

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4. Salesman
5. Saleswoman

(a) 21345
(b) 53214
(c) 34215
(d) 24513

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

14, 17, 21, 24, 28, 31, ?

(a) 32
(b) 33
(c) 35
(d) 34

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

H, K, N, ?, T, W, ?

(a) R, Y
(b) Q, Z
(c) R, Z
(d) S, X

Q35. Six batteries are kept one above the other. Jumbo is just above Pick. The Volt is between Tank and Ping. Lift is between Jumbo and Tank. Which battery is at second position from the bottom?

(a) Pick
(b) Tank
(c) Volt
(d) Jumbo

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

Grandmother

(a) Read
(b) Other
(c) Author
(d) Great

Q37. In a certain code language, “MAGNET” is written as “WHQJDP”. How is “FRAUDS” written in that code language?

(a) FXRVMK
(b) VGXDUI
(c) XDUIGT
(d) TMKRDU

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

18 + 2 × 30 ÷ 6 - 4 = ?

(a) 46
(b) 3
(c) 36
(d) 7

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

2 - 10 × 6 + 5 = 22

(a) • and =
(b) • and +

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(c) • and ×
(d) • and ×

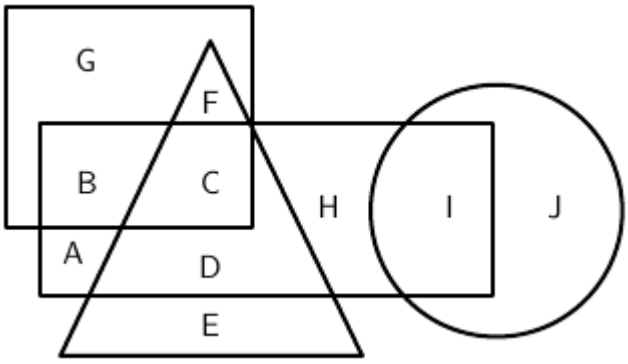
Q40. If 3 # 5 = -20, 1 # 4 = -30 and 6 # 5 = 10, then find the value of 4 # 9.
(a) 70
(b) -60
(c) -50
(d) -70

Q41. Which of the following terms follows the trend of the given list?
ZYXYXYXY, ZWXYXYXY, ZWZYXYXY, ZWZWXYXY, ZWZWZYXY, _____.
(a) XYXYXYXY
(b) ZYXYXYXY
(c) ZWZWZWXY
(d) ZWXYXYXY

Q42. A post-man starts cycling from his post office. He cycles 7 km South, then turns West and cycles 5 km. Then, turns North and cycles 6 km, then turns to his right and cycles 5 km. Where is he now with reference to his post office?
(a) 1 km North
(b) 2 km North
(c) 1 km South
(d) 2 km South

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: All potatoes are chips.
Statement II: All French fries are potatoes.
Conclusion I: No chips are French fries.
Conclusion II: Some French fries are chips.
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Neither conclusion I nor conclusion II follows

Q44. In the following figure, rectangle represents Reporters, circle represents Lyricists, triangle represents Potters and square represents Europeans. Which set of letters represents Europeans who are not potters?



(a) FC
(b) GB
(c) AD
(d) DE

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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.

API, CRK, ETM, ?, IXQ

(a) HUP
(b) GVO
(c) IVP
(d) IUO

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

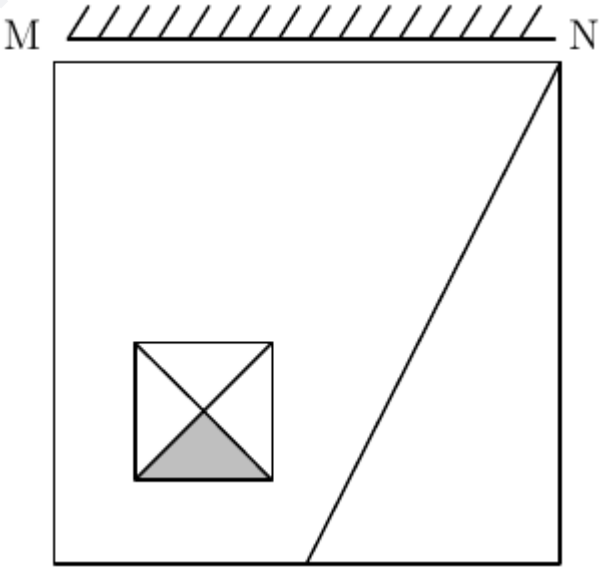
108, 104, 100, 96, 92, ?

(a) 88
(b) 84
(c) 90
(d) 86

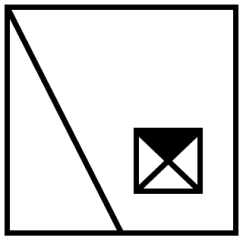
Q47. In the following question, four groups of three numbers are given. In each group, the second and third numbers are related to the first number by a Logic/Rule/Relation. Three are similar on the basis of the same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (14, 29, 43)
(b) (15, 31, 46)
(c) (18, 37, 5)
(d) (13, 27, 40)

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

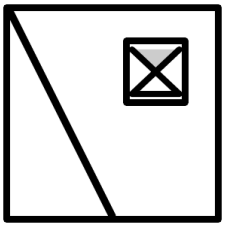


(a)

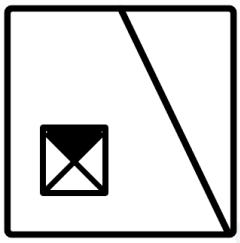


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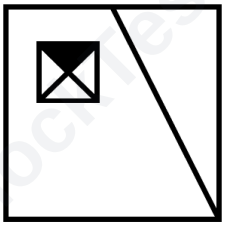
(b)



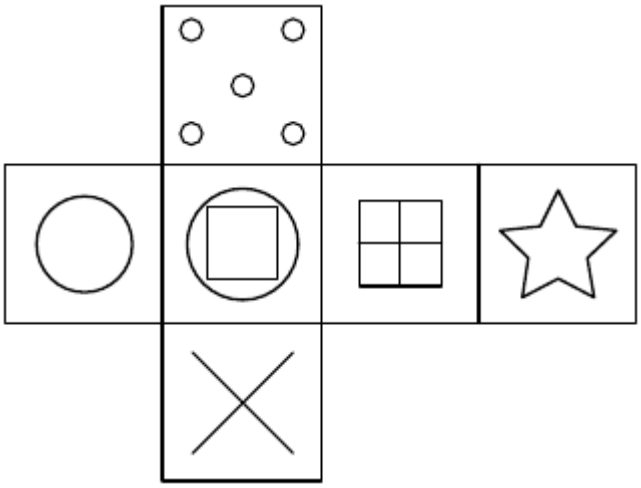
(c)



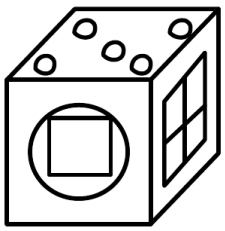
(d)



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

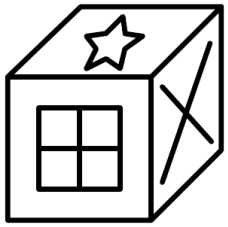


(a)

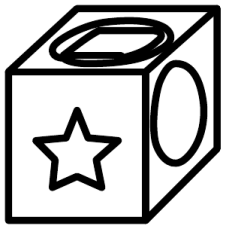


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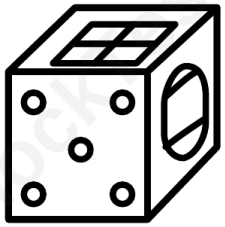
(b)



(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 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 'J' can be represented by 23, 41 etc and 'R' can be represented by 65, 57 etc Similarly, you have to identify the set for the word 'DOPE'.

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

(a) 14, 75, 40, 98
(b) 20, 59, 77, 30
(c) 31, 96, 11, 77
(d) 24, 65, 13, 95

QUANTITATIVE APTITUDE

Q51. Find the remainder in the expression (550 × 651 × 662)/7

(a) 2
(b) 4
(c) 0
(d) 3

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Q52. Simplify $(11.998)^3$ = ?

(a) 1727.136
(b) 1331.136
(c) 1685.136
(d) 1700.136

Q53. Find the value of (4√6/4√3)^4

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

Q54. Determine the value of (a + 1)^(b – 1) when a^b = 343

(a) 9
(b) 64
(c) 125
(d) 216

Q55. In the two triangles ABC and DEF the sides AB-DE and BC-EF are equal. Which of the following option is correct which results in the ΔABC ≅ ΔDEF?

(a) angle ACB = angle EDF
(b) angle BAC = angle DEF
(c) angle ACB = angle DEF
(d) angle ABC = angle DEF

Q56. The triangle ABC and DEF are similar to each other. The measure of the angle A and E is 67 and 83 degree respectively. What is the value of angle C?

(a) 20°
(b) 30°
(c) 40°
(d) 50°

Q57. If R = 97 and S = 155.2, then S is how much percentage more than R?

(a) 60
(b) 37.5
(c) 58.2
(d) 48

Q58. The ratio of two numbers is 5: 6. If their product is 1470, then what is the sum of both numbers?

(a) 210
(b) 77
(c) 132
(d) 98

Q59. U starts a business by investing Rs. 45000 and V join him after one year with an amount of Rs. 33000. After two years from the starting of the business, they earned a profit of Rs. 16400. What will be the U's share (in Rs) in the profit?

(a) 11200
(b) 9600
(c) 10000
(d) 12000

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Q60. A man buys 7 shirts at Rs. 300 each, 2 trousers at Rs. 450 each and 1 pair of shoes at Rs. 500 each. What is the average expenditure (in Rs) per article?

(a) 210
(b) 250
(c) 320
(d) 350

Q61. Compound interest on a certain sum for 2 years at the rate of 11% per annum is Rs. 1160.5. What will be the simple interest (in Rs) for the same amount at the same rate of interest for 2 years?

(a) 9000
(b) 1000
(c) 1100
(d) 1050

Q62. Two shirts are bought at the rate of Rs. 400 each. The shopkeeper sells one at a profit of 50% and the other at a loss of 50%. What will be the total profit or loss in the whole transaction?

(a) Loss of Rs. 50
(b) No profit/loss
(c) Profit of Rs. 25
(d) Loss of Rs. 150

Q63. Deepak marks the price of his table as 60% above the cost price. He gives some discount on it and earns a profit of 15.2%. What is the discount percentage?

(a) 36.4
(b) 28
(c) 44.8
(d) 38.9

Q64. What is the value of cbrt729 + √441 – cbrt343 ?

(a) 48
(b) 23
(c) 7
(d) 41

Q65. Parvesh is three times as efficient as Dinesh. Parvesh takes 20 days less than Dinesh to complete a book. If both of them work together, then in how many days will the book be completed?

(a) 7.5
(b) 8
(c) 10
(d) 6.5

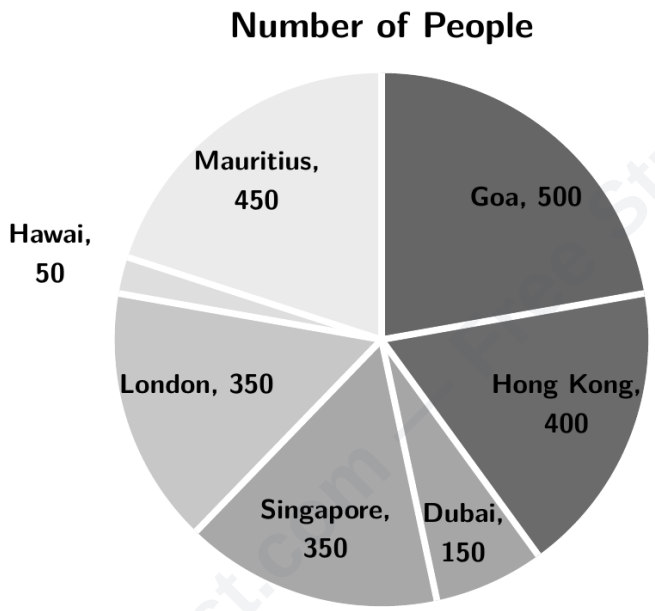
Q66. If Shubhangi walks at a speed of 2 km/hr, then she reaches her school 5/2 minutes late but if she walks at a speed of 2.5 km/hr, then she reaches 5 minutes before the scheduled time. What is the distance (in km) of her school from her house?

(a) 1.025
(b) 1.125
(c) 1.25
(d) 1.5

Directions

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

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Q67. Which travel destination is the favorite of most people surveyed?

(a) Hong Kong
(b) Mauritius
(c) Singapore
(d) Goa

Q68. What is the total number of people who have responded to the survey?

(a) 2150
(b) 2400
(c) 2250
(d) 2100

Q69. The measure of the central angle of the sector representing number of people whose favorite travel destination is Hawaii is _____ (in degree).

(a) 10
(b) 12
(c) 15
(d) 8

Q70. Respondents who say their favourite travel destination is Goa and those who say their favourite travel destination is Hong Kong constitute what percent of the total respondents?

(a) 25%
(b) 33.33%
(c) 30%
(d) 40%

Q71. The length of the diagonal and the breadth of a rectangle are 26 cm and 10 cm respectively. Find its perimeter (in cm).

(a) 68
(b) 136
(c) 43
(d) 86

Q72. If the sum of the interior angles of a regular polygon is 1260°, then how many sides does it have?

(a) 10
(b) 12
(c) 15
(d) 9

Q73. Find the volume (in cm^3) of a right circular cylinder of diameter 42 cm and height 14 cm.

(a) 19404
(b) 18018
(c) 17321
(d) 16729

Q74. ΔABC is right angled at B. If mangle A = 30°, then find the value of (sinC + 1/3).

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

Q75. ΔDEF is right angled at E. If cos D = 5/13, then what is the value of tan F?

(a) 5/13
(b) 5/12
(c) 13/5
(d) 13/12

GENERAL AWARENESS

Q76. What does cyclical unemployment mean?

(a) Unemployment during recessionary phase of trade cycle
(b) Unemployment due to technological changes
(c) Unemployment due to low efficiency
(d) Voluntary unemployment

Q77. During which Five Year Planning was NABARD established?

(a) Fifth
(b) Sixth
(c) Third
(d) Ninth

Q78. Which of the following rulers started the Mughal style of painting?

(a) Babar
(b) Humayun
(c) Akbar
(d) Jahangir

Q79. Which of the following is related to the Tinkathia Pratha?

(a) Champaran
(b) Kheda
(c) Bardoli
(d) Darbhanga

Q80. Which of the following pairs is NOT correctly matched?

(a) Silent volcano : Damavand
(b) Active volcano : Stromboli
(c) Dormant Volcano - Krakatau
(d) Extinct volcano - Etna

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Q81. The mountain situated in the north-west India is: _____.

(a) Aravali
(b) Vindhyachal
(c) Hindukush
(d) Satpura

Q82. In which of the following areas, Pandit Jasraj has established his reputation?

(a) Literature writing
(b) Instrumental playing
(c) Classical singing
(d) Classical Dance

Q83. Which of the following has become the first country in the world to pay equal salary to men and women?

(a) Iceland
(b) Denmark
(c) Sweden
(d) Russia

Q84. Which Bollywood actor was honoured with the 24th Crystal Award at the world Economic Forum Meeting in January 2018?

(a) Shahrukh Khan
(b) Aamir Khan
(c) Salman Khan
(d) Saif Ali Khan

Q85. The National Flag of Bangladesh was designed by _____.

(a) Nandalal Bose
(b) Kazi Nazrul Islam
(c) Quamrul Hassan
(d) Ziaur Rahman

Q86. Which of the following is NOT a nucleon?

(a) Proton
(b) Electron
(c) Neutron
(d) No option is correct.

Q87. Baking soda is used _____.

I. for making baking powder
II. in soda-acid fire extinguishers
III. to neutralize excess acid in the stomach

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

Q88. What are the minimum qualifications of a person to become a member of Lok Sabha?

I. Must be a citizen of India
II. Must not be less than 25 years of age
III. Must hold an office of profit under Union Government.

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

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Q89. In Indian parliamentary system, the leader of the largest opposition party having not less than _____ seats of total strength of the house is recognized as the leader of the opposition in that House.

(a) 1/10^(th)
(b) 1/9^(th)
(c) 1/8^(th)
(d) 1/7^(th)

Q90. What is regulated by the sphincter muscle in the stomach?

(a) Exit of the food from the stomach
(b) Entry of food in the stomach
(c) Mixing of food in the stomach
(d) Exit of food from the large intestine

Q91. _____ of species is a reflection of their evolutionary relationships.

(a) Characteristics
(b) Adaptation
(c) Illustration
(d) Classification

Q92. National Skill Development Corporation (NSDC) and _____ are planning to launch 'Android Skill Development Programme' to impart mobile app development training.

(a) Microsoft
(b) Google
(c) Amazon
(d) Infosys

Q93. What is the name of the technology developed by Australian scientists to transform soybean oil into graphene?

(a) Grape
(b) GraphOne
(c) GraphSoy
(d) GraphAir

Q94. In August 2017, who launched 'S&P BSE Bharat 22 Index'?

(a) Asia Index
(b) Europe Index
(c) Australia Index
(d) Africa Index

Q95. On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Site and Remains (Amendment) Bill, 2017 which amends the _____.

(a) Ancient Monuments and Archaeological Sites and Remains (AMASR) Act, 1958
(b) Ancient Monuments and Archaeological Sites and Remains (AMASR) Act, 1978
(c) Ancient Monuments and Archaeological Sites and Remains (AMASR) Act, 1988
(d) Ancient Monuments and Archaeological Sites and Remains (AMASR) Act, 1996

Q96. An earthquake of magnitude 6 on Richter scale has _____ times more destructive energy than an earthquake of magnitude 4.

(a) ten
(b) hundred
(c) five
(d) thousand

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Q97. Which of the statements given below are correct?

A) In 2017, Gary Cahill captained the Premier League team Chelsea.

B) In 2017, Jordan Henderson captained the Premier League team Liverpool.

C) Canada hosted the 2017 AIBA World Boxing Championships.

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

Q98. _____ is the premier trade body of and the chamber of commerce of the IT-BPO industry in India.

(a) NIC
(b) NASSCOM
(c) Department of Information Technology
(d) State Bank of India

Q99. Find the kinetic energy (in J) possessed by a body of mass 10 kg moving with a velocity of 5 m/s.

(a) 25
(b) 125
(c) 62.5
(d) 50

Q100. If the acceleration due to gravity on the surface of the earth is g, then the acceleration due to gravity on the surface of a planet whose mass is double that of earth and radius is same as that of the earth is _____.

(a) 2g
(b) g
(c) g/2
(d) 4g

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) 1

The correct answer is '1' i.e. error lies in the first part of the sentence.

Key Points

In part 1 of the sentence, the usage of 'give' is incorrect Instead, use 'given'

• According to grammar, whenever we have 'have' as an auxiliary verb then after this we have to use the 'V3' form of the verb as the main verb of the sentence.

• In the given sentence, 'give' is the first form of the verb which is incorrect Hence, use 'given'

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So the correct sentence is- I have given you my ring last week.

Q2. Answer: (b) 2

The correct answer is '2' i.e. error lies in the second part of the sentence.

Key Points

In the second part of the sentence, the usage of 'in' is incorrect Instead, use 'of'

• 'Manifestation' means 'something is one of the different ways in which it can appear.' with this noun always use the preposition 'of'

• Let's see an example-

• Different animals in the colony had different manifestations of the disease.

So the correct sentence is- He is merely the personification of the good, the bad, and the ugly of news channels or perhaps the manifestation of television news at its best.

Q3. Answer: (c) Both

The correct answer is 'Both'

Key Points

• Here, the usage of 'parting' means 'the act of leaving a particular person or place. Or a parting is an occasion when this happens.'

• In the given blank, we need to use a pronoun 'Both' is a pronoun that means 'two people or things'

• Hence, according to the meaning, the correct answer will be 'both'

So the correct sentence is- The parting was painful for both.

Q4. Answer: (a) higher

The correct answer is 'higher'

Key Points

• In the given blank, we need a noun so according to the meaning and context the correct answer is 'higher'

• 'to achieve' is an infinitive phrase and we know that the infinitive verb has an object of its own. So if you read a sentence like this 'the mind is a tool to achieve what?' the answer is 'higher levels of consciousness'

• The noun 'higher' means 'the advanced level of something'

So the correct sentence is- The mind is a tool to achieve higher levels of consciousness, wisdom, and bliss.

Q5. Answer: (c) Steadily

The correct answer is 'Steadily'

Key Points

• Let's see the meaning of the given words-

• Incessantly→ means 'continuing without pause or interruption.'

• Example: She talked incessantly about the most trivial things.

• Ceasing→ means 'come or bring to an end; stop'

• Example: Prayer was made without ceasing.

• Irregularly→ means 'not regular in shape'

• Example: The patient is breathing irregularly

• Steadily→ means 'firmly fixed or supported.'

• Example: The company's exports have been increasing steadily.

• Unevenly→ means 'not regular, consistent, or equal.'

• Example: Many microwaves heat unevenly, leading to hot spots in the milk.

• So according to the meaning of the given words, the correct answer is 'steadily'

Q6. Answer: (c) Trick

The correct answer is 'trick'

Key Points

• Let's see the meaning of the given words-

• Ruse→ A stratagem or trick.

• Fuel→ means 'material to produce heat or power.'

• Trick→ means 'a cunning or skillful act'

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• Exchange→ means 'give something or something else'
• So according to the meaning of the given words, the correct answer is 'trick'

Q7. Answer: (c) Reformable

The correct answer is 'Reformable'

Key Points

• Let's see the meaning of the given words-
• Incorrigible→ means 'not able to be corrected or reformed.'
• Hopeless→ means 'feeling or causing despair'
• Reformable→ means 'make changes in order to improve it.'
• Loser→ means 'a person or thing that loses or has lost'
• So according to the meaning of the words, the correct answer is 'reformable'

Q8. Answer: (d) Initial

The correct answer is 'Initial'

Key Points

• Let's see the meaning of the given words-
• Eventual→ means 'occurring at the end of or resulting from a process or period of time.'
• Future→ means 'time that still to come'
• Last→ means 'continue for a specified period of time'
• Overall→ means 'taking everything into account'
• Initial→ means 'existing or occurring at the beginning'
• So according to the meaning of the words, the correct answer is 'Initial'

Q9. Answer: (a) QRP

The correct answer is 'QRP'

Key Points

Disadvantage of wired telephone connection is the loss of connectivity during disasters due to line breakage.

It is obvious that connection can only be linked to telephone out of all the words given → Q is first. Rule out 3) and 4).

The loss must be defined. Loss of what? Thus, R is second.

Q10. Answer: (c) The snake will be brought by Tanya.

The correct answer is 'The snake will be brought by Tanya'

Key Points

• Let's see the following steps to change the Active form into the passive form-
• The subject of the sentence will change into the object of the sentence.
• Firstly, see the tense of the sentence because in the passive voice the tense will not be changed.
• Secondly, whether the sentence has an object if it doesn't then, check for the infinitive phrase and then make the passive of the infinitive phrase.
• The structure of the passive voice is→ "Be + V3"
• So according to the steps the correct passive is→ The snake will be brought by Tanya.

Q11. Answer: (b) The beggar exclaimed whether none of them would help him.

The correct answer is 'The beggar exclaimed whether none of them would help him.'

Key Points

• The given sentence is in Direct Speech. As per the question, we have to change it into Indirect Speech.
• While changing the narration of an interrogative sentence, we make the following changes:
• 'Said to' is changed to 'told + object' whereas 'said' remains as it is.
• The first person (I/We) changes according to the subject and the second person (You) changes according to the object.
• The conjunction 'that' is used in place of commas and inverted commas.
• In the given sentence, the verb 'exclaimed' is used hence this verb will remain the same.

So the correct sentence is- 'The beggar exclaimed whether none of them would help him.'

Additional Information

• If the reporting verb is in the past tense and the reported speech is not an idiom/phrase/universal truth/routine/historical fact etc.,

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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

Q12. Answer: (b) Experience

The correct answer is 'Experience'

Key Points

• The correct spelling is 'Experience'

• The meaning of the given noun is- practical contact with and observation of facts or events.

• So the correct answer is 'Option 2'

Q13. Answer: (d) through

The correct answer is 'through'

Key Points

• 'Through' here in the given blank acts as a preposition that means 'by means of'

• In the given sentence, the means is 'force of habit'

• So the correct sentence is- We get sleepy and wake up, become hungry and thirsty at certain hours, through force of habit.

Q14. Answer: (c) then

The correct answer is 'then'

Key Points

• The sentence aims to say that we do all that and afterwards, we seek those to the exclusion.

• 'Then' here is used as 'adverb' to convey the meaning 'after that'

So the correct sentence is- We form the habit of liking a certain chair, or nook, or corner, or path, or desk, and then, seek this to the exclusion of all others.

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Q15. Answer: (d) habitually

The correct answer is 'habitually'

Key Points

• In the given blank, we need an adverb to convey the meaning that 'how we use a particular pitch of voice' always remember that the reply of 'how?' is an adverb.

• In the given option, there is only one option that has an adverb and it is option 4.

• Also, remember that the position of an adverb is in-between the main verb and the helping verb. In the given sentence, the main verb is 'use' hence use the adverb before it.

So the correct sentence is- We habitually use a particular pitch of voice

Q16. Answer: (b) form

The correct answer is 'form'

Key Points

• In the given blank, we need a verb for the subject 'we' hence it is a plural subject so we need a plural verb for it.

• In the given options, there is only one verb which is 'form'

So the correct sentence is- marks; or we form the habit of using

Q17. Answer: (d) youth

The correct answer is 'youth'

Key Points

• In the given blank, we need a noun to make a preposition object of the preposition 'in'

• In the options, 'young' and 'younger' are adjectives hence these cannot be the correct answer.

• As we need a singular noun in the given blank so the correct answer is 'youth'

So the correct sentence is- language in youth, and these cling

Q18. Answer: (d) Given or allowed by.

The correct answer is 'Given or allowed by'

Key Points

• Let's see the meaning of the given idiom 'by courtesy of'→ "as a favor rather than by right."

• Let's see an example-

• He was not at the conference only by courtesy

Q19. Answer: (c) Be in the same difficult circumstances as others.

The correct answer is 'Be in the same difficult circumstances as others'

Key Points

• Let's see the meaning of the given idiom 'in the same boat' is- "be in the same difficult circumstances as others."

• Let's see an example-

• She's always complaining that she doesn't have enough money, but we're all in the same boat.

Q20. Answer: (c) Exegesis

The correct answer is 'Exegesis'

Key Points

• Let's see the meaning of the given words-

• Exegesis → an explanation or critical interpretation of a text.

• Oblivion →the state of being unaware or unconscious of what is happening around one.

• Nascence→ being born or coming into existence for the first time.

• Naivete→ lacking experience, wisdom, or judgment.

• So according to the meaning of the given words, the correct answer is 'Exegesis'

Q21. Answer: (d) Holocaust

The correct answer is 'Holocaust'

Key Points

• Let's see the meaning of the given words

• Holocaust → means 'destruction or slaughter on a mass scale, especially caused by fire or nuclear war.

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• Enshrine*→ means '*reserve (a right, tradition, or idea) in a form that ensures it will be protected and respected.'

• Cenotaph*→ means '*an empty tomb or a monument erected in honour of a person or group of people whose remains are elsewhere.'

• Opulent → means 'wealthy.'

• Hence, according to the meaning of the given words, the correct answer is 'Holocaust'

Q22. Answer: (c) Were listed

The correct answer is 'were listed'

Key Points

• According to grammar, whenever the subject of the sentence is singular use the singular form of the verb. In the given sentence, 'photographers' is the plural subject hence use the plural verb for it.

• Also, 'that year' gives the time reference here which shows that the sentence is in the past tense. Also the doer of the main verb 'listed' is not written hence write the verb in the passive voice.

So the correct sentence is- That year too, 'Photographers' were listed separately in the Trade List of The Madras Almanac.

Q23. Answer: (c) To perform

The correct answer is 'to perform'

Key Points

• According to grammar, 'to + V1' is an infinitive phrase and we know that 'to' is a preposition.

• In the given sentence, 'performs' is not the base form. It is a singular form of the verb hence we cannot write this after the preposition.

So the correct sentence is- But we expect them to perform better than all others.

Q24. Answer: (d) BCA

The correct answer is 'BCA'

Key Points

• Punjabi is an adjective→ that must be followed by a noun.

• Hence, 'family' should be the noun that is followed by this adjective.

• After the preposition, we need to write a prepositional object that can be a noun/pronoun/gerund/noun phrase/noun clause. 'which all the women were' is the correct noun clause for the prepositional object. Hence it will be the second part.

• So the correct sentence is- Next to the Punjabi family was a group from Chennai in which all the women were clad in beautiful sarees.

Q25. Answer: (a) Meritocratic

The correct answer is 'Meritocratic'

Key Points

• The correct spelling is 'Meritocratic'

• The meaning of the given word 'Meritocratic' is 'government by people selected according to merit.'

Q26. Answer: (a) Hat : Head

Just as tie wears around the neck.

Similarly, hat wears on the head.

Hence, the correct answer is Hat : Head.

Q27. Answer: (c) 26

The pattern followed here is,

15 + 7 = 22

Similarly,

19 + 7 = 26

Thus, the correct answer is "26".

Q28. Answer: (b) JKM

The Pattern followed here is,

Similarly,

Hence, the correct answer is ‘JKM’.

Q29. Answer: (c) Pink - Red

All options are related to the traffic signal except Pink - Red.

Hence, the odd one is Pink - Red.

Q30. Answer: (d) 17 - 53

The Pattern followed here is,

1) 19 × 3 = 57

2) 13 × 3 = 39

3) 23 × 3 = 69

4) 17 × 3 = 51 (53)

Thus, the odd one is 17 - 53.

Q31. Answer: (a) RSUW

The table showing the positional value of the alphabet series is,

The logic followed here is,

1) R + 1 = S; S + 2 = U; U + 2 = W

2) C + 1 = D; D + 2 = F; F + 3 = I

3) K + 1 = L; L + 2 = N; N + 3 = Q

4) S + 1 = T; T + 2 = V; V + 3 = Y

Thus, RSUW is the odd one out.

Hence, the correct answer is, "RSUW ".

Q32. Answer: (a) 21345

According to dictionary order, words will be arranged as follows

2. Pharmacy

1. Philosopher

3. Piercing

4. Salesman

5. Saleswoman

Hence, the correct answer is ‘21345’.

Q33. Answer: (c) 35

The pattern followed here is,

14 + 3 = 17,

17 + 4 = 21,

21 + 3 = 24,

24 + 4 = 28,

28 + 3 = 31

Similarly,

31 + 4 = 35

Hence, the correct answer is "35".

Q34. Answer: (b) Q, Z

The pattern followed here is,

H + 3 = K,

K + 3 = N,

N + 3 = Q,

Q + 3 = T,

T + 3 = W,

W + 3 = Z

Hence, the correct answer is “Q, Z”.

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Q35. Answer: (d) Jumbo

The arrangement is as follows:

1. Jumbo is just above Pick

→ Jumbo > Pick

2. Lift is between Jumbo and Tank

→ Tank > Lift > Jumbo > Pick

3. The Volt is between Tank and Ping

→ Ping > Volt > Tank > Lift > Jumbo > Pick

6	Ping
5	Volt
4	Tank
3	Lift
2	Jumbo
1	Pick

So, ‘Jumbo’ is at second position from the bottom.

Hence, the correct answer is "Jumbo".

Q36. Answer: (c) Author

By checking solving all the options:

1) Read - GRANDMOTHER (Can be formed)

2) Other - GRANDMOTHER (Can be formed)

3) Author - GRANDMOTHER (Cannot be formed because “U“ is missing)

4) Great - GRANDMOTHER (Can be formed)

Hence, the correct answer is "Author".

Q37. Answer: (b) VGXDUI

The pattern followed here is,

MAGNET → WHQJDP

FRAUDS → VGXDUI

Hence, the correct answer is “VGXDUI”.

Q38. Answer: (b) 3

Given equation => 18 + 2 × 30 ÷ 6 - 4

Symbols	÷	•	•	×
Code	•	×	÷	•

After interchanging the symbols and solving by bodmas rule.

→ 18 ÷ 2 - 30 + 6 × 4

→ 9 - 30 + 6 × 4

→ 9 + 24 - 30

→ 33 - 30

→ 3

Hence, the correct answer is "3".

Q39. Answer: (d) • and ×

By checking and solving all the options:

Given Equation: 2 - 10 × 6 + 5 = 22

1) (+ and =) →

→ 2 - 10 × 6 = 5 + 22

→ 2 - 60 = 5 + 22

→ - 58 = 27

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2) (- and +) →
→ 2 + 10 × 6 - 5 = 22
→ 2 + 60 - 5 = 22
→ 62 - 5 = 22
→ 57 = 22
3) (- and ×) →
→ 2 × 10 - 6 + 5 = 22
→ 20 + 5 - 6 = 22
→ 25 - 6 = 22
→ 19 = 22
4) + and ×
→ 2 - 10 + 6 × 5 = 22
→ 2 + 30 - 10 = 22
→ 32 - 10 = 22
→ 22 = 22
Hence, the correct answer is "+ and ×".

Q40. Answer: (c) -50

The pattern followed here is,
3 # 5 → (3 - 5) × 10 = -20
1 # 4 → (1 - 4) × 10 = -30
6 # 5 → (6 - 5) × 10 = 10
Similarly,
4 # 9 → (4 - 9) × 10 = -50
Hence, the correct answer is "- 50".

Q41. Answer: (c) ZWZWZWXY

According to the sequence, ‘Y’ is shifting to ‘W’ and ‘X’ shifting to ‘Z’ one position ahead of its Last position and then next step shifting one position ahead of its next position at every step. Thus next term would be ‘ZWZWZWXY’.

Q42. Answer: (c) 1 km South

Based on the information given in the direction, the diagram can be traced as,
Hence, he is 1 km South with reference to his post office.

Q43. Answer: (b) Only conclusion II follows

The least possible Venn diagram for the given statements is as follows:
No chips are French fries → Doesn't Follows (as, all potatoes are chips and all French fries are potatoes)
Some French fries are chips → Follows (as, all potatoes are chips and all French fries are potatoes)
Hence, the correct answer is "only conclusion II follows".

Q44. Answer: (b) GB

Set of letters represents Europeans who are not potters = Set of letters represents Europeans - Common section of Europeans and potters. = (G + F + B + C) - (F + C) = G + B
Hence, the correct answer is “GB”.

Q45. Answer: (b) GVO

The pattern followed here is,
Thus, the correct answer is "GVO".

Q46. Answer: (a) 88

The pattern followed here is,
108 - 4 = 104,
104 - 4 = 100,
100 - 4 = 96,
96 - 4 = 92

Similarly,

92 - 4 = 88

Hence, the correct answer is "88".

Q47. Answer: (c) (18, 37, 5)

The pattern followed here is-

1) (14, 29, 43) → (14 × 2) + 1 = 28 + 1 = 29, (14 × 3) + 1 = 42 + 1 = 43

2) (15, 31, 46) → (15 × 2) + 1 = 30 +1 = 31, (15 × 3) + 1 = 45 + 1 = 46

3) (18, 37, 5) → (18 × 2) + 1 = 36 + 1 = 37, (18 × 3) + 1 = 54 + 1 = 55 (5)

4) (13, 27, 40) → (13 × 2) + 1 = 26 + 1 = 27, (13 × 3) + 1 = 39 + 1 = 40

Hence, the correct answer is "(18, 37, 5)".

Q48. Answer: (d) [figure]

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

Hence, the correct answer is "option 4".

Additional Information

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

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

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

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

Q49. Answer: (c) [figure]

The following figure is as follows:

and

cannot be adjacent.

Hence, the correct answer is "Option 3".

Q50. Answer: (b) 20, 59, 77, 30

By solving all the options:

1) 14, 75, 40, 98 - I, Y, I, V

2) 20, 59, 77, 30 - D, O, P, E

3) 31, 96, 11, 77 - C, S, C, P

4) 24, 65, 13, 95 - I, R, K, W

Hence, the correct answer is “20, 59, 77, 30”.

Q51. Answer: (c) 0

Calculation:

Now, in the above expression, 651 is completely divisible by 7

=> 651/7 = 93

So, the remainder for (550 × 651 × 662)/7 = 0

Q52. Answer: (a) 1727.136

Formula used:

$(a – b)^3 = a^3 – b^3 – 3ab(a – b)$

Calculation:

So, $(11.998)^3$

=> $(12 – 0.002)^3$

=> $(12)^3 – (0.002)^3 – 3(12)(0.002)(12 – 0.002)$

=> 1728 – 0.000000008 – 0.863856

=> 1727.136

Q53. Answer: (b) 2

Calculation:

(4√6/4√3)^4

=> (6/3)^({(1/4) × 4})

=> 6/3

=> 2

Therefore Option 2 is the correct answer.

Q54. Answer: (b) 64

Calculation:

a^b = 343

=> a^b = 7^3

On comparing we get, a = 7 and b = 3

Now,

the value of (a + 1)^((b – 1)) = (7 + 1)^((3 – 1))

= 8^2

= 64

Therefore the value of (a + 1)b – 1 is 64

Q55. Answer: (d) angle ABC = angle DEF

Calculation:

Two triangles are congruent by the rule SAS if two sides and the included angle of one triangle are equal to two sides and included angle of the second triangle. So, according to the given data if angle ABC = angle DEF then ΔABC ~= ΔDEF

Q56. Answer: (b) 30°

Calculation:

As triangles, ABC and DEF are similar to the corresponding angle will have the same measure so,

=> mangle A = 67°

=> mangle B = mangle E = 83°

Now, by angle sum property of the triangle

value of angle C = mangle C = 180° – (mangle A + mangle B)

= 180° – (67° + 83°)

Therefore The value of angle C = 30°

Q57. Answer: (a) 60

Given:

R = 97 and S = 155.2,

Calculation:

Required % = {(155.2 – 97)/ 97} × 100

= 60%

Therefore S is 60% more than R.

Q58. Answer: (b) 77

Calculation:

Let two numbers be 5x and 6x

Product = 5x × 6x = $30x^2$

According to the question,

$30x^2 = 1470$

=> $x^2 = 49$

=> x = 7

Now,

Sum = 5x + 6x = 11x

= 11 × 7 = 77

Therefore Sum = 77

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Q59. Answer: (d) 12000

Calculation:

Ratio of profit = (investment × time) of U : (investment × time) of V

=> Ratio of profit = 45000 × 2 : 33000 × 1 = 30 : 11

Total profit = Rs. 16400

U's share in profit = (30/41) × 16400

= 12000

Therefore U's share in profit is 12000

Q60. Answer: (d) 350

Calculation:

Total expenditure for 7 shirts = 7 × 300 = Rs. 2100

Total expenditure for 2 trousers = 2 × 450 = Rs. 900

Total expenditure for 1 pair of shoes = Rs. 500

Total amount spent = 2100 + 900 + 500 = Rs. 3500

Total article = 7 + 2 + 1 = 10

Now,

Therefore Average expenditure = 3500/10 = 350

Q61. Answer: (c) 1100

Calculation:

Let the principle be P.

Compounded amount = $P\{1 + (11/100)\}^2 = 1.2321P$

Compound interest = 1.2321P – P = 0.2321P

According to the question,

=> 0.2321P = 1160.5

=> P = 5000

Now,

Simple interest = (5000 × 11 × 2) /100

= 1100

Therefore Simple interest will be 1100.

Q62. Answer: (b) No profit/loss

Calculation:

Total cost price = 2 × 400 = Rs. 800

When he sells a profit of 150%,

Selling price = 400 + 50% of 400 = Rs. 600

When he sells at a loss of 150%,

Selling price = 400 – 50% of 400 = Rs. 200

Total selling price = 600 + 200 = Rs. 800

Now, as the total selling price and cost price is the same so overall there is no profit and no loss

Q63. Answer: (b) 28

Calculation:

Let the cost price be Rs. 100

Marked price = 100 + 60% of 100 = Rs. 160

Profit = 15.2% of 100 = Rs. 15.2

Selling price = 100 + 15.2 = Rs. 115.2

Now,

Discount = 160 – 115.2 = Rs. 44.8

Therefore Discount % = (44.8/160) × 100 = 28%

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Q64. Answer: (b) 23

Calculation:
cbrt729 + √441 – cbrt343 = ?
=> 9 + 21 – 7 = ?
=> 30 – 7 = ?
=> 23 = ?
Therefore The required value is 23

Q65. Answer: (a) 7.5

Calculation:
Let Dinesh complete the book in x days
Time taken by Parvesh = x – 20 days
Dinesh's efficiency = 1/x
Parvesh's efficiency = 1/(x – 20)
According to the question,
1/(x – 20) = 3 × (1/x)
=> x = 3x – 60
=> x = 30
So, Dinesh's efficiency = 1/30
Parvesh's efficiency = 1/10
Efficiency of both of them = (1/30) + (1/10) = 4/30
Therefore Time is taken by them to complete the book = 30/4
= 7.5 days
Shortcut TrickParwesh = 3 Dinesh
efficiency days no of days
Parwesh/Dinesh 3/1 1/3 10/30
(3 - 1)→ 20, 2→ 20, 1→ 10
Total work = 30 × 1 = 30
total efficiency 3 + 1 = 4
The time is taken by them to complete the book 30/4 = 7.5 days

Q66. Answer: (c) 1.25

Calculation:
Let the actual time taken by t mins
Now,
Speed = 2km/hr = (2/60) km/min = (1/30) km/min
Time taken = t + (5/2) mins
Distance = (1/30) × {t + (5/2)} km
Also,
Speed = 2.5 km/hr = (2.5/60) km/min = (1/24) km/min
Time taken = (t – 5) mins
Distance = (1/24) × (t – 5) km
Now,
(1/30) × {t + (5/2)} = (1/24) × (t – 5)
=> (t/4) – (t/5) = (1/2) + (5/4)
=> t/20 = 7/4
=> t = 35 mins
Therefore Distance = (1/30) × {35 + (5/2)} = 75/60 = 1.25 km

Q67. Answer: (d) Goa

According to the graph, the highest number of people (500) says that their favourite travel destination is Goa.

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Q68. Answer: (c) 2250

Number of people whose favourite travel destination is
Goa = 500
Hong kong = 400
Dubai = 150
Singapore = 350
London = 350
Hawai = 50
Mauritius = 450
Therefore Total number of people who responded to the survey = 2250

Q69. Answer: (d) 8

Total number of people who responded to the survey = 2250
Number of people whose favourite travel destination is Hawai = 50
Therefore Measure of central angle = (50/2250) × 360° = 8°

Q70. Answer: (d) 40%

Total number of people who responded to the survey = 2250
Number of people whose favourite travel destination is Goa = 500
Number of people whose favourite travel destination is Hong kong = 400
Number of people whose favourite travel destination is Goa + Hong kong = 500 + 400 = 900
Therefore Required percentage = (900/2250) × 100 = 40%

Q71. Answer: (a) 68

Calculation:
As each angle of a rectangle is 90°
Length = √{(diagonal)² – (breadth)²} = √{(26)² – (10)²} = 24 cm
Therefore Perimeter of a rectangle = 2(length + breadth) = 2(24 + 10) = 68 cm

Q72. Answer: (d) 9

Calculation:
Let's say the polygon has n sides. We also know that the sum of interior angles of a polygon with side n is (n – 2) × 180°
According to the question,
=> (n – 2) × 180° = 1260°
=> n – 2 = 7
=> n = 9

Q73. Answer: (a) 19404

Calculation:
We know that,
Volume of cylinder = π × radius² × height
Here, Radius = diameter/2 = 42/2 = 21cm
And, Height = 14 cm
Therefore Volume = π × (21)² × 14 = 19404 cm³

Q74. Answer: (d) (3√3 + 2)/6

Calculation:
As, mangle B = 90° and mangle A = 30°
By angle sum property of the triangle
mangle C = 180° – (mangle A + mangle B) = 180° – (90° + 30°) = 60°
Now,
Therefore SinC + (1/3) = sin60° + (1/3) = (√3/2) + (1/3) = (3√3 + 2)/6

Q75. Answer: (b) 5/12

Given:

Cos D = 5/13

Calculation:

Base/hypotenuse = 5/13

So, Base = 5k and Hypotenuse = 13k

For a right-angled triangle,

Perpendicular = √{(Hypotenuse)² – (base)²} = √{(13k)² – (5k)²} = 12k

Now, if we are taking angle F

Base = perpendicular for angle D = 12k

Perpendicular = base for angle D = 5k

Therefore tan F = 5k/12k = 5/12

Q76. Answer: (a) Unemployment during recessionary phase of trade cycle

The correct answer is Unemployment during the recessionary phase of the trade cycle.

Key Points

• Unemployment occurs when a person who is actively searching for employment is unable to find work.
• It is often used as a measure of the health of the economy.
• Types of Unemployment
• Disguised Unemployment:
• The phenomenon is when more people are employed than actually needed.
• Example: agricultural and the unorganized sectors of India.
• Seasonal Unemployment:
• Unemployment occurs during certain seasons of the year.
• Example: Agricultural labourers.
• Structural Unemployment:
• Unemployment arising from the mismatch between the jobs and the skills of the available workers in the market.
• Many people do not get jobs due to a lack of requisite skills and due to the poor educational level.
• Cyclical Unemployment:
• It is the result of the business cycle.
• Unemployment rises during recessions and declines with economic growth.
• Technological Unemployment:
• It is the loss of jobs due to changes in technology.
• Frictional Unemployment:
• Frictional Unemployment is also known as Search Unemployment.
• It refers to the time lag between jobs when an individual is searching for a new job or is switching between jobs.
• Vulnerable Employment:
• This means people are working informally without proper job contracts.
• These persons are deemed ‘unemployed’ since records of their work are never maintained.

Q77. Answer: (b) Sixth

The correct answer is Sixth.

Key Points

• NABARD stands for National Bank for Agricultural and Rural Development.
• It is headquartered in Mumbai and was established on 12th July 1982 on the recommendations of B. Sivaraman Committee.
• It was established during the Sixth Five Year Plan, which was from the year 1980-85.

Q78. Answer: (b) Humayun

• The Mughal style of painting was started by the second Mughal Emperor Humayun.
• He brought along with him 2 eminent Persian artists - Abd al-Samad and Mir Sayyed Ali when he returned from his exile. Based on his instructions, these artists created many paintings which were different from the traditional Persian art. Hence, a new style of art was born which was called ‘Mughal Painting’.

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Q79. Answer: (a) Champaran

• Champaran is related to the Tinkathia Pratha.

• The European planters practised illegal methods for cultivating indigo in Champaran in Bihar and forced the Indian peasants also to cultivate it on 3/20th of their land.

• This was known as Tinkathia Pratha. However, with the help of Gandhi and Rajendra Prasad, the peasants of Champaran organized a Satyagraha and were successful at abolishing it.

Q80. Answer: (d) Extinct volcano - Etna

• Mt. Damavand is a silent volcano in Iran.

• Stromboli is one of the three active volcanoes of Italy.

• Krakatau is a volcanic Mountain between the islands of Sumatra and Java.

• Etna is an active volcano in Italy.

Q81. Answer: (a) Aravali

The correct answer is Aravali.

Key Points

• Aravali

• Aravalli Range is a mountain range in the North-West part of India, the length of the range is approximately 692 km in a South-West direction.

• The literal meaning of the Aravalli Range is 'Line of Peaks'.

• The Aravalli range is starting from Delhi, passes through Southern Haryana and Rajasthan, and ending in Gujarat.

• Its direction in Rajasthan is from North-East to South-West.

• Thus, the Aravalli range extends from North-East to South-West in Rajasthan.

Additional Information

• Vindhyachal

• Vindhyachal Mountain Range is one of the important mountain ranges in India.

• This mountain range is a part of the topographical division of Chhattisgarh.

• The mountain range of Vindhyachal extends from Gujarat to Bihar.

• Sonabhadra and Narmada's rivers originate from the Vindhayachal Mountain Range.

• The Vindhyachal Mountain Range also attracts tourists as the Bandhavgarh National Park is located in this range.

• The highest point of the Vindhyas is the Sad-Bhawna Shikhar (Goodwill Peak).

• Hindukus

• The main mountain ranges of India do not include the Hindu Kush range.

• The Hindu Kush is a mountain range that is 800 kilometers long and stretches through Afghanistan, Northern Pakistan, and Tajikistan.

• Mount Tirich Mir located in the Chitral District of Pakistan is the highest mountain of the Hindu Kush range.

• Satpura

• Satpura range is a series of seven mountains.

• It runs in an east-west direction south of the Vindhyas and in between the Narmada and the Tapi, roughly parallel to these rivers.

• The range rises in eastern Gujarat state running east through the border of Maharashtra and Madhya Pradesh to the east till Chhattisgarh.

• Dhupgarh near Pachmarhi on Mahadev hills is the highest peak of the Satpura range.

Q82. Answer: (c) Classical singing

• Pandit Jasraj has established his reputation in the field of classical singing.

• He is an Indian classical vocalist who belongs to the Mewati Gharana.

• He is a recipient of several awards and recognitions including Padma Bhushan, Padma Vibhushan, Lata Mangeshkar Puraskar, Sangeet Natak Akademi Award, and more.

Q83. Answer: (a) Iceland

The correct answer is Iceland.

Key Points

• Iceland became the first nation to impose equal pay for men and women.

• The new law became effective on January 1st, 2018.

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• According to the law, businesses and government organizations that employ at least 25 individuals must get government certification of their equal pay practices.

• If businesses cannot demonstrate that men and women are paid equally for the same job, they risk fines.

• The World Economic Forum has placed Iceland as the top country in the world for gender equality for nine years running prior to the passage of this law.

• Iceland was already a global leader in gender parity.

Additional Information

• In terms of international cricket, India is now only the second nation to adopt equal pay.

• A "pay equity policy" was recently announced by the Board of Control for Cricket in India (BCCI).

• The centrally contracted men's and women's players would get the same match fees, according to policy.

• The Global Gender Gap Index 2022 estimates that it will take 132 years to achieve full parity at the current rate of development.

• In 2022, New Zealand Cricket (NZC) and the country's players' organisation reached an agreement that allowed female cricketers to receive salaries on par with those of male players.

• Tennis has taken steps to increase pay equity for its players.

• All four major tennis tournaments now offer equal prize money to their male and female competitors.

Q84. Answer: (a) Shahrukh Khan

• Shahrukh Khan was honoured with the 24th Crystal Award at the World Economic Forum Meeting in January 2018 for his leadership in championing women’s and children’s rights in India.

• He is also the founder of the non-profit organisation Meer Foundation that provides support to acid attack victims.

Q85. Answer: (c) Quamrul Hassan

The correct answer is Quamrul Hassan.

Key Points

• On January 17, 1972, Bangladesh's national flag was formally adopted.

• It consists of a dark green banner on top of a red disc or sun.

• To make the red disc seem centered when the flag is flying, it is gently shifted toward the hoist.

• Artist Quamrul Hassan designed the Bangladesh National Flag.

Additional Information

• Nandalal Bose:

• One of the founders of contemporary Indian art and a significant player in contextual modernism was Nandalal Bose.

• Kazi Nazrul Islam:

• The national poet of Bangladesh is Kazi Nazrul Islam, a Bengali poet, author, and musician.

• Ziaur Rahman:

• Ziaur Rahman was a political figure and military officer from Bangladesh who presided over that country from 1977 until 1981.

Q86. Answer: (b) Electron

The correct answer is Electron.

Key Pointsnucleon

• A nucleon can be either a proton or a neutron.

• The total number of protons and neutrons (often referred to as nucleons) in an atomic nucleus is known as the mass number (A).

• For each isotope of a chemical element, the mass number is different.

• Isotopes of the same element are identified by differences in their mass numbers, which differ only in the number of neutrons they contain.

• This is distinct from the atomic number (Z), which refers to the number of protons in a nucleus and hence uniquely identifies an element

• The mass number of an atom is thus, defined as the sum total of protons and neutrons.

• As protons and neutrons are also referred to as nucleons, their sum defining the mas number is hence called the nucleon number.

• In an atomic nucleus, nucleons thus have a net positive charge.

Q87. Answer: (d) All I, II and III

Baking soda is sodium bicarbonate which is used for various purposes such as baking, for making baking powder, as an antacid to neutralize excess acid in the stomach, and also soda-acid fire extinguishers.

Q88. Answer: (a) Both I and II

The minimum qualifications of a person to become a member of Lok Sabha as per the Article 84 of Indian Constitution are:

• Must be a citizen of India.

• Should have completed 25 years of age in case of Lok Sabha.

• Should not violate party discipline.

• Should not hold an office of profit.

• Should not be an unsound mind.

Q89. Answer: (a) 1/10^(th)

In Indian parliamentary system, the leader of the largest opposition party having not less than 1/10^(th) or 10% seats of the total strength of the house is recognized as the leader of the opposition in that House.

Q90. Answer: (a) Exit of the food from the stomach

The correct answer is the Exit of the food from the stomach

CONCEPT:

• The gastro-oesophageal sphincter allows contents to pass from the esophagus to the stomach but acts as a barrier to the reflux of gastric contents in a relaxed state.

• The neural control of the sphincter function is not fully understood.

• The gastro-oesophageal sphincter is found between the esophagus and the stomach.

EXPLANATION:

• The sphincter muscle in the stomach regulates the exit of food from the stomach.

• The muscle releases the food in small amounts into the small intestine.

• The oral cavity drains into a small pharynx present in the neck region, where the esophagus originates.

• The esophagus is a thin, long tube that runs through the neck, chest area, and diaphragm, and leads to a 'J'-shaped pouch-like structure called the stomach.

Q91. Answer: (d) Classification

The correct answer is Classification.

Concept:

• Classification is not a single-step process, it involves a hierarchy of steps in which each step represents a rank or category.

• This category is a part of the overall taxonomic arrangement so it is called the taxonomic category, and all these categories together constitute the taxonomic hierarchy.

• Taxonomic hierarchy - It is the process of arranging various organisms into successive levels of the biological classification either in a decreasing or an increasing order from kingdom to species and vice versa.

EXPLANATION:

• Classification of species is a reflection of their evolutionary relationships.

• It is based on how closely two species are related to each other and how many similar characteristics they share with each other.

Term	Explanation
Species	Lowest taxonomic rank for classification of living organisms consisting of similar genes
Genus	Second lowest taxonomic rank for biological classification
Kingdom	Second highest lowest taxonomic rank for biological classification
Phylum	Third highest lowest taxonomic rank for biological classification

Q92. Answer: (b) Google

The correct answer is Google.

Key Points

• The National Skill Development Corporation (NSDC) has launched the Android Skill Development program to impart mobile development training on the Android and Web platform and to improve the quality of the mobile app development ecosystem in India.

• The program is launched in collaboration with Google.

• The NSDC is a public-private enterprise under the Ministry of Skill Development & Entrepreneurship.

• It will train developers to create applications for the mobile platform.

• The NSDC and Google India will work together to focus on upskilling Android trainers.

Additional Information

• Google

• It was founded on September 4, 1998, by Larry Page and Sergey Brin while they were PhD students at Stanford University in California.

• Google is the largest search engine on the internet and one of the world's most influential technology companies.

• Google headquarters is located in Mountain View, California. Hence, Option 3 is correct.

• Googleplex is a name made by combining the words Google and complex, and it is a series of buildings that cover a space of 3,100,000 square feet.

• Googleplex was built in 2004 and the interiors were redesigned by architect Clive Wilkinson in 2005.

• Google first leased the space in 2003 and bought it later in 2004.

Q93. Answer: (d) GraphAir

• GraphAir is the technology that has been developed by Australian Scientists to transform soybean oil into graphene.

• This technology grows graphene film with a natural precursor in ambient air, thus making its production simpler and faster.

Q94. Answer: (a) Asia Index

'S&P BSE Bharat 22 Index' was launched by Asia Index in August 2017 in order to track the performance of select state-run companies in which the central government has divested its stake.

Q95. Answer: (a) Ancient Monuments and Archaeological Sites and Remains (AMASR) Act, 1958

• On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Site and Remains (Amendment) Bill, 2017 which amends the Ancient Monuments and Archaeological Sites and Remains (AMASR) Act, 1958.

• The bill was passed to allow the government to take up the infrastructure projects around the protected monuments within prohibited areas.

Q96. Answer: (b) hundred

• An earthquake of magnitude 6 on Richter scale has hundred times more destructive energy than an earthquake of magnitude 4.

• The Richter scale is a base 10 logarithmic scale which is used to measure the magnitude of the earthquake.

• This means that an earthquake with magnitude 6 would be 10 times stronger than magnitude 5 and 100 times stronger than magnitude 4.

Q97. Answer: (b) Both A and B

• In 2017, Gary Cahill captained the Premier League team, Chelsea.

• In 2017, Jordan Henderson captained the Premier League team, Liverpool.

• Germany hosted the 2017 AIBA World Boxing Championships.

Q98. Answer: (b) NASSCOM

• NASSCOM is the premier trade body of and the chamber of commerce of the IT-BPO industry in India.

• NASSCOM stands for National Association of Software and Services Companies.

• It is a non-profit organisation which was established in 1988.

Q99. Answer: (b) 125

The correct answer is 125.

CALCULATION:

Mass (m) = 10 kg and Velocity (v) = 5 m/s

Kinetic energy = $1/2\ mv^2$

= $1/2x10x5^2$

= 125 J

Q100. Answer: (a) 2g

Calculation:

Mass of earth = m1 ; Mass of planet = 2m1

Acceleration due to gravity on earth, $g= Gm1m2/ r^2$

Acceleration due to gravity on the planet,

$g1= 2Gm1m2^2 / r^2$

g1= 2Gm1 2 / r2 (Since the mass of planet = m2=2m1)
g1 = 2g
Therefore, 2g is the correct answer.

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