SSC CHSL Previous Paper 41 (Held On: 22 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) expansion
(b) patronag
(c) conctituet
(d) presipitat

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.

In physically

A- fit people, calorie restriction

B- and periodic fasting slows

C- down the ageing process

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

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'.

Data of seizure of tiger body parts reveal that of the 14 cases, five (was reported) inside their serves.

(a) Was reports
(b) Were reported
(c) Is reported
(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'.

A simple glance at one’s garden (uplifted) the mood.

(a) Uplift
(b) Uplifts
(c) Uplifting
(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.

Exercising a compelling charm which inspires devotion in others

(a) Vile
(b) Charismatic
(c) Offensive

(d) Odious

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

A person who is intolerant towards those holding different opinions

(a) Clement
(b) Magnanimous
(c) Complaisant
(d) Bigot

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

Let bygones be bygones

(a) Even bad memories become memorable.
(b) The past will return to haunt you unless you completely forget.
(c) Forget past offences or causes of conflict and be reconciled.
(d) Your past deeds will never leave you.

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

Come in handy

(a) Be that type of a person who loves to work with his hands.
(b) Turn out to be useful.
(c) Always be ready to help strangers in need.
(d) Be always prepared for any kind of hardship.

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.

Teachers _____ the country require proper training at the appropriate time in their careers. On account of the unique occupational dynamic, together _____ the constant pressure to address the growing expectations of society and the _____ of teaching pedagogy, teachers need to be engaged in continual re- examination of their role. This cannot be achieved unless they incorporate the subjects as varied ____ applied ethics, human psychology,spirituality, _____ values, peace studies, and organisational behaviour.

Q9. spirituality, _____ values, peace studies, and organisational behaviour.

(a) Democracy
(b) Democrat
(c) Democrats
(d) Democratic

Q10. subjects as varied _____ applied ethics,

(a) As
(b) Like
(c) Same
(d) Such

Q11. society and the _____ of teaching pedagogy,

(a) Effective
(b) Effectively
(c) Effectiveness
(d) Effectives

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Q12. dynamic, together _____ the constant pressure

(a) At
(b) From
(c) Into
(d) With

Q13. Teachers _____ the country require proper training

(a) Cross
(b) Over
(c) Beyond
(d) Across

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) Maineveer
(b) Maneuver
(c) Maneover
(d) Manever

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.

"Bring me a glass of water," said the saint to his followers.

(a) The saint asked his followers to bring him a glass of water.
(b) The saint asked for a glass of water.
(c) The saint wanted a glass of water from his followers.
(d) The saint asked his followers to brought him a glass of water.

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.

Somebody hit the beggar with a stone.

(a) The beggar was hit with a stone.
(b) The beggar was hurt by a stone.
(c) The beggar is hit by a stone.
(d) The beggar hit with a stone.

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

The debate

P : on allowing euthanasia to

Q : protect the dignity of patients in a

R : vegetative state has become a key question

(a) PRQ
(b) RPQ
(c) QRP
(d) PQR

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

Anile

(a) Senile
(b) Young
(c) Foolish
(d) Soft

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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.

Thwart

(a) Stop
(b) Hinder
(c) Balk
(d) Assist

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

Insolent

(a) Shy
(b) Sorrowful
(c) Happy
(d) Rude

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

Supercilious

(a) Modest
(b) Sociable
(c) Arrogant
(d) Rational

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.

The purpose of life is not to simply survive, but to discover _____fulfillment.

(a) Inner
(b) Outer
(c) Outmost
(d) Top

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.

I _____ successful, I just know it.

(a) Would be
(b) Will be
(c) May be
(d) Can be

Q24. In the following question, some parts 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'.

Nivedita’s love for everything Indian (1)/ was eloquently demonstrated in her serve of tea to Lady Minto, (2)/ who was on a visit to the Dakshineshwar temple. (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'.

The Taj Mahal can be (1)/ called jewel (2)/ of the nation. (3)/ No error

(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.

Death : Birth : : ? : ?

(a) Up : Slow
(b) Win : Match
(c) Export : Import
(d) Huge : Wide

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

44 : 47 : : 58 : ?

(a) 61
(b) 63
(c) 65
(d) 59

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

NOS : PQU : : KLP : ?

(a) LNS
(b) MNO
(c) KOR
(d) MNR

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

(a) Rectangle - Perimeter
(b) Circle - Circumference
(c) Perimeter - Square
(d) Triangle - Perimeter

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) 4 - 16
(b) 9 - 81
(c) 6 - 36
(d) 7 - 47

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

(a) BFJN
(b) GKOS
(c) LPQV
(d) MQUY

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

1. Terrible 2. Therefore 3. Theatre 4. Terminal 5. Thankful

(a) 41532
(b) 32415
(c) 12345
(d) 54123

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

7, 11, 15, 19, 23, ?

(a) 29
(b) 30
(c) 27
(d) 31

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

NVX, LTV, JRT, ?, FNP

(a) GRS
(b) GRP
(c) IPR
(d) HPR

Q35. Weight of L is one - fourth of the weight of V. Weight of V is twice of the weight of B. Weight of B is half of the weight of C. Weight of C is thrice of the weight of H. The weight of V is greater than the weight of how many persons among L, B, H and C?

(a) 3
(b) 2
(c) 1
(d) 0

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

Pseudonym

(a) Son
(b) Does
(c) Pose
(d) Pendulum

Q37. In a certain code language, “TOLDER” is written as “WSQGIW”. How is “SPIRAL” written in that code language?

(a) NVTQEV
(b) ULQEWM
(c) VTNUEQ
(d) NOLQVW

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

10 × 4 ÷ 5 - 80 + 16 = ?

(a) 3
(b) 31
(c) 16
(d) 12

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

16 ÷ 4 – 50 × 4 + 18 = 26

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

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Q40. If 3$8 = -50, 3$5 = -20 and 2$3 = -10, then find the value of 9$1 = ?

(a) 10
(b) -20
(c) 90
(d) 80

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

ABCABcaBC, ABCAbcABC, ABCabCABC, ABcaBCABC, AbcABCABC, _____.

(a) ABCABCabC
(b) abCABCABC
(c) ABCABcaBC
(d) ABCAbcABC

Q42. The following is a map showing a route for a cycle race. The route starts and goes 12 km East, then there is a turn towards North where the route goes on for 5 km, then there is a turn towards East where the route goes on for 11 km, then there is a right turn from where the route goes on 5 km to reach the end. What is the position of the end with respect to that start?

(a) 1 km East
(b) 23 km East
(c) 23 km West
(d) 1 km West

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

Statement I: All icons are drawing.

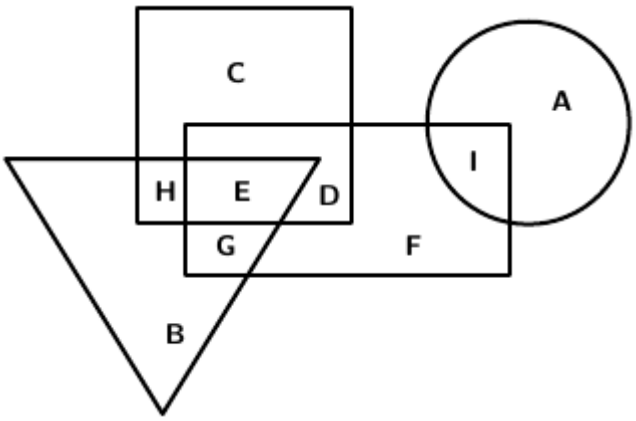
Statement II: No portraits are icons.

Conclusion I: Some drawings are portraits.

Conclusion II: All portraits are drawing.

(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 Hairstylists, circle represents Food stylists, triangle represents Playwrights and square represents Indians. Which set of letters represents Indians who are not Hairstylists?



(a) ED
(b) HC
(c) GD
(d) GFI

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

HVJ, NBP, THV, ZNB, ?

(a) ESG
(b) GUI
(c) FTH
(d) HVI

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

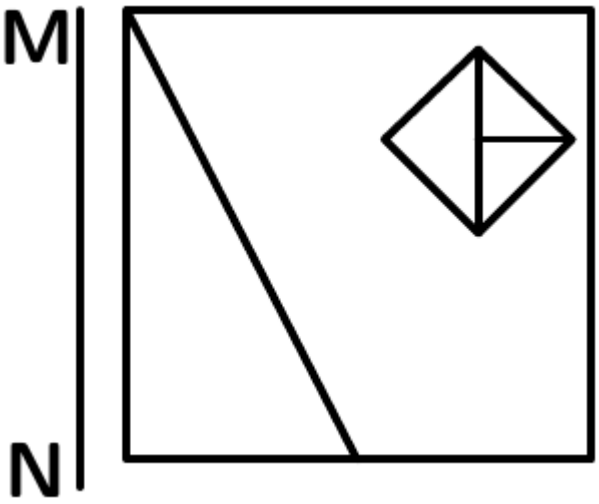
13, 17, 26, 42, 67, ?

(a) 103
(b) 91
(c) 109
(d) 111

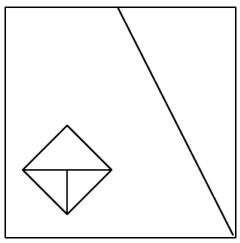
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives

(a) (8, 24, 16)
(b) (3, 9, 6)
(c) (14, 42, 28)
(d) (9, 36, 18)

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

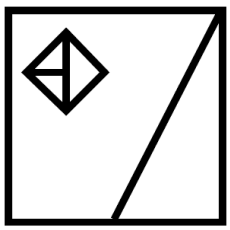


(a)

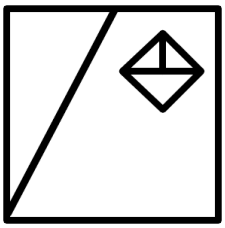


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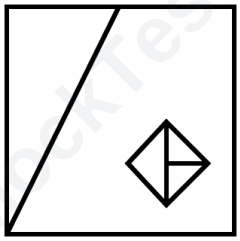
(b)



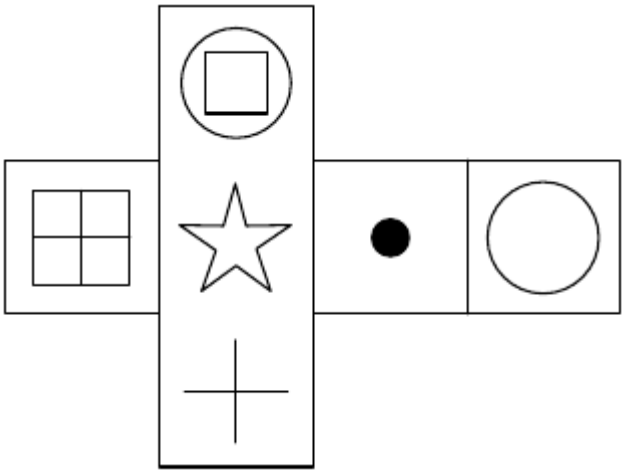
(c)



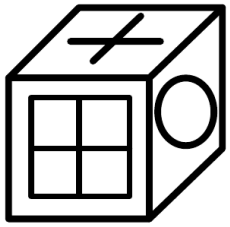
(d)



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

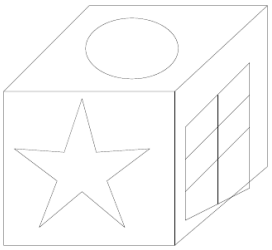


(a)

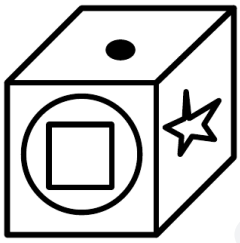


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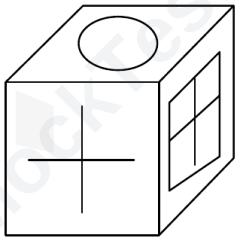
(b)



(c)



(d)



Q50. A word is represented by only set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix - I are are numbered from 0 to 4 and that of Matrix - II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example ‘C’ can be represented by 41, 34 etc and ‘Y’ can be represented by 67, 78 etc. Similarly, you have to identify the set for the word ‘SOWN’.

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

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

(a) 21, 55, 40, 86
(b) 41, 58, 40, 88
(c) 44, 66, 43, 89

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(d) 95, 68, 65, 97

QUANTITATIVE APTITUDE

Q51. The difference between 44 % of a number and 33% of the same number is 286. What is the 54% of that number?

(a) 1564
(b) 1404
(c) 1456
(d) 1304

Q52. Find the number of zeroes in 129!

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

Q53. The two lines 3x – 8y = 16 and 2x + 4y = 6 intersect at (a, b). Find the value of $a^2 – 4b^2$.

(a) 5
(b) 10
(c) 15
(d) 20

Q54. If $a^3 + a – 1 = 0$ then find the value of a^5 + a^4 + a - 2.

(a) $-3a^3$
(b) 0
(c) a^3
(d) $-2a^3$

Q55. Which of the following conditions is correct for a right angled triangle?

(a) Sum of the two angles of a triangle is greater than the third angle
(b) Sum of the two angles of a triangle is less than the third angle
(c) Sum of the two angles of a triangle is equal to the third angle
(d) None of these

Q56. Which of the following combination of sides results in the formation of obtuse angled triangle?

(a) 11, 7, 13
(b) 5, 6, 8
(c) 4, 5, 6
(d) None of these

Q57. In an exam, 87% students passed and 2093 failed. What is the total number of students appearing in the exam?

(a) 16100
(b) 14007
(c) 15200
(d) 18200

Q58. The ratio of present ages of Sheetal and Divya is 6 : 5. After 8 years, their ages will be in the ratio of 22 : 19. What is the present age (in years) of Divya?

(a) 22
(b) 38
(c) 34
(d) 30

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Q59. In a bucket, paint and oil are in the ratio 7 : 5. 24 litres of mixture is drawn off and 24 litres of oil is added. If the ratio of paint and oil becomes 1 : 1, then how many litres of paint was contained in the bucket initially?

(a) 49
(b) 63
(c) 84
(d) 98

Q60. The average age of Sita and Gita is 30 years. If Rita replaces Sita, then the average age will become 28 years and if Rita replaces Gita, then the average age will become 32 years. What are the respective ages (in years) of Sita, Gita and Rita?

(a) 40, 44, 36
(b) 44, 40, 36
(c) 34, 26, 30
(d) 30, 26, 34

Q61. A sum of Rs. 800 becomes Rs. 1000 in 2 years at simple interest. What is the per annum rate of interest (in percent)?

(a) 12.5
(b) 25
(c) 8.5
(d) 17

Q62. D sells a table to E at a profit of 30% and E sells it to F at a loss of 30%. What is the ratio of cost prices of D and F?

(a) 100 : 91
(b) 100 : 130
(c) 100 : 126
(d) 1 : 1

Q63. The marked price of a calculator is Rs. 750. It is sold at a discount of 22%. If the cost price of the calculator is Rs. 500, then what is the profit (in Rs.)?

(a) 85
(b) 105
(c) 95
(d) 115

Q64. If √3 = 1.732, then what is the value of (√3 - 10/(√3) + √27) ?

(a) 1.154
(b) 1.577
(c) 1.464
(d) 2.358

Q65. P, Q and R alone can complete a work in 12, 15 and 20 days respectively. In how many days will they together complete the same work?

(a) 4
(b) 5
(c) 6
(d) 3.5

Q66. The distance between two cities X and Y is 270 km. First train starts from X at 7:00 a.m. and travels towards Y at 40 km/hr. Second train starts from Y at 8:30 a.m. and travels towards X at 30 km/hr. At what time (in a.m.) will both the trains meet?

(a) 10:00
(b) 11:00
(c) 11:30
(d) 12:30

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Directions

Direction: The bar graph shows the number of soldiers in the armies of different countries. Study the diagram and answer the following questions.



Q67. Which country has the least number of soldiers?

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

Q68. What is the ratio of the number of soldiers of country B to those of country D?

(a) 15 : 4
(b) 8 : 15
(c) 15 : 8
(d) 4 : 15

Q69. Number of soldiers of country F is greater than those of country A by _____.

(a) 50%
(b) 66.7%
(c) 300%
(d) 200%

Q70. If country D spends $20000 per soldier annually, then how much does it spend (in $ millions) on all its soldiers annually?

(a) 12
(b) 13
(c) 15
(d) 17

Q71. The perimeter and the breadth of a rectangle are 46 cm and 8 cm respectively. Calculate the length of its diagonal (in cm)

(a) 17
(b) 34
(c) 15
(d) 30

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Q72. Calculate the area (in cm²) of a circle whose diameter is 7 cm.

(a) 38.5
(b) 77
(c) 32.5
(d) 65

Q73. Find the surface area (in cm²) of a sphere of diameter 28 cm.

(a) 3422
(b) 3852
(c) 2464
(d) 3550

Q74. What is the value of (2 + tan60^o)?

(a) 3
(b) 2/√3
(c) 4/√3
(d) 2 + √3

Q75. ΔXYZ is right angled at Y. If sinX = 12/13, then what is the value of cosecZ ?

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

GENERAL AWARENESS

Q76. A worldwide financial messaging network which exchange messages between banks and financial institutions is known as _____.

(a) CHAPS
(b) SWIFT
(c) NEFT
(d) SFMS

Q77. 'Marketing Support and Services Scheme' (in the Eleventh Plan) supports artisans related to _____.

(a) Handicrafts
(b) Leather goods
(c) Gems and Jewellery
(d) Handlooms

Q78. Himalaya has emerged from which of the geosyncline?

(a) Tethys
(b) Shiwalik
(c) Indo-brahma
(d) Godavari

Q79. Trans-himalaya rivers are: _____.

(a) Sutlej, Indus, Ganga
(b) Brahmaputra, Indus, Sutlej
(c) Brahmaputra, Indus, Ganga
(d) Brahmaputra, Sutlej, Ganga

Q80. Buddha was born in _____.

(a) Vaishali
(b) Lumbini
(c) Kapilavastu

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(d) Patliputra

Q81. The first important ruler to emerge from the Chola Dynasty was _____.

(a) Vijayalaya
(b) Rajaraja Chola
(c) Rajendra Chola
(d) Rajadhiraj Chola

Q82. V.G. Jog is famous for which musical instrument?

(a) Sitar
(b) Violin
(c) Tabla
(d) Santoor

Q83. Which company has signed an agreement with UNESCO to launch virtual reality content and 360 degree videos on Indian heritage sites?

(a) Nokia
(b) Sunstar
(c) Samsung
(d) Amazon

Q84. In which of the following fields Yamuna Krishnan has been awarded with 9th Infosys award on January 10, 2018?

(a) Biological Sciences
(b) Social Science
(c) Physical Sciences
(d) Mathematical Science

Q85. What is the official language of Nepal?

(a) Bhojpuri
(b) Tharu
(c) Hindi
(d) Nepali

Q86. Isotopes of an element have _____.

(a) Same physical properties
(b) Different chemical properties
(c) Different number of neutrons
(d) Different atomic number

Q87. Which of the following statements are CORRECT?

I. The soap molecules form structures called micelles.
II. Soap micelles cannot scatter light.
III. Oily dirt gets collected in the centre of the micelle.

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

Q88. Article 36 to Article 51 of Indian Constitution mainly deals with Directive Principles of State Policy, given in _____ of Indian Constitution.

(a) Part II
(b) Part III
(c) Part IV
(d) Part V

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Q89. Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth comes under which category of Fundamental Rights in Indian Constitution?

(a) Right to Freedom
(b) Right to Constitutional Remedies
(c) Right to Equality
(d) Right to Freedom of Religion

Q90. Which type of epithelial tissue allows transportation of substances through a selective permeable surface in the lining of food vessels or lung alveoli?

(a) Simple squamous epithelium
(b) Stratified squamous epithelium
(c) Ciliated columnar epithelium
(d) Cuboidal epithelium

Q91. Bacteria, blue-green algae or cyanobacteria and mycoplasma are examples of organisms of which kingdom?

(a) Plantae
(b) Monera
(c) Protista
(d) Animalia

Q92. In November 2017, who launched the ‘Deen Dayal SPARSH Yojana' for school children?

(a) Jayant Sinha
(b) Prakash Javadekar
(c) Manoj Sinha
(d) ArunJaitley

Q93. Google and NASA have joined hands to identify which two new planets around Kepler 90?

(a) Kepler 80i, Kepler 90g
(b) Kepler 90g, Kepler 80g
(c) Kepler 80g, Kepler 90i
(d) Kepler 82i, Kepler 90g

Q94. In April 2017, five associate banks and Bharatiya Mahila Bank were merged with the State Bank of India (SBI). What is the approximate Balance sheet size of SBI following the merger?

(a) Rs. 41 lakh crore
(b) Rs. 55 lakh crore
(c) Rs. 65 lakh crore
(d) Rs 75 lakh crore

Q95. India was ranked at which place among emerging economies on Inclusive Development Index (IDI-2018) released by World Economic Forum (WEF)?

(a) 26^(th)
(b) 47^(th)
(c) 62^(nd)
(d) 81^(st)

Q96. Find the resistance (in mega Ω) of a wire of length 10 m, cross sectional area 1 cm^2 and made of a material of resistivity 100 Ωm.

(a) 1000
(b) 20
(c) 500
(d) 10

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Q97. Anything kept in a fluid experiences an upward force called _____.

(a) Torque
(b) Moment
(c) Pressure
(d) Upthrust

Q98. By volume, 21% of air is _____.

(a) hydrogen
(b) oxygen
(c) nitrogen
(d) carbon dioxide

Q99. Which of the statements given below are correct?

A) Rafael Nadal won the Tennis 2017 Wimbledon Championships Men's Singles.

B) Aryan Tari won the 2017 World Junior Chess Championship.

C) Viktor Axelsen won the Men's Singles Badminton 2017 BWF World Championships.

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

Q100. In Microsoft Word, _____ provides options to switch between Normal, Web Layout, Print Layout, Outline and Reading Views.

(a) Standard tool bar
(b) View Buttons
(c) Formatting tool bar
(d) Tab stop

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) expansion

The solution is in Hindi. Read it online.

Q2. Answer: (a) ABC

The correct answer is 'ABC'

Key Points

• In the fixed part, 'in' is a preposition, and 'physically' is an adverb hence we need an adjective and a noun to complete this phrase and it is given in part A i.e. 'fit people.'

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• the last part of part A is 'calorie restriction' hence we need the same type of noun and it is given in part b so this is going to be the second part.

• So the correct sequence is- ABC

So the correct sentence- In physically fit people, calorie restriction and periodic fasting slows down the ageing process.

Q3. Answer: (b) Were reported

The correct answer is 'were reported'

Key Points

• In the given sentence, the subject is 'Data' and the verb for this is 'reveal' and it is a plural verb because the subject is plural.

• After the comma there is one more subject that is 'five' hence it is a plural noun so we need a plural verb for this also, it is written in the passive voice because the doer of the verb 'reported' is somebody else.

So the correct sentence is- Data of seizure of tiger body parts reveal that of the 14 cases, five were reported inside their serves.

Q4. Answer: (b) Uplifts

The correct answer is 'uplifts'

Key Points

• In the given sentence, the subject is 'glance' that is a singular noun hence use the singular verb for this.

• So 'uplifts' is the correct answer.

• The correct sentence is- A simple glance at one's garden uplifts the mood.

Q5. Answer: (b) Charismatic

The correct answer is 'Charismatic'

Key Points

• Let's find out the meaning of given words:-

• Vile - extremely unpleasant.

• Charismatic - exercising a compelling charm that inspires devotion in others.

• Offensive - causing someone to feel resentful, upset, or annoyed.

• Odious - extremely unpleasant; repulsive.

• Clearly, option 2 is the correct answer.

Q6. Answer: (d) Bigot

The correct answer is 'Bigot'

Key Points

• Let's find out the meaning of the following words:-

• Clement - weather that is mild.

• Magnanimous - generous or forgiving, especially towards a rival or less powerful person.

• Complaisant - willing to please others or to accept what they do or say without protest.

• Bigot - a person who is intolerant towards those holding different opinions; dogmatist.

• Thus, option 4 is the correct answer.

Q7. Answer: (c) Forget past offences or causes of conflict and be reconciled.

The correct answer is '3'

Key Points

• The meaning of the given idiom is- 'forget past offenses or causes of conflict and be reconciled.'

• Let's see an example-

• He had to be charming to this very important customer, but he also wanted to like him, as a man, to let bygones be bygones.

Q8. Answer: (b) Turn out to be useful.

The correct answer is '2'

Key Points

• The meaning of the given idiom 'come in handy' is 'turn out to be useful.'

• Let's see an example-

• the sort of the junk that might come in handy one day

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Q9. Answer: (d) Democratic

The correct answer is 'Democratic'

Key Points

• Here, blank is directly followed by noun values. So, an adjective should be used in order to modify the noun.

• Thus, option 4 i.e. democratic is the correct answer.

Q10. Answer: (a) As

The correct answer is 'as'

Key Points

• Here, the concept of conjunction is brought under consideration. Since, "as" is already given, so paired conjunction as.....as to be used.

• Hence, option 1 is the correct answer.

Q11. Answer: (c) Effectiveness

The correct answer is 'Effectiveness'

Key Points

• Since, the blank is followed by a preposition and a preposition is used to define noun or pronoun. So, noun effectiveness is to be filled in the blank.

• Hence, option 3 is the correct answer.

Q12. Answer: (d) With

The correct answer is 'with'

Key Points

• Here, context explains that teachers have unique dynamics in their occupation, and with that, they have constant pressure to address society. So, the preposition 'with' best fits the blank here.

• Hence, option 4 is the correct answer.

Q13. Answer: (d) Across

The correct answer is 'Across'

Key Points

• On looking at the above-given passage, we observe that it is based on evaluation of teaching method in the country involving ethics, human psychology, etc. in their practices. The given blank would be filled by a preposition. It shows that teaching method done in each part of the country.

• Clearly, option 1 is not the answer.

• Now, find the uses of the following prepositions:-

• overextending directly upwards from; above on the top.

• beyond - at or to the further side of.

• across - from one side to the other of (a place, area, etc.).

• Thus, option 4 i.e. across gives the most meaningful sense to the context. So, option 4 is the correct answer.

Q14. Answer: (b) Maneuver

The correct answer is '2'

Key Points

• The correct spelling is 'Maneuver'

• The meaning of the given word is- A physical movement or series of moves requiring skill and care.

• Let's see an example-

• snowboarders performed daring maneuvers on precipitous slopes

Additional Information

• There is an alternate spelling of the word- 'Manoeuvre'

Q15. Answer: (a) The saint asked his followers to bring him a glass of water.

The correct answer is '1'

Key Points

• Let's see the rules of changing direct speech into indirect speech-

• The tense of the sentence will change.

• In the imperative sentence, the verb will become the infinitive verb.

• Also, the verb 'said to' will change into 'asked'

• In the given sentence, the subject is 'the saint' and the object of the verb 'asked' is going to be 'his followers'. Also, this is an imperative sentence so the verb 'bring' becomes the infinitive verb i.e. 'to bring'

• So the correct indirect speech is- The saint asked his followers to bring him a glass of water.

Q16. Answer: (a) The beggar was hit with a stone.

The correct answer is '1'

Key Points

• Let's see the following steps while changing the Active sentence into the passive sentence-

• The tense of the sentence will not change.

• The subject of the sentence will become the object and the object of the sentence will change into the subject.

• We have to use the 'be + v3' form in the sentence.

• So the correct passive is- The beggar was hit with a stone.

Q17. Answer: (d) PQR

The correct answer is '4'

Key Points

• In the fixed part, the noun is given that is a subject of the sentence hence after this we need a verb for this subject and it is has been given in part R but it cannot be the first part because this makes the sentence contextually incorrect.

• Hence, according to the context, the correct part is 'P'

• In part P, the preposition 'to' is used after this we need to write a verb that is given in part Q.

• Hence, the correct sequence is 'PQR' i.e. The debate on allowing euthanasia to protect the dignity of patients in a vegetative state has become a key question.

Q18. Answer: (b) Young

The correct answer is 'Young'

Key Points

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

• Anile→ of or resembling a doddering old woman especially

• Young→ relating to or characteristic of young people.

• Foolish→ lacking good sense or judgment; silly or unwise.

• Soft→ easy to mold, cut, compress, or fold.

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

Q19. Answer: (d) Assist

The correct answer is 'Assist'

Key Points

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

• Thwart→ prevent from succeeding in or accomplishing something.

• Stop→ Come or cause to come to an end.

• Hinder→ make it difficult for (someone)

• Balk→ hesitate to accept.

• Assist→ help by doing a share of work or by providing money or information.

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

Q20. Answer: (d) Rude

The correct answer is 'Rude'

Key Points

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

• Insolent→ rude and disrespectful.

• Shy→ nervous or timid in the company of other people.

• Happy→ feeling or showing pleasure or contentment.

• Sorrowful→ A feeling of deep distress caused by loss or disappointment.

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• Rude→ offensively impolite or ill-mannered.
• So according to the meaning of the given words, the correct answer is 'Rude'

Q21. Answer: (c) Arrogant

The correct answer is 'Arrogant'

Key Points

• Let's see the meaning of the given words-
• Supercilious→ having an air of contemptuous superiority.
• Modest→ Unassuming in the estimation of one's abilities.
• Arrogant→ having an exaggerated sense of one's own importance or abilities.
• Rational→ based on or accordance with reason or logic.
• So according to the meaning of the given words, the correct answer is 'Arrogant'

Q22. Answer: (a) Inner

The correct answer is 'Inner'

Key Points

• In the given blank, we need an adjective that will describe 'fulfillment'
• Inner is the most appropriate adjective in the options.
• Let's see an example-
• She got up and went into an inner office.

So the correct sentence is- The purpose of life is not to simply survive but to discover inner fulfillment.

Q23. Answer: (b) Will be

The correct answer is 'Will be'

Key Points

• In the given sentence, the time reference is given that is 'I just know it' this phrase can tell us that this action is going to complete in the future. Hence, from this, we can conclude that the other sentence should be in the future tense.

So the correct sentence is- I will be successful, I just know it.

Q24. Answer: (b) 2

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

Key Points

In part 2 of the sentence, the usage of 'serve' is incorrect Instead, use 'serving'

• In the given sentence, in part 2, 'in' is a preposition and 'her' is a prepositional object demonstrated as an action verb and generally we use gerund with the action verbs.

• Gerunds are generally used with the action that is currently happening and that has already performed. Hence, this action of 'demonstrated' is happened hence we need to use gerund with it.

So the correct sentence is- Nivedita’s love for everything Indian was eloquently demonstrated in her serving of tea to Lady Minto, who was on a visit to the Dakshineshwar temple.

Q25. Answer: (b) 2

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

Key Points

In part 2 of the sentence, the usage of 'a' before 'jewel' is missing. Hence, we need to use 'a jewel'

• According to grammar, Use 'a' and 'an' article with such proper nouns that are referred to as 'common nouns'
• Let's see an example-
• Hitesh is a Hitler. (Hitler here acts as a common noun.)
• In the given sentence, 'jewel of the nation' acts as a common noun hence use the indefinite article.

So the correct sentence is- The Taj Mahal can be called a jewel of the nation.

Q26. Answer: (c) Export : Import

The logic followed here is:-

Death is an antonym of Birth.

Checking options one by one in the table shown below for the similar word pair:-

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S.no.	First word of the word pair	Second Word of the word pair	Logic followed in the word pair or not
1)	Up	Slow	Up is not an antonym of Slow (so, the word pair doesn't follow the logic)
2)	Win	Match	Win is not an antonym of Match (so, the word pair doesn't follow the logic)
3)	Export	Import	Export is an antonym of Import (so, the word pair follows the logic)
4)	Huge	Wide	Huge is not an antonym of Wide (so, the word pair doesn't follow the logic)

As can be seen clearly from the table above that the word pair Export : Import is the similar word pair as it follows the logic.

Hence, the correct answer is "Export : Import".

Q27. Answer: (a) 61

The pattern followed here is,

44 + 3 = 47

Similarly,

58 + 3 = 61

Hence, the correct answer is " 61 ".

Q28. Answer: (d) MNR

The pattern followed here is,

Similarly,

Hence, the correct answer is " MNR ".

Q29. Answer: (c) Perimeter - Square

The pattern followed here is:-

Geometrical Figure - Outer Boundary of the Geometrical figure

1) Rectangle - Perimeter

Rectangle (Geometrical Figure) - Perimeter (Outer Boundary of a rectangle)

2) Circle - Circumference

Circle (Geometrical Figure) - Circumference (Outer Boundary of a circle)

3) Perimeter - Square

Perimeter (Outer Boundary of a square) - Square (Geometrical Figure)

4) Triangle - Perimeter

Triangle (Geometrical Figure) - Perimeter (Outer boundary of a triangle)

As can be clearly seen from the above all except Perimeter - Square follows the pattern. So, Perimeter - Square is the odd word pair.

Hence, the correct answer is "Perimeter - Square".

Q30. Answer: (d) 7 - 47

The pattern followed here is,

→ (First number)^2 = Second Number.

Let's check each option,

1) $(4)^2 = 16$

2) $(9)^2 = 81$

3) $(6)^2 = 36$

4) $(7)^2 \neq 47$ → Doesn't satisfy the logic.

Hence, the correct answer is " 7 - 47 ".

Q31. Answer: (c) LPQV

The pattern followed here is,

Here, LPQV follows the different pattern from other options.

Hence, the correct answer is " LPQV ".

Q32. Answer: (a) 41532

Given:

1. Terrible 2. Therefore 3. Theatre 4. Terminal 5. Thankful

According to the sequence in the English dictionary:

The correct order of the given words is:

4. Terminal

1. Terrible

5. Thankful

3. Theatre

2. Therefore

Hence, the correct answer is " 41532 ".

Q33. Answer: (c) 27

The pattern followed here is:-

Hence, the correct answer is "27".

Q34. Answer: (d) HPR

The pattern followed here is:-

As can be seen clearly from the above that the missing term in the series is HPR.

Hence, the correct answer is "HPR".

Q35. Answer: (a) 3

Given:-

Weight of C is thrice of the weight of H.

Let the weight of H be x.

Weight of C → 3x

Weight of B is half of the weight of C.

Weight of B → 1/2 × (3x) =3x/2

Weight of V is twice of the weight of B.

Weight of V → 2 × (3x/2) → 6x/2 = 3x

Weight of L is one-fourth of the weight of V.

Weight of L → 1/4 × (6x/2) → 6x/8 = 3x/4

Arrangement of People according to their weight:-

C = V (3x) > H (x) > B (3x/2) > L (3x/4)

As can be seen clearly from the above, the weight of V is greater than 3 person i.e. H, B and L.

Hence, the correct answer is "3".

Q36. Answer: (d) Pendulum

Given word → Pseudonym

1) Son → Pseudonym (as all the letters are present so, the word can be formed)

2) Does → Pseudonym (as all the letters are present so, the word can be formed)

3) Pose → Pseudonym (as all the letters are present so, the word can be formed)

4) Pendulum → Pseudonym (as the letters 'l' and one 'u' is missing in the given word pseudonym so, the word Pendulum CANNOT be formed)

Hence, the correct answer is "Pendulum".

Q37. Answer: (c) VTNUEQ

The pattern followed here is:-

TODDLER is related to WSQGIW as:-

Similarly,
SPIRAL is related to VTNUEQ as:-
Hence, the correct answer is "VTNUEQ".

Q38. Answer: (b) 31

Given → 10 × 4 ÷ 5 - 80 + 16

Symbol	Meaning
•	×
÷	•
•	÷
×	•

After changing the symbols with their meaning,
New Equation → 10 - 4 + 5 × 80 ÷ 16
Now, after applying BODMAS Rule and solving the new equation, we get:-
10 - 4 + 5 × 80 ÷ 16
10 - 4 + 5 × 5
10 - 4 + 25
10 + 25 - 4
35 - 4 = 31
Hence, the correct answer is "31".

Q39. Answer: (b) • and ×

Given Equation → 16 ÷ 4 - 50 × 4 + 18 = 26
Now, checking options one by one by interchanging the symbol:-
1) + and ÷
After interchanging + and ÷ in the given equation,
New Equation → 16 + 4 - 50 × 4 ÷ 18 = 26
Now, after applying BODMAS Rule and solving the equation, we get:-
16 + 4 - 50 × 4 ÷ 18 = 26
16 + 4 - 50 × 0.22 = 26
16 + 4 - 11 = 26
20 - 11 = 26
9 ≠ 26
Left hand side is not equal to right hand side.
2) + and ×
After interchanging + and × in the given equation,
New Equation → 16 ÷ 4 - 50 + 4 × 18 = 26
Now, after applying BODMAS Rule and solving the equation, we get:-
16 ÷ 4 - 50 + 4 × 18 = 26
4 - 50 + 4 × 18 = 26
4 - 50 + 72 = 26
4 + 72 - 50 = 26
76 - 50 = 26
26 = 26
Left hand side is equal to right hand side.
3) - and +
After interchanging - and + in the given equation,
New Equation → 16 ÷ 4 + 50 × 4 - 18 = 26
Now, after applying BODMAS Rule and solving the equation, we get:-
16 ÷ 4 + 50 × 4 - 18 = 26

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4 + 50 × 4 - 18 = 26
4 + 200 - 18 = 26
204 - 18 = 26
186 ≠ 26
Left hand side is not equal to right hand side
4) ÷ and ×
After interchanging ÷ and × in the given equation,
New Equation → 16 × 4 - 50 ÷ 4 + 18 = 26
Now, after applying BODMAS Rule and solving the equation, we get:-
16 × 4 - 50 ÷ 4 + 18 = 26
16 × 4 - 12.5 + 18 = 26
64 - 12.5 + 18 = 26
64 + 18 - 12.5 = 26
82 - 12.5 = 26
69.5 ≠ 26
Left hand side is not equal to right hand side.
Hence, the correct answer is "+ and ×".

Q40. Answer: (d) 80

The logic followed here is:-
(First number - Second number) × 10 = resultant number
In 3$8 = -50
(3 - 8) × 10 = -50
In 3$5 = -20
(3 - 5) × 10 = -20
In 2$3 = -10
(2 - 3) × 10 = -10
Similarly, In 9$1
(9 - 1) × 10 = 80
Hence, the correct answer is "80".

Q41. Answer: (b) abCABCABC

The pattern followed here is:-
An upper case letter is changed to a lower case letter and a lower case letter is changed to an upper case letter from right to left.

A	**B**	**C**	**A**	**B**	**c**	**a**	**B**	**C**
A	B	C	A	b	c	A	B	C
A	B	C	a	b	C	A	B	C
A	B	c	a	B	C	A	B	C
A	b	c	A	B	C	A	B	C
a	b	C	A	B	C	A	B	C

Alternate Method ABCABcaBC → ABCAbcABC → ABCabCABC → ABcaBCABC → AbcABCABC → abCABCABC
Hence, the correct answer is "abCABCABC".

Q42. Answer: (b) 23 km East

Given → The following is a map showing a route for a cycle race.
1)The route starts and goes 12 km East.
2) Then, there is a turn towards North where the route goes on for 5 km
3) Then, there is a turn towards East where the route goes on for 11 km.
4) Then, there is a right turn from where the route goes on 5 km to reach the end.
5) The position of the end with respect to that start is

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As can be seen clearly from the above that the distance from the start to the end is 12 + 11 = 23 km and the end point is in east direction with respect to the start point.

Hence, the correct answer is "23 km East".

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

Conclusion I: Some drawings are portraits → false

Conclusion II: All portraits are drawings → false

Hence, neither conclusion I nor conclusion II follows.

Q44. Answer: (b) HC

Given:-

Rectangle represents Hairstylists, Circle represents Food stylists, Triangle represents Playwrights and Square represents Indians.

The shaded portion represents the set of letters that represents Indians who are not Hairstylists.

Letters in the Rectangle that represents Hairstylists are → D E F G

Letters in the Circle that represents Food stylists are → A I

Letters in the Triangle that represents Playwrights are → B E G H

Letters in the Square that represents Indians are → C D E H

Set of letters that represents Indians who are not Hairstylists = Set of letters present in Square other than those that are present in Rectangle too.

Set of letters that represents Indians who are not Hairstylists are → H and C

Hence, the correct answer is "HC".

Q45. Answer: (c) FTH

The pattern followed here is,

From the above series, the next term in series is FTH

Hence, option 3) is the correct answer.

Q46. Answer: (a) 103

The pattern followed here is:-

Hence, the correct answer is "103".

Q47. Answer: (d) (9, 36, 18)

The logic followed here is:-

First number × 3 = Second number

First number × 2 = Third number

1) In (8, 24, 16)

8 × 3 = 24

8 × 2 = 16

2) In (3, 9, 6)

3 × 3 = 9

3 × 2 = 6

3) In (14, 42, 28)

14 × 3 = 42

14 × 2 = 28

4) In (9, 36, 18)

9 × 3 = 27 not 36

9 × 2 = 18

As can be seen clearly from the above that (9, 36, 18) doesn't follow the given logic and is therefore, the odd one out.

Hence, the correct answer is "(9, 36, 18)".

Q48. Answer: (b) [figure]

The correct mirror image of the given figure when a mirror is placed on the line MN is as shown below:-

Hence, the correct answer is "Option 2".

Additional Information

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• 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 downside and vice-versa.
• The water image is the mirror image in case if the mirror is placed horizontally below the object.

Q49. Answer: (b) [figure]

Given:-
Unfolded cube
The opposite sides of the cube when the unfolded cube will be folded are:-
1)
will be opposite to
2)
will be opposite to
3)
will be opposite to
Checking each option one by one:-
1) Cube in option figure (1) one can be formed as no two opposite faces of the cube are present adjacent to each other.
2) Cube in option figure (2) CANNOT be formed as two opposite faces of the cube i.e. Circle and Star are present adjacent to each other.
3) Cube in option figure (3) one can be formed as no two opposite faces of the cube are present adjacent to each other.
4) Cube in option figure (4) one can be formed as no two opposite faces of the cube are present adjacent to each other.
Hence, the correct answer is "Option 2".

Q50. Answer: (d) 95, 68, 65, 97

1) 21, 55, 40, 86 → L, R, I, N
2) 41, 58, 40, 88 → C, Q, I, T
3) 44, 66, 43, 89 → H, V, H, T
4) 95, 68, 65, 97 → S, O, W, N
Hence, the correct option is 4) 95, 68, 65, 97

Q51. Answer: (b) 1404

Calculation:
Let the number be x
According to question,
=> 44% of x – 33% of x = 286
=> 0.44x – 0.33x = 286
=> 0.11x = 286
=> 11x/100 = 286
=> x = (286 × 100)/11
=> x = 2600
Now,
Therefore 54% of x
=> 54% of 2600
=> (54/100) × 2600 = 1404
Therefore The number is 1404.
Shortcut Trick
According to the question,
=> (44 - 33) = 11 unit → 286 then,
=> 1 unit → 286/11 = 26,
Now, 54 unit → 26 × 54 = 1404

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Q52. Answer: (a) 31

Given:

129!

Concept Used:

No. of zeroes = Sum of all quotient

Calculation:

As, 5 × 2 will give a zero and nearest multiple of of 5 below 129 is 125

Number of multiples of 5 in 129! = 125/5

=> 25

Number of multiples of 5^2 ie 25 in 129! = 125/25

=> 5

Number of multiple of 5^3 ie 125 in 129! = 125/125

=> 1

Total zero = 25 + 5 + 1

=> 31

Therefore Total number of zero is 31.

Q53. Answer: (c) 15

Concept used:

If two lines intersect, then the solution of the equations of the two lines is the point of intersection

Calculation:

We have,

=> 3x – 8y = 16 ----(1)

=> 2x + 4y = 6

multiply both side by 2, we get

=> 4x + 8y = 12 ----(2)

Adding equation (1) and (2) we get,

=> 7x = 28

=> x = 4

Now,

=> 3(4) – 8y = 16

=> 12 – 16 = 8y

=> y = -1/2

=> (a, b) = (4. -1/2)

Now,

Therefore $a^2 – 4b^2 = (4)^2 – 4(-1/2)^2 = 16 – 1 = 15$

Q54. Answer: (a) $-3a^3$

Given:

$a^3 + a – 1 = 0$

=> $a^3 = 1 – a$

Calculation:

Now, a^5 + a^4 + a – 2

=> $a^3 \times a^2 + a^3 \times a + a – 2$

=> $(1 – a)a^2 + (1 – a)a + a – 2$

=> $a^2 – a^3 + a – a^2 + a – 2$

=> $-a^3 – 2(1 – a)$

=> $-a^3 – 2a^3$

=> $-3a^3$

Therefore The correct answer is -3a3

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Q55. Answer: (c) Sum of the two angles of a triangle is equal to the third angle

Concept used:

• Sum of the three angles of a triangle is 180°

Calculation:

As, one angle of right angle triangle is 90° so by angle sum property sum of other two angles will be 90°

Therefore Sum of two angles of a triangle is equal to the third angle

Q56. Answer: (b) 5, 6, 8

Concept used:

If a, b, and c be the three sides of a triangle and $a^2 + b^2 < c^2$ then the triangle is an obtuse-angled triangle

Calculation:

Considering sides of length 5,6 and 8 will give us,

=> $5^2 + 6^2 < 8^2$

=> 61 < 64

Therefore This is a property of the sides of an obtuse-angled triangle

Q57. Answer: (a) 16100

Calculation:

Let total number of students be x

=> Student who pass the exam = 87% of x = 0.87x

=> Students who failed the exam = x – 0.87x

=> 2093 = 0.13x

Therefore x = 16100

Shortcut Trick

According to the question, 87% students passed

So, (100 - 87) = 13 unit → 2093

Then, 100 unit → 2093/13 × 100 = 16100

Q58. Answer: (d) 30

Calculation:

Let present age of sheetal and Divya be 6x and 5x respectively

After 8 years,

=> Sheetal's age = 6x + 8

=> Divya's age = 5x + 8

According to question,

=> (6x + 8) / (5x + 8) = 22/19

=> 114x + 152 = 110x + 176

=> 4x = 24

=> x = 6

Therefore present age of Divya = 5x = 5 × 6 = 30

Shortcut Trick

The ratio of present ages of Sheetal and Divya is 6 : 5

After 8 years the ratio becomes 22 : 19

Here, both ages were increased 8 years so we have to make difference equal

	Sheetal	Divya
Present age × 3	18	15
Age after 8 years	22	19
Difference	4	4

Here, 4 unit → 8 years,

Then, 15 unit → 8/4 → 15 = 30 year

Q59. Answer: (d) 98

Calculation:

Let initial quantity of paint and oil be 7x and 5x

=> Total quantity = 7x + 5x = 12x

Now 24 litres is removed and 24 litres oil is added

=> Quantity of paint left = 7x – {24 × (7x/12x)} = 7x – 14

=> Quantity of oil = 5x – {24 × (5x/12x)} + 24 = 5x – 10 + 24 = 5x + 14

According to question,

=> (7x – 14) / (5x + 14) = 1/1

=> 7x – 14 = 5x + 14

=> 2x = 28

=> x = 14

Therefore initial quantity of paint = 7x = 7 × 14 = 98 litres

Q60. Answer: (c) 34, 26, 30

Calculation:

=> Sum of age of Sita and Geeta = average × 2 = 30 × 2

=> S + G = 60 ----(1)

=> Sum of age of Geeta and Rita = average × 2 = 28 × 2

=> G + R = 56 ----(2)

=> Sum of age of Sita and rita = average × 2 = 32 × 2

=> S + R = 64 ----(3)

Now, subtracting (2) from (1) we get

=> S – R = 4 ----(4)

Now, adding (3) and (4) we get,

=> 2S = 68

=> S = 34

Now,

=> R = 64 – S = 64 – 34 = 30

=> G = 56 – R = 56 – 30 = 26

Therefore age of Sita, Gita and Rita is 34, 26 and .30 respectively

Q61. Answer: (a) 12.5

Concept used:

• Simple interest = (principal × time × rate)/100

• Amount = sum + simple interest

Calculation:

Let rate be r%

Simple interest = (800 × 2 × r)/100 = 16r

We know, amount = sum + simple interest

According to the question,

=> 1000 = 800 + 16r

=> 16r = 200

Therefore r = 12.5%

Q62. Answer: (a) 100 : 91

Calculation:

Let Cost price of D be Rs. 100

=> Cost price of E = selling price of D = 100 + 30% of 100 = Rs. 130

=> Cost price of F = selling price of E = 130 – 30% of 130 = Rs. 91

Therefore Required ratio = 100 : 91

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Q63. Answer: (a) 85

Given:

Marked price = Rs. 750

Concept used:

Selling price = marked price – discount% on the marked price

Calculation:

=> 750 – 22% of 750 = Rs. 585

Cost price = Rs. 500

Therefore Profit = Selling price – cost price = 585 – 500 = Rs. 85

Q64. Answer: (a) 1.154

Calculation:

√3 - 10/√3 + √27

=> (3 - 10)/√3 + 3√3

=> (-7 + 9)/√3

=> 2/√3

[multiplying numerator and denominator by √3, we get]

=> 2√3/3

=> 2 × 1.732/3

=> 1.154

Therefore The correct answer is 1.154

Q65. Answer: (b) 5

Concept used:

• Total work = Efficiency × Time

Calculation:

Efficiency of P = 1/12

Efficiency of Q = 1/15

Efficiency of R = 1/20

Efficiency of P, Q and R together = (1/12) + (1/15) + (1/20) = (5 + 4 + 3)/60 = 12/60 = 1/5

Therefore They will take 5 days to complete the work

Q66. Answer: (c) 11:30

Concept used:

• Time taken = distance/speed

Calculation:

Total distance travelled by first train in 1 and half hour (from 7:00 am to 8:30 am) = speed × time = 40 × {1 + (1/2)} = 40 × (3/2) = 60 km

Total distance to be covered now = 270 – 60 = 210 km

Relative speed = 40 + 30 = 70 km/hr

Time taken = distance/speed = 210/70 = 3 hr

Therefore They will meet at 11:30 am ie. (8:30 am + 3 hrs)

Q67. Answer: (a) A

Therefore According to graph, Country A has 50 soldiers which the least

Q68. Answer: (d) 4 : 15

=> Number of soldiers of country B = 200

=> Number of soldiers of country D = 750

Therefore Required ratio = 200 : 750 = 4 : 15

Q69. Answer: (d) 200%

=> Number of soldiers of country F = 150

=> Number of soldiers of country A = 50

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Therefore Required % = {(150 – 50)/50} × 100 = 200%

Q70. Answer: (c) 15

=> Number of soldiers = 750

Therefore Total expenditure = 20000 × 750 = 15000000 $ = 15 million $

Q71. Answer: (a) 17

Concept used:

• Perimeter = 2(length + breadth)

• Diagonal = √(length2 + breadth2)

Calculation:

According to the question,

=> 46 = 2(length + 8)

=> Length = 23 – 8 = 15 cm

Also, every angle of rectangle is 90°

Therefore Diagonal = √(length² + breadth²) = √{(15)² + (8)² = √289 = 17 cm

Q72. Answer: (a) 38.5

Concept used:

• Radius = diameter/2

• Area = π × radius2

Calculation:

Radius = diameter/2 = 7/2 cm

Area = (22/7) × (7/2)² = 38.5 cm²

Therefore The correct answer is 38.5 cm2

Q73. Answer: (c) 2464

Concept used:

• Radius = diameter/2

• Surface area of a sphere = 4 × π × radius2

Calculation:

According to the question,

Radius = 28/2 = 14 cm

Therefore Surface area = 4 × (22/7) × 14² = 2464 cm²

Q74. Answer: (d) 2 + √3

Calculation:

2 + tan60° = 2 + √3

Additional Information

Important trigonometric values

Q75. Answer: (c) 13/5

Given:

ΔXYZ is right-angled at Y and sinX = 12/13

Concept used:

• Hypotenuse² = Perpendicular² + Base²

• sin θ = Perpendicular/Hypotenuse = 1/cosec θ

Calculation:

sinX = 12/13

=> YZ/XZ = 12/13

Let YZ = 12k and XZ = 13k

By Pythagoras theorem,

=> XY = √(XZ² – YZ²) = √{(13k)² – (12k)²} = √(25k²) = 5k

Now,

Therefore cosec Z = XZ/XY = 13k/5k = 13/5

Q76. Answer: (b) SWIFT

SWIFT:- Society for Worldwide Interbank Financial Telecommunication.

It provides a network which enables financial institutions in the world to send or receive information about financial transaction in a secure, standardized and reliable environment.

Majority of international bank messages use the SWIFT network.

Q77. Answer: (a) Handicrafts

• 'Marketing Support and Services Scheme' (in the Eleventh Plan) supports artisans related to Handicrafts.

• This scheme was implemented in the 11^(th) five-year plan with the aim to provide direct marketing outlets to the craft persons for participation in various marketing events/melas for augmenting their sales.

• The scheme has three broad components i.e. Domestic Marketing, International Marketing and Publicity.

Q78. Answer: (a) Tethys

Himalaya has emerged from Tethys.

The Tethys Ocean was an ocean during Mesozoic Era.

It was located between continents of Gondwana and Laurasia, before the opening of Indian and Atlantic oceans during Cretaceous period.

Q79. Answer: (b) Brahmaputra, Indus, Sutlej

The correct answer is Brahmaputra, Indus, Sutlej.

Key Points Trans-Himalayan Rivers:

• The Trans-Himalayan Rivers originate beyond the Great Himalayas.

• These are the Indus(Sindhu), the Satluj and the Brahmaputra rivers.

• The Trans Himalayas Mountain Region, also known as the Tibet Himalayan Region, is located to the north of the Great Himalayas.

• Himalayan rivers are those which originate in the Himalayas and flow through the Northern Plains.

• The Ganga, the Yamuna and their tributaries are part of the Himalayan Rivers.

Additional Information

Bramhaputra River:

• The Brahmaputra (meaning the son of Brahma) is 2,900 km in length.

• Source: Chemayungdung glacier (Kailas Range).

• Its source is very close to the sources of the Indus and Satluj.

• It enters India through Arunachal Pradesh and continues its journey through the Assam Valley and Bangladesh, where it is known as Jamuna.

• Finally, it flows into the Bay of Bengal.

• Tributaries:

• Dibang, Lohit, Siang, Burhi Dihing, Tista, and Dhansari.

Sutlej River:

• It is the longest of the five tributaries of the Indus River.

• The Satluj rises from the Manasarovar-Rakas Lakes in western Tibet at a height of 4,570 m within 80 km of the source of the Indus.

• It takes a north-westerly course up to the Shipki La on the Tibet-Himachal Pradesh boundary.

• After entering the plain at Rupnagar (Ropar), it turns westwards and is joined by the Beas at Harike.

• During its onward journey, it receives the collective drainage of the Ravi, Chenab and Jhelum rivers.

• It joins the Indus a few kilometres above Mithankot.

Indus/Sindhu River:

• It flows in the northwest direction from its source (Glaciers of Kailas Range – Kailash range in Tibet near Lake Manasarovar) till the Nanga Parbhat Range.

• Its length is about 2,900 km.

• After entering J&K it flows between the Ladakh and the Zaskar Ranges.

• It flows through the regions of Ladakh, Baltistan and Gilgit.

• The river empties into the Arabian Sea south of Karachi after forming a huge delta.

Q80. Answer: (b) Lumbini

The correct answer is Lumbini.

Key Points

• Gautam Buddha:

• He was born as Siddhartha Gautama in circa 563 BCE, in a royal family in Lumbini which is situated near the Indo-Nepal border.

• His family belonged to the Sakya clan which ruled from Kapilvastu, Lumbini.

• At the age of 29, Gautama left home and rejected his life of riches and embraced a lifestyle of asceticism or extreme self-discipline.

• After 49 consecutive days of meditation, Gautam attained Bodhi (enlightenment) under a pipal tree at Bodhgaya, Bihar.

• Buddha gave his first sermon in the village of Sarnath, near Varanasi in Uttar Pradesh. This event is known as Dharma Chakra Pravartana (turning of the wheel of law).

• He died at the age of 80 in 483 BCE at Kushinagar, Uttar Pradesh. The event is known as Mahaparinibban or Mahaparinirvana.

• He is believed to be the eighth of the ten incarnations of Lord Vishnu (Dashavatar).

Additional Information

BUDDHIST COUNCIL	YEAR	VENUE	CHAIRMAN	PATRON
1st Buddhist Council	483 BC	Rajgriha	Mahakassapa	Ajatashatru
2nd Buddhist Council	383 BC	Vaishali	Sabbakami	Kalashoka
3rd Buddhist Council	250BC	Patliputra	Mogaliputta Tissa	Ashoka
4th Buddhist Council	72 AD	Kundalvan	Vasumitra/Ashavaghosh	Kanishka

Q81. Answer: (b) Rajaraja Chola

• The first important ruler to emerge from the Chola Dynasty was Rajaraja Chola.

• His reign was between 985-1014 CE.

• Raja Rajachola also launched many navel campaigns that resulted in the capture of Malabar coast as well as Maldives and Sri Lanka.

Q82. Answer: (b) Violin

The correct answer is Violin.

Key Points

• Vishnu Govind Jog, better known as V. G. Jog, was an Indian violinist.

• He was the foremost exponent of the violin in the Hindustani music tradition in the 20th century and is credited for introducing this instrument into Hindustani music.

Additional Information

• Indian Music Instruments and Players:

• Violin : V.G. Jog, Lalgudi Jayaraman, T.N. Krishnan, Yehudi Mennuhin, M. S. Gopalakrishnan, Kunnukkudi Vaidyanathan, Kalyana Krishna Bhagavatar, L. Subramaniam, Chandayya, Kantha Devi, Gajannan Rao Joshi (Hindustani), Zubin Mehta (Western).

• Mridangam: Palakkad Mani Iyer, T.R. Murthy, Guruvayoor Doraiswami, Karaikudi R.Mani, Umayalpuram Shivaraman, Velloor A. Ramabhadran, Mavelikara Krishnan Kutty Nair.

• Sitar: Ravi Shankar, Mushtaq Ali Khan, Vilayat Khan, Uma Shankar Mishra, Nikhil Banerjee, Raiz Khan, Harashankar Bhattacharya, Budhaditya Mukherjee, Abdul Halim Jaffer Khan

• Sarod : Amjad Ali Khan, Ali Akbar Khan, Rajiv Taranath

• Santoor: Shiv Kumar Sharma, Tarun Bhattacharya, Bhajan Sopperi.

• Flute: N.Ramani, Hariprasad Chaurasia, T.R. Mahalingam, Pannalal Ghosh, T. S. Shankaran, Sikkil Sisters

• Mandolin: U. Srinivas, S. Balamurali Krishna.

• Piano : Surojeet Chatterji, Kaikhosh Shapurji, Sorabjee.

• Shehnai: Bismillah Khan, Bagheshwari Gamar, Bade Gulam Ali.

• Tabla: Alla Rakha, Zakir Hussian, Shankar Ghosh, Abad Mistry, Rimba Shiva, Santha Prasad, Sheikh Dawood, Sharafat Ahmed Khan, Kishan Maharaj, Ahmed, Tirkuva, Pt.

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Q83. Answer: (c) Samsung

Samsung India has entered into a partnership with UNESCO MGIEP (Mahatma Gandhi Institute of Education for Peace and Sustainable Development) to launch 360 degreevideos and Virtual Reality (VR) content of two magnificent Indian heritage sites, the Sun Temple in Konark, Odisha and Taj Mahal in Agra, Uttar Pradesh.

Q84. Answer: (c) Physical Sciences

Yamuna Krishnan has been awarded with 9th Infosys award in Physical Sciences.

Krishnan's team has created DNA nanosensors and nano-scale drug-delivery systems.

The Infosys Prize is awarded annually to researchers and scientists across six categories:

Engineering and Computer Sciences
Humanities
Life Sciences
Mathematical Sciences
Physical Sciences
Social Sciences

As part of the prize, each awardee will receive a citation, a gold medal, and a monetary award of Rupees 65 lakh.

Q85. Answer: (d) Nepali

The correct answer is Nepali.

Key Points

• The Himalayan region of South Asia is home to the Indo-Aryan language of Nepal.

• It is the most frequently spoken and official language in Nepal, where it also functions as a lingua franca.

• Both the Gorkhaland Territorial Administration of West Bengal and the Indian state of Sikkim recognize Nepali as an official language.

• 78% of people in Nepal speak Nepali as a first or second language, and it is an official language.

• All 121 of the additional languages are acknowledged national tongues.

• The second most often spoken language is Maithili.

Additional Information

• Bhojpuri:

• The Terai region of Nepal and the Bhojpur-Purvanchal region of India are home to the Indo-Aryan language known as Bhojpuri.

• Tharu:

• Any Indo-Aryan language spoken by the Tharu people in the Terai region of Nepal and the nearby states of Uttarakhand, Uttar Pradesh, and Bihar in India are referred to as a Tharu language.

• Hindi:

• An Indo-Aryan tongue, Hindi is mostly spoken in the Hindi Belt.

Q86. Answer: (c) Different number of neutrons

The correct answer is Different number of neutrons.

Key Points

• Isotopes

• The nuclei have been classified based on the number of protons (atomic number) or the total number of nucleons (mass number) as follows -

• Isotopes:

• The atoms of an element having the same atomic number but a different mass number are called isotopes. All isotopes have the same chemical properties.

• Isobars:

• The nuclei which have the same mass number (A) but a different atomic number (Z) are called isobars.

• Isotones:

• The nuclei having an equal number of neutrons are called isotones. For them both the atomic number (Z) and mass number (A) are different, but the value of (A – Z) is the same.

EXPLANATION:

• From above it is clear that the atoms of an element having the same atomic number but a different mass number are called

isotopes. Therefore option 3 is correct.

• All isotopes have the same chemical properties.

Q87. Answer: (b) Both I and III

The correct answer is Both I and III.

Key Points

• micelle

• A micelle is a spherical aggregation of soap molecules in water in which hydrocarbon ends are directed towards the centre and ionic ends are directed outwards.

• Head, the hydrophilic part:

• Head of the micelle is formed of ionic part

• This part is hydrophilic and is attracted to water

• Tail, the hydrophobic part:

• The tail of the micelle is formed by a long chain of hydrocarbon

• This part is hydrophobic and is attracted to dirt/oil/grease

Q88. Answer: (c) Part IV

Article	Content	Part
Article 36 to Article 51	Directive Principles of State Policy	Part IV
Article 5 to 11	Citizenship	Part II
Article 12 to 35	Fundamental Rights	Part III
Article 52 to 151	The Union	Part V

Q89. Answer: (c) Right to Equality

The correct answer is Right to Equality.

Key Points

• The Constitution provided for six Fundamental Rights,

• Right to equality comprises Articles 14-18 they are,

• Equality before the law and equal protection of laws (Article 14).

• Article 15 of the constitution deals with the Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth which is under the right to equality

• Article 16 is about Equality of opportunity in matters of public employment.

• Article 17 deals with the Abolition of untouchability and the prohibition of its practice.

• Article 18 says, Abolition of titles except military and academic.

Additional Information

• The Fundamental Rights are enshrined in Part III of the Constitution from Articles 12 to 35.

• Originally there are seven fundamental rights are in the constitution.

• However, the right to property i.e. Article 31 was deleted from the list of Fundamental Rights by the 44th Amendment Act, of 1978.

Q90. Answer: (a) Simple squamous epithelium

The correct answer is Simple squamous epithelium.

Key Points

• Simple squamous epithelium:

• It is a single layer of flat-scale-shaped cells.

• This tissue makes up the inner lining of the mouth and blood vessels.

• It also makes the mesothelial lining of the body cavities.

• It allows the transportation of substances through a selective permeable surface in the lining of food vessels or lung alveoli.

Additional Information

• Ciliated columnar epithelium tissues are found in the fallopian tube and parts of the respiratory system.

• Stratified squamous epithelium tissues are found in the organ system where the body comes into close contact with the outside environment

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• Columnar epithelium tissues are found in the stomach and intestines.

Q91. Answer: (b) Monera

Correct Answer is Monera.

MONERA:

Monera includes bacteria, mycoplasmas, cyanobacteria, blue green algae, actinomycetes.

PLANTAE:

Plantae kingdom includes all types of eukaryotic, multicellular, photosynthetic plants.

ANIMALIA:

Animalia kingdom includes vertebrates, insects, raptiles, amphibians, etc

PROTISTA:

Protista are eukaryotic organisms that cannot be classified as a plant, animal or fungus. Kelp or seaweed is an example of Protista.

Q92. Answer: (c) Manoj Sinha

Manoj Sinha launched the 'DeenDayal SPARSH Yojana' for school children.

Under the scheme of SPARSH (Scholarship for Promotion of Aptitude & Research in Stamps as a Hobby), it is proposed to award annual scholarships to children of Standard VI to IX having good academic record and alsopursuing Philately as a hobby through a competitive selection process in all postal circles.

Q93. Answer: (c) Kepler 80g, Kepler 90i

Google and NASA have joined hands to identify Kepler 80g, Kepler 90i, two new planets around Kepler 90.

The Kepler-90 planets have a similar configuration to our solar system with small planets found orbiting close to their star, and the larger planets found farther away.

Q94. Answer: (a) Rs. 41 lakh crore

Approximate Balance sheet size of SBI following the merger was rupee 41 Lakh crores.

With this merger SBI became 45^(th) largest bank in the world with this wealth.

Q95. Answer: (c) 62^(nd)

India was ranked at 62^(nd) place among emerging economies on Inclusive Development Index (IDI-2018) released by World Economic Forum (WEF).

The Inclusive Development Index (IDI) is an annual assessment of 103 countries' economic performance that measures how countries perform on eleven dimensions of economic progress in addition to GDP.

Q96. Answer: (d) 10

The correct answer is 10

CALCULATION:

R - Resistance

p - Resistivity

l - length

A = area

We have formula of Resistance:

$R = (\rho\ l)/A$

$A = 1cm^2 = 0.0001m^2$

$R = 100 \times 10/.0001 = 100 \times 10 \times 10000 = 10^7$

1 mega Ω = 10^6 Ω

R = 10* 10^6Ω or 10 mega Ω

Therefore 10 mega Ω is corrct Answer.

Q97. Answer: (d) Upthrust

The correct Answer is Upthrust.

Upthrust:

• Anything kept in a fluid experiences an upward force called upthrust.

Moment:

• Moment of force (often just moment) is a measure of its tendency to cause a body to rotate about a specific point or axis.

Pressure:

• Pressureis a continuous physical force exerted on or against an object by something in contact with it.

Torque:

• Torque is a measure of the force that can cause an object to rotate about an axis.

Q98. Answer: (b) oxygen

The correct answer is oxygen.

Key Points

• Air is a mixture of gases that surrounds the earth.

• It consists of different gases.

EXPLANATION:

• About 21% of atmospheric air contains Oxygen.

• It is the second abundant gas in the atmosphere.

• Nitrogen is the most abundant gas.

• Carbon dioxide, argon, methane are found in minute quantities.

Additional Information

• Permanent Gases of the Atmosphere

Nitrogen (N2)	**78.084**
Oxygen (O2)	20.946
Argon (Ar)	0.934
Carbon dioxide (CO2)	0.036
Neon (Ne)	0.00182
Helium (He)	0.000524
Krypton (Kr)	0.000114
Hydrogen (H2)	0.00005

Q99. Answer: (c) Both B and C

Roger Federer won the Tennis 2017 Wimbledon Championships Men's Singles.

Aryan Tari won the 2017 World Junior Chess Championship.

Viktor Axelsen won the Men's Singles Badminton 2017 BWF World Championships.

Q100. Answer: (b) View Buttons

The correct answer is View Buttons.

Key Points

• In Microsoft Word, View Buttons provide options to switch between Normal, Web Layout, Print Layout, Outline and Reading Views.

Additional Information

• The standard toolBar Contains buttons that are shortcuts to some commonly used menu items.

• The Standard and Formatting toolbars are the two most commonly used toolbars in Office 2003 programs. When you open Word, Excel, or PowerPoint, the Standard and Formatting toolbars are turned on by default.

• The Standard toolbar is located just below the menu bar. It contains buttons representing commands such as New, Open, Save, and Print.

• The Formatting toolbar is located just below the menu bar.

• It contains buttons representing commands such as New, Open, Save, and Print. One can customize the buttons that appear on the formatting toolbar using the customize toolbar menu item.

• Tab stop:

• In Microsoft Word, tab stop is a position we set for placing and aligning text on a page.

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