SSC CHSL Tier-1 2021: Official Paper (Held On : 2 June 2022 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2021 • 100 questions • 60 minutes • Answer key and solutions

Take this paper as a timed mock test

Practise under exam conditions, then review your answers after you submit.

yourmocktest.com/pyq/ssc-chsl/ssc-chsl-tier-1-2021-official-paper-held-on-2-june-2022-shift-1-…

Scan the QR code or click the link to open it.

YourMockTest.com — Free Study Material

ENGLISH LANGUAGE

Q1. Select the most appropriate meaning of the given idiom.

White elephant

(a) Useful and expensive possession
(b) Memorable possession
(c) Costly but useless possession
(d) Motivational possession

Q2. Select the option that can be used as a one-word substitute for the given group of words.

One thing that can be divided

(a) Remainder
(b) Quotient
(c) Dividend
(d) Divisible

Q3. Select the most appropriate synonym of the given word.

Banter

(a) Repartee
(b) Rebuke
(c) Reliance
(d) Commendation

Q4. Parts of the given sentence have been underlined and given as options. One of them contains an error. Select the option that correctly rectifies the error.

It is possible to prevent oneself with respiratory diseases by maintaining a disciplined lifestyle.

(a) of prevent oneself
(b) to a disciplined lifestyle
(c) on maintaining
(d) from respiratory diseases

Q5. Select the most appropriate meaning of the given idiom.

To put someone’s back up

(a) To flatter someone
(b) To irritate someone
(c) To help someone
(d) To deceive someone

Q6. Select the INCORRECTLY spelt word.

(a) Movement
(b) Career
(c) Carrier
(d) Freadom

Q7. Select the most appropriate spelling that can substitute the underlined word in the given sentence.

He had to prepare for his competation.

(a) competetion
(b) compitition
(c) competion
(d) competition

Q8. Select the option that expresses the given sentence in active voice.

The door was opened by the children for their father.

(a) The children was opened the door for their father.
(b) The children are opens the door for their father.
(c) The children opened the door for their father.
(d) The children opens the door for their father.

Q9. Select the most appropriate option to fill in the blank.

Though he is stout, he runs _____.

(a) faster
(b) fastest
(c) fast
(d) fastly

Q10. Select the most appropriate meaning of the highlighted idiom

The actress' daughter is just a chip off the old block.

(a) console the dreary
(b) Similar to one's parents in behaviour
(c) get into the enemy's territory
(d) chip off the edges

Q11. Select the INCORRECTLY spelt word.

(a) Summary
(b) Emigrate
(c) Rivelry
(d) Grandeur

Q12. Select the most appropriate synonym of the given word.

Austere

(a) Promising
(b) Stern
(c) Brisk
(d) Mitigating

Q13. Parts of the given sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The Minister announced that the bridge would constructed within a week.

(a) No error
(b) that the bridge would constructed
(c) The Minister announced
(d) within a week

YourMockTest.com — Free Study Material

Q14. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. Two astronomers – Johannes Kepler from Germany and Galileo from Italy – supported the Copernican theory after nearly a century passed by.

B. Copernicus' view was that the sun was stationary and the earth and the planets moved in orbits around the sun.

C. Nicholas Copernicus, a Polish priest, proposed a model in 1514.

D. There are many popular theories about the solar system. Ancient People believed that the sun moved around the earth and the earth was static.

(a) BCAD
(b) ABCD
(c) DCBA
(d) DACB

Q15. Select the most appropriate option that can substitute the underlined segment in the given sentence.

They had eaten an apple every day for breakfast.

(a) eaten
(b) eat
(c) has eaten
(d) eating

Q16. Select the most appropriate ANTONYM of the given word.

Famous

(a) Quiet
(b) Concert
(c) Obscure
(d) Affluent

Q17. Select the most appropriate option to fill in the blank.

Other countries of comparable size and exposure to Information and Communication Technologies (ICT) have adopted a decentralised organizational structure, liberal policies, and a _____ dispute resolution mechanism deployed state-of-the-art infrastructure and used the private-public partnership to market Domain Name Registration Services (DNS), resulting in phenomenal growth of their country code domain name.

(a) short
(b) narrow
(c) restricted
(d) comprehensive

Q18. Select the sentence which has no spelling error.

(a) Aries is the first sign of the zodiac.
(b) Many cities are named after zodaic signs.
(c) Water bearer is the symbol for zodiak Aquarius.
(d) The zodyac signs are split in twelve months.

Q19. Select the option that can be used as a one-word substitute for the given group of words.

Unselfish interest in the welfare of others

(a) Celibacy
(b) Misanthropy
(c) Egoism
(d) Altruism

Q20. Select the option that expresses the given sentence in passive voice.

I am going to ask all employees about the incident that took place in the canteen yesterday.

(a) All the employees are gone to be asked about the incident that took place in the canteen yesterday.
(b) All the employees are going to be asked about the incident that took place in the canteen yesterday.

YourMockTest.com — Free Study Material

(c) All the employees are asked by me about the incident that took place in the canteen yesterday.

(d) All the employees will go to be questioned by me about the incident that took place in the canteen yesterday.

Directions

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Salander sat for a while (1) ____ the telephone after Armansky hung up. She went to her work corner in the living room (2) __ looked at the notes she had pinned up on the wall and the papers she had (3) __ on the desk. What she had managed to collect was mostly press cuttings and articles (4) __ from the Internet. She took the papers and dropped (5) ____ in a desk drawer.

Q21. Select the most appropriate option to fill in blank number 1.

(a) to be holding
(b) holds
(c) holding
(d) hold

Q22. Select the most appropriate option to fill in blank number 2.

(a) and
(b) so
(c) but
(d) although

Q23. Select the most appropriate option to fill in blank number 3.

(a) tacked
(b) slacked
(c) mounded
(d) stacked

Q24. Select the most appropriate option to fill in blank number 4.

(a) cropped
(b) uploaded
(c) cut
(d) downloaded

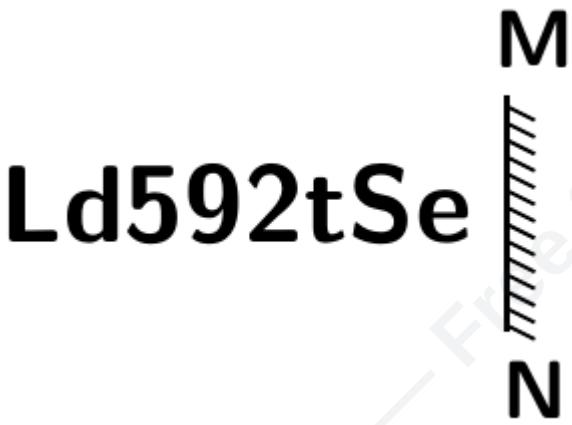
Q25. Select the most appropriate option to fill in blank number 5.

(a) it
(b) them
(c) they
(d) that

GENERAL INTELLIGENCE

Q26. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.

YourMockTest.com — Free Study Material



(a)



(b)



(c)



(d)



Q27. In a certain code language, ‘CONCEPT’ is written as ‘3o14c5p20’ and ‘PROBLEM’ is written as ‘16r15b12e13’. How will ‘SOLVE’ be written in that language?

(a) Po12v5
(b) 19o12v5
(c) 18o12v5
(d) 19o1345

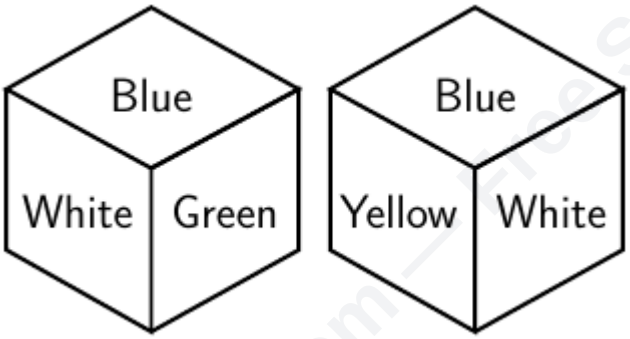
Q28. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Necessary
2. Networks
3. Negotiate
4. Needlework
5. Neigh

(a) 4, 1, 3, 5, 2
(b) 1, 4, 3, 5, 2

(c) 3, 4, 1, 5, 2
(d) 3, 1, 5, 4, 2

Q29. Two different positions of the same dice are shown, the six faces of which are coloured Red, Green, Blue, Yellow, Black, White. Select the colour that will be on the face opposite to the one coloured Yellow.



(a) Green
(b) Black
(c) Red
(d) White

Q30. Which of the following numbers will replace the question mark (?) in the given series?

7, 7, 9, 27, 31, 155, ?

(a) 166
(b) 183
(c) 161
(d) 181

Q31. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

9 : 135 : : 6 : 54 : : 7 : ?

(a) 84
(b) 74
(c) 77
(d) 85

Q32. Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.

H _ H _ _ S r _ a H _ _ S r H _ _ S a S r

(a) a S a H S a a H
(b) a S a S S a a H
(c) S S a H S a a H
(d) a S a a a a a H

Q33. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

PEARL : LRAEP : : ULTRA : ARTLU : : VIRAL : ?

(a) LIRAV
(b) AIRLV
(c) LARIV
(d) ALRIV

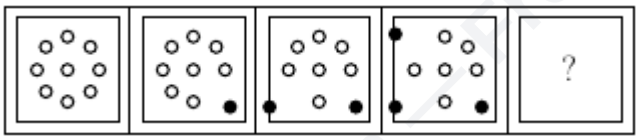
YourMockTest.com — Free Study Material

Q34. Select the option that is related to the fifth term in the same way as the second term is related to the first term and fourth term related to third term.

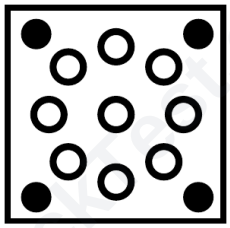
12 : 208 : : 9 : 108 : : 15 : ?

(a) 350
(b) 360
(c) 325
(d) 365

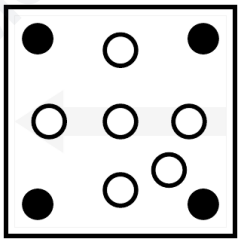
Q35. Select the figure that will replace the question mark (?) in the following figure series.



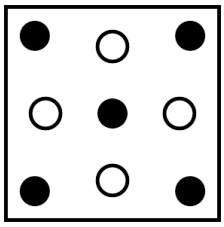
(a)



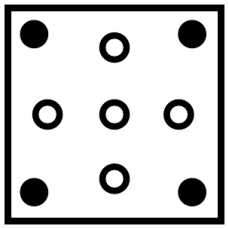
(b)



(c)



(d)



Q36. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

207 : 30 : : 108 : 19 : : 63 : ?

(a) 18
(b) 20
(c) 14
(d) 11

YourMockTest.com Free Study Material

Q37. The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs, except one. Find that odd number pair.

(a) 25 : 125
(b) 49 : 343
(c) 81 : 730
(d) 36 : 216

Q38. In a certain code language, ‘CURD’ is written as ‘342184’ and ‘BREAD’ is written as ‘2181024’. How will ‘BUTTER’ be written in that language?

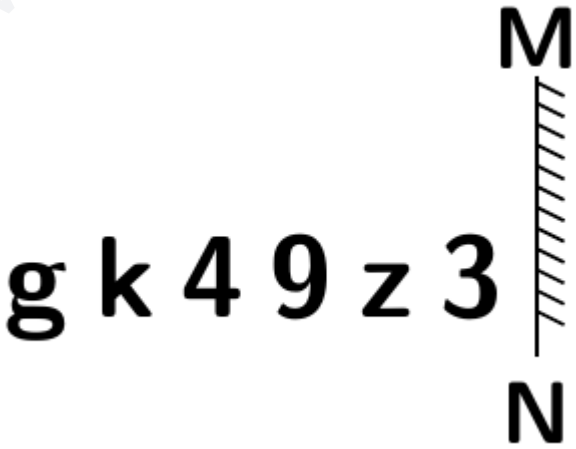
(a) 442201018
(b) 421201018
(c) 24220201018
(d) 2212020518

Q39. Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term

16 : 36 : : ? : 50 : : 9 : 22

(a) 31
(b) 23
(c) 34
(d) 22

Q40. Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



(a)



(b)



YourMockTest.com — Free Study Material

(c)



(d)



Q41. Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.

21 : 54 : : 24 : ? : : 29 : 78

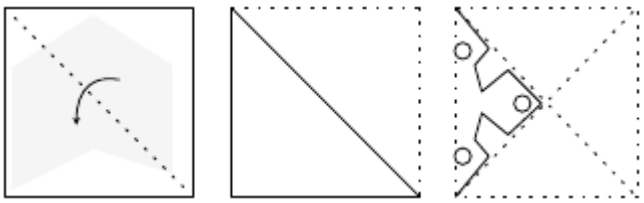
(a) 56
(b) 63
(c) 30
(d) 49

Q42. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

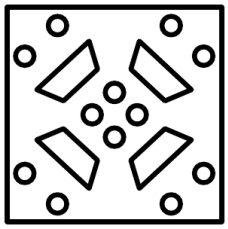
1. Facsimile
2. Frightful
3. Favourable
4. Fructification
5. Fanatical

(a) 1, 4, 2, 5, 3
(b) 1, 3, 4, 2, 5
(c) 1, 5, 3, 2, 4
(d) 1, 3, 4, 5, 2

Q43. A paper is folded and cut as shown. How will it appear when unfolded?

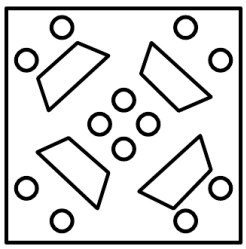


(a)

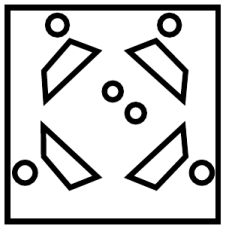


YourMockTest.com — Free Study Material

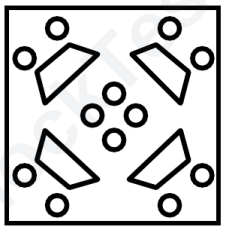
(b)



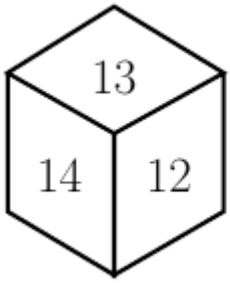
(c)

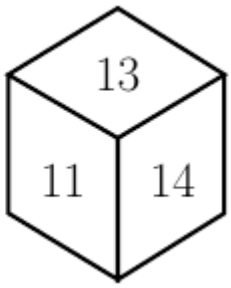


(d)



Q44. Two different positions of the same dice are shown, the six faces of which are numbered from 11 to 16. Select the number that will be on the face opposite to the one showing '12'.



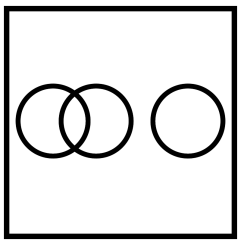


(a) 16
(b) 15
(c) 13
(d) 11

Q45. Select the Venn diagram that best represents the relationship between the following classes.

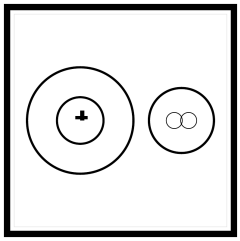
Brothers, Fathers, Mothers

(a)

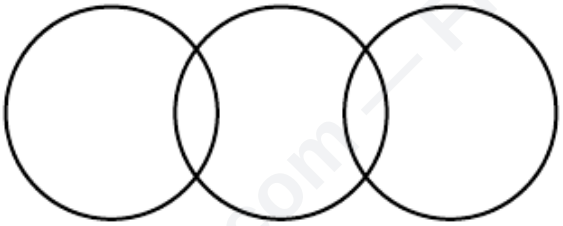


YourMockTest.com — Free Study Material

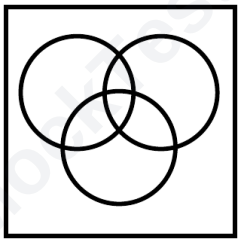
(b)



(c)



(d)



Q46. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

50 * 24 * 2 * 5 * 3

(a) +, =, ×, ×
(b) =, +, +, +
(c) -, =, +, ×
(d) =, ×, +, –

Q47. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(37, 28, 333)

(41, 39, 82)

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / deleting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(a) (18, 13, 90)
(b) (17, 14, 67)
(c) (16, 12, 54)
(d) (19, 15, 44)

Q48. The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs, EXCEPT one. Find that odd number pair.

(a) 50 : 150
(b) 30 : 80
(c) 40 : 120
(d) 20 : 60

Q49. In a certain code language, “QUOTE” is written as “RWRXJ”, and “UNION” is written as “VPLSS”. How will “YOUNG” be written in that language?

(a) ZQXRL
(b) ZQWRL

(c) ZPXRL
(d) ZQXQL

Q50. Which letter cluster will replace the question mark (?) to complete the given series?
UQMI, VOPE, WMSA, ?, YIYS
(a) XKWV
(b) KXWV
(c) XKVW
(d) XVWK

QUANTITATIVE APTITUDE

Q51. In a circular race of 2500 m, a man and a woman start from a point towards opposite directions with speeds of 37 km/h and 35 km/h, respectively. After how much time from the start of the race will they meet for the first time?
(a) 2 min 40 sec
(b) 2 min 30 sec
(c) 2 min 5 sec
(d) 2 min 20 sec

Q52. What will be the area of a triangle whose sides are 13 cm, 5 cm and 12 cm?
(a) 50 cm^2
(b) 40 cm^2
(c) 35 cm^2
(d) 30 cm^2

Q53. The table below shows the number of cakes sold by six different bakeries in a town on five different days of particular week.

Days Bakery	Monday	Tuesday	Thursday	Saturday	Sunday
A	222	255	215	250	266
B	205	275	314	295	260
C	245	266	305	195	235
D	221	230	185	300	280
E	312	325	298	272	254
F	175	205	255	240	308

If out of the total number of cakes sold by bakery C on Monday, 40% are Vanilla cakes and rest are strawberry cakes, then what is the number of strawberry cakes sold by Bakery C on Monday?
(a) 98
(b) 147
(c) 145
(d) 150

Q54. Find the fourth proportional to 7, 13 and 21.
(a) 14
(b) 26
(c) 39
(d) 21

Q55. The volume of a cube is 5832 cm^3. Find its total surface area.
(a) 1672 cm^2
(b) 1944 cm^2
(c) 1536 cm^2

YourMockTest.com — Free Study Material

(d) 1824 cm^2

Q56. 3 sinA - 4 sin^3 A = ?

(a) cot3A
(b) sin3A
(c) cos3A
(d) tan3A

Q57. Find the ratio in which a grocer should mix two varieties of pulses costing Rs. 75 and Rs. 90 per kg, respectively, so as to get a mixture costing Rs. 80 per kg.

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

Q58. The expenses of a family on wheat, vegetables and oil are in the ratio 12 : 8 : 5. The prices of these items increased by 50%, 25% and 40%, respectively. The total expenses of the family on these items increased by:

(a) 40%
(b) 38%
(c) 44%
(d) 42%

Q59. The table below gives the age-wise distribution of number of people who responded to a survey about their favourite style of dance. As per information given in the table, what approximate percentage of the respondents till the age of 30 years indicated that Dandiya is their favourite style of dance? (Give your answer upto two decimal places)

Age	Less than 20 years	From 21 years to 30 years	More than 30 year
Bharatanatyam	6	4	17
Dandiya	7	8	10
Kuchipudi	9	3	4
Kathakali	2	2	2
Bhangra	8	8	5
Bihu	4	9	2
Total	36	34	40

(a) 23.34%
(b) 29.79%
(c) 11.44%
(d) 21.43%

Q60. A shopkeeper gives a 35% discount on the marked price of a bottle. If the selling price of the bottle is Rs. 1,755, then the marked price of the bottle will be:

(a) Rs. 2800
(b) Rs. 2500
(c) Rs. 2700
(d) Rs. 3500

Q61. The average age of a group is increased by 6 years when a person whose age is 24 years was replaced by a person whose age is 66. Find the number of persons in the group.

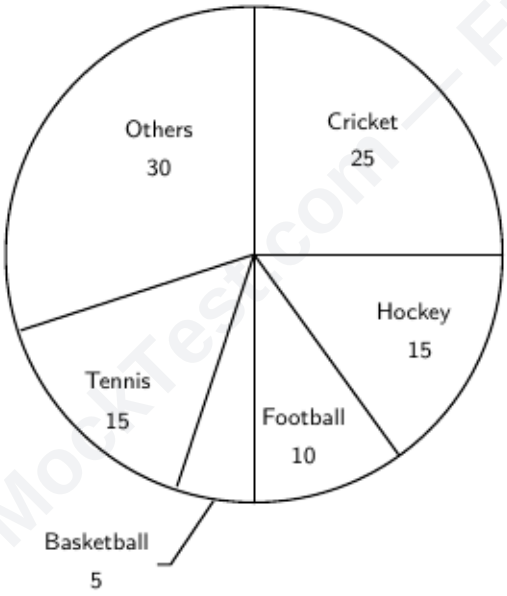
(a) 8
(b) 9
(c) 6
(d) 7

YourMockTest.com — Free Study Material

Q62. A sells an article to B at 10% profit. B sells it to C at 25% profit. If C pays Rs. 6,875 for it, then the price at which A bought it is:

(a) Rs. 4,665
(b) Rs. 4,850
(c) Rs. 5,000
(d) Rs. 5,500

Q63. The pie chart below shows the percentage shares of the total expenditure on sports made by a country on various sports during 2019-2020. Study the pie chart and answer the question that follows.



If the total amount spent on sports during 2019-2020 was Rs. 260 crores, then how much was spent on hockey?

(a) Rs. 30 crores
(b) Rs. 42 crores
(c) Rs. 34 crores
(d) Rs. 39 crores

Q64. What will be the present value of Rs. 90,774 due 2 years hence, when the interest is compounded at 23% per annum?

(a) Rs. 65,000
(b) Rs. 62,950
(c) Rs. 60,850
(d) Rs. 60,000

Q65. Simplify:

178.01 - [86.23 - {40.22 + (28 - 24)}]

(a) 125
(b) 120
(c) 130
(d) 136

Q66. The value of a residential flat constructed at a cost of Rs. 10,00,000 is depreciating at a rate of 10% per annum. What will be its value 3 years after the construction

(a) Rs. 2,78,000
(b) Rs. 7,29,000
(c) Rs. 7,92,000
(d) Rs. 6,29,000

Q67. Simplify the following expression.

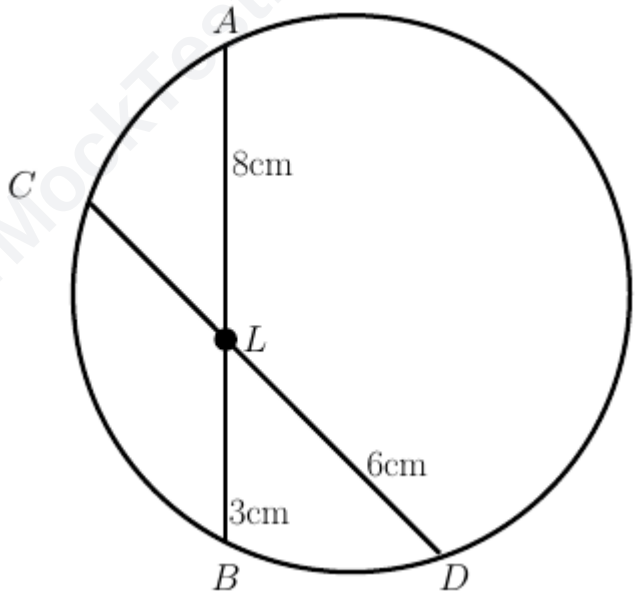
((777 × 777 × 777) + (423 × 423 × 423))/((777 × 777) - (777 × 423) + (423 × 423)) × 1/((77 - 47))

(a) 40
(b) 400
(c) 1200
(d) 30

Q68. Sonam is a cab driver, who plies within a city. The number of kilometres that she drives on a Tuesday was 12.5% less than the number of kilometres that she drives on the day before. On the other hand, the number of kilometres that she drives on Wednesday was 20% more than the number of kilometres that she drives on Tuesday. If Sonam drives a total of 336 km on Wednesday, how many kilometres did she drive on Monday?

(a) 315 km
(b) 318 km
(c) 320 km
(d) 324 km

Q69. In the given figure, chords AB and CD intersect each other at point L. Find CL.



(a) 6 cm
(b) 4 cm
(c) 7 cm
(d) 5 cm

Q70. The largest six-digit number exactly divisible by 81 is:

(a) 999876
(b) 999945
(c) 999989
(d) 999991

Q71. A beaker is filled with a liquid, 3 parts of which are water and 7 parts some medicine. What part of the mixture should be replaced with water so that the resultant mixture has water and medicine in a ratio 1 : 1?

(a) 2/7
(b) 1/7
(c) 2/5
(d) 1/5

Q72. A is 3 times as fast as B and is, therefore, able to complete a work in 32 days lesser than B. A and B, working together, can complete the work in _____.

(a) 10 days
(b) 12 days
(c) 16 days
(d) 14 days

Q73. If 1.5x = 0.04y, then what will be the value of (y - x)/(y + x) ?

(a) 77/73
(b) 77/72
(c) 72/77
(d) 73/77

Q74. Find the volume of a cylinder whose diameter of base is 20 cm and height is two times that of the radius of its base.

(a) 4000 cm^3
(b) 2000π cm^3
(c) 6000π cm^3
(d) 3000 cm^3

Q75. Simplify the expression ((82×82) - (18×18))^(0.5)

(a) 100
(b) 20
(c) 40
(d) 80

GENERAL AWARENESS

Q76. Who among the following wrote two books on the history and dance structure of Mohiniyattam?

(a) Kalamandalam Radhika
(b) Kalamandalam Kalyanikutty Amma
(c) Kalamandalam Hymavathi
(d) Thankamani

Q77. In which year will India host the ICC Champions Trophy?

(a) 2022
(b) 2025
(c) 2023
(d) 2029

Q78. Malka Jaan of Agra Gharana was the court musician at the durbar of which of the following Nawabs of Calcutta?

(a) Shuza-ud-Daula
(b) Wajid Ali Shah
(c) Asaf-ud-Daula
(d) Mohammad Ali Shah

Q79. Who among the following Indian singers has written ‘Raag Sarita’?

(a) Pandit Kumar Gandharva
(b) Balasaheb Poonchwale
(c) Chintaman Raghunath Vyas
(d) Vishnu Narayan Bhatkhande

Q80. The first train inaugurated in 1853 was between which two stations?

(a) Delhi and Chandigarh
(b) Mumbai and Thane
(c) Mumbai and Surat

YourMockTest.com — Free Study Material

(d) Bangalore and Mysore

Q81. Ustad Bade Ghulam Ali Khan was renowned a _____.

(a) sarod player
(b) harmonium player
(c) tabla player
(d) classical singer

Q82. The title of the autobiography of actor Dilip Kumar is _____.

(a) The Substance And The Shadow: An Autobiography
(b) Romancing With Life: An Autobiography
(c) Actually ... I Met Them
(d) An Unfinished Story

Q83. Who won the Saraswati Samman for the year 2020?

(a) Padma Sachdev
(b) Sharankumar Limbale
(c) Amitabha Bagchi
(d) Leeladhar Jagudi

Q84. Indian men's hockey team won its first Olympic gold medal in which year?

(a) 1928
(b) 1922
(c) 1956
(d) 1920

Q85. What is the domestic income if national income is Rs. 10,000 crore and net factor income from abroad is Rs. 2,000 crore?

(a) Rs. 5,000 crore
(b) Rs. 12,000 crore
(c) Rs. 10,000 crore
(d) Rs. 8,000 crore

Q86. The bodies of the animals of phylum Platyhelminthes show _____ grade organisation.

(a) tissue-organ
(b) protoplasmic
(c) cellular
(d) cell-tissue

Q87. Who was famous for inventing the power battery, one of the first devices to provide a reliable source of electricity, in 1800?

(a) Alessandro Volta
(b) Michael Faraday
(c) Luigi Galvani
(d) Henri Becquerel

Q88. Whose autobiography is titled 'Ace against Odds'?

(a) Sania Mirza
(b) Mary Kom
(c) Karnam Malleswari
(d) PT Usha

Q89. Which group was given the name 'paraffins' earlier?

(a) Aldehydes
(b) Alkanes
(c) Alcohols

YourMockTest.com — Free Study Material

(d) Acids

Q90. Who among the following was the third Vice-President of India?

(a) BD Jatti
(b) Zakir Hussain
(c) Gopal Swarup Pathak
(d) V V Giri

Q91. Uma Sharma was conferred the Padma Bhushan award for enriching which of the following forms of Classical Dances in India?

(a) Kathak
(b) Bharatanatyam
(c) Manipuri
(d) Odissi

Q92. Mrinalini Sarabhai was awarded the _____ in 1992.

(a) Padma Vibhushan
(b) Padma Shri
(c) Padma Bhushan
(d) Bharat Ratna

Q93. Vilayat Khan is associated with which musical instrument?

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

Q94. Who among the following invented and perfected India's classical dance form Sattras?

(a) Srimanta Sankardev
(b) K Uma Rama Rao
(c) Uday Shankar
(d) Guru Gopinath

Q95. Which sea is the north-western part of the Indian Ocean that covers a total area of approximately 14,91,000 square miles and forms a part of the major sea route between Europe and India?

(a) Arabian Sea
(b) Caspian Sea
(c) Caribbean Sea
(d) Mediterranean Sea

Q96. Who among the following Indians was selected as a member of International Law Commission for a 5 year term starting January 1, 2023 in the month of November 2021?

(a) Vinod Rai
(b) Bimal Jalan
(c) Suresh Prabhu
(d) Bimal Patel

Q97. Find the odd one out with respect to animals' response to abiotic factors.

(a) Suspend
(b) Migrate
(c) Conform
(d) Reproduce

YourMockTest.com — Free Study Material

Q98. Which is the major microtubule-organising centre (MTOC) in eukaryotic cells involved in various cellular processes, including sensory reception, locomotion, and embryogenesis?

(a) Lysosomes
(b) Centrosome
(c) Plastids
(d) Vacuoles

Q99. The 'Nijaat' (riddance) anti-drug campaign launched by a district police of which state has been acknowledged and appreciated by many Bollywood actors in 2021?

(a) West Bengal
(b) Chhattisgarh
(c) Punjab
(d) Maharashtra

Q100. Who is the only Indian female sportsperson to win two consecutive Olympic medals?

(a) Dutee Chand
(b) PV Sindhu
(c) Mary Kom
(d) Mirabai Chanu

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) Costly but useless possession

The correct answer is: Costly but useless possession

Key Points

• The idiom White Elephant means any burdensome, expensive and useless possession that is much more trouble than it is worth.
• Example- That theatre is a real white elephant. It cost millions to build and nobody ever goes there.
• So, it is clear that the most appropriate meaning of the given idiom 'White elephant' is 'Costly but useless possession.'
• Hence, the correct answer is option 3.

Q2. Answer: (d) Divisible

The correct answer is: Divisible.

Key Points

• Divisible means capable of being evenly divided, without remainder.
• Example - The math teacher explained that the number 10 is divisible by 2, but cannot be split by three equally.
• So, it is clear that the 'Divisible' can be used as a one-word substitute for 'One thing that can be divided.'
• Therefore, the correct answer is option 4.

Additional Information

• Remainder means the part that is left after the other parts are gone, used, or taken away.
• Quotient means a result obtained by dividing one quantity by another.
• Dividend means the value that is divided by another value to get the result.

Q3. Answer: (a) Repartee

The correct answer is: Repartee.

Key Points

• Banter means the playful and friendly exchange of teasing remarks.
• Example - There was much good-natured banter.
• Marked option Repartee means conversation or speech characterized by quick, witty comments or replies.
• Example - The repartee between the two actors made the movie really funny.
• It is clear that 'Banter' and 'Repartee' are similar in meaning.
• Therefore the correct answer is option 1.

Additional Information

• Rebuke means an expression of sharp disapproval or criticism.
• Reliance means dependence on or trust in someone or something.
• Commendation means formal or official praise.

Q4. Answer: (d) from respiratory diseases

The correct answer is: from respiratory diseases

Key Points

• Replace the preposition 'with' with 'from' to make the sentence correct.
• 'From' is a preposition, that is used as a function word to indicate physical separation or an act or condition of removal, abstention, exclusion, release, subtraction, or differentiation.
• Example - He is suffering from a headache.
• The main difference between the part 'with' and part 'from' is that the phrase part 'with' is typically used in reference to objects or possessions, whereas the phrase part 'from' is typically used in reference to people.
• Here in the given sentence, 'from' is used to explain the theme of the passage, that is "If an individual person maintains a disciplined lifestyle then it is possible to keep him/her from respiratory diseases"
• Therefore, the correct answer is option 4.

Hence, the corrected sentence is: It is possible to prevent oneself from respiratory diseases by maintaining a disciplined lifestyle.

Q5. Answer: (b) To irritate someone

The correct answer is: To irritate someone.

Key Points

• The idiom 'To put someone’s back up' means to make someone annoyed or angry.
• Example - Just ignore him, he's only trying to put your back up.
• So, it is clear that the most appropriate meaning of the given idiom 'To put someone’s back up' is 'To irritate someone.'
• Hence, the correct answer is option 2.

Q6. Answer: (d) Freadom

The erroneous spelling is: Freadom.

Key Points

• The correct spelling should be 'Freedom'.
• Freedom means the power or right to act, speak, or think as one wants.
• Example- Today we have the freedom to decide our own futures.
• Therefore, the correct answer is option 4 which is incorrectly spelt.

Additional Information

• Movement means the act or process of changing a situation or event.
• Career means an occupation undertaken for a significant period of a person's life and with opportunities for progress.
• Carrier means a person or thing that carries, holds, or conveys something.

YourMockTest.com — Free Study Material

Q7. Answer: (d) competition

The correct answer is: competition.

Key Points

• The correct spelling should be 'competition.'

• Competition means the activity or condition of striving to gain or win something by defeating or establishing superiority over others.

• Example- Prices are lower when there is competition among the stores.

• Therefore, the most appropriate spelling that can substitute the underlined word in the given sentence is 'competition.'

• Hence, the correct answer is option 4.

Q8. Answer: (c) The children opened the door for their father.

The correct answer is: The children opened the door for their father.

Key Points

• The given sentence is in the passive form and in the past simple tense.

• The simple past tense in the passive voice has the following form: Object + was/were V3 + by + subject.

• The simple past tense in the active voice has the following form: Subject + V2 + object.

• Passive: The floor was cleaned by Reema.

• Active: Reema cleaned the floor.

• In the active voice of the simple past tense, we have to change the structure, so the subject in the passive voice becomes the object in the active voice.

• Therefore, the correct answer is option 3.

Correct Active Voice: The children opened the door for their father.

Q9. Answer: (c) fast

The correct answer: fast.

Key Points

• Fast means moving or capable of moving at high speed.

• “Fast” is generally used for actions that are more sustained.

• Here "fast" is an adverb because it modifies the verb 'run'.

• The given sentence is in the simple present form, so 'fast' (V1) should be used.

• Example - The athlete runs really fast.

• Therefore, the correct answer is option 3.

Complete sentence: Though he is stout, he runs fast.

Additional Information

• "Faster" is the comparative degree of "fast". It is used when we compare speed between two persons or objects.

• "Fastest" is the superlative degree of "fast". It is used If we were talking about more than two drives and showing superiority.

• The fact is that there is no such word as “fastly”. “Fast” is already both an adjective and an adverb.

Q10. Answer: (b) Similar to one’s parents in behaviour

The correct answer is: Similar to one’s parents in behaviour.

Key Points

• The idiom 'Chip off the old block' is an expression used for someone whose character or personality resembles that of their parent.

• Example- He is a real chip off the old block. When I looked at his father, I saw that they were similar.

• So, it is clear that the most appropriate meaning of the given idiom 'Chip off the old block' is 'Similar to one’s parents in behaviour.'

• Hence, the correct answer is option 2.

Q11. Answer: (c) Rivelry

The erroneous spelling is: Rivelry.

Key Points

• The correct spelling should be 'Rivalry'.

• Rivalry means competition for the same objective or for superiority in the same field.

• Example- There always has been intense rivalry between the football clubs.

• Therefore, the correct answer is option 3 which is incorrectly spelt.

Additional Information

• Summary means a brief statement or account of the main points of something.

• Emigrate means to leave one's own country in order to settle permanently in another.

• Grandeur means splendour and impressiveness, especially in appearance or style.

Q12. Answer: (b) Stern

The correct answer is: Stern.

Key Points

• Austere means severe or strict in manner or attitude.

• Example - Even though she appeared austere, my teacher was a very kind woman.

• Marked option Stern means serious and unrelenting, especially in the assertion of authority and exercise of discipline.

• Example - 'We will take the necessary steps,' she said sternly.

• It is clear that 'Austere' and 'Stern' are similar in meaning.

• Therefore the correct answer is option 2.

Additional Information

• Promising means showing signs of future success.

• Brisk means quick in manner or movement; energetic.

• Mitigating means making something less severe or less unpleasant.

Q13. Answer: (b) that the bridge would constructed

The erroneous part of the sentence is: that the bridge would constructed.

Key Points

• Add 'be' after 'would' to make the sentence correct.

• 'Would' is an auxiliary modal verb used to express an intention or plan after a verb in the past tense.

• The given sentence is written in passive form. So, the structure 'would be + V3' should be used.

• Modals are helping verbs that express possibility, ability, duty, permission or advisability. Words like can, could, may, might, must and should, will – are all modals.

• To form these past modals, use could, would, or should are followed by a past participle verb.

• Structure: modal or modal phrase + be + the past participle.

• Therefore, the correct answer is option 2.

Hence, the corrected sentence is: The Minister announced that the bridge would be constructed within a week.

Q14. Answer: (c) DCBA

The correct answer is "DCBA".

Key Points

• Let's look at the correct sequence of the passage.

• Statement D is the opening sentence of the passage which explains the theories available and what ancient people believed about the movement of the Sun and the Earth.

• Statement C is the second sentence of the passage which introduces Nicholas Copernicus and his proposed model and which year it was proposed.

• Statement B is the third sentence of the passage which explains the theory of Nicholas Copernicus.

• Statement A is the last sentence of the passage which shows that other astronomers like, Johannes Kepler and Galileo supported the Copernican theory after nearly a century passed.

• Hence, the correct sequence is D, C, B, A.

The correct passage is: D. There are many popular theories about the solar system. Ancient People believed that the sun moved around the earth and the earth was static. C. Nicholas Copernicus, a Polish priest, proposed a model in 1514. B. Copernicus' view was that the sun was stationary and the earth and the planets moved in orbits around the sun. A. Two astronomers – Johannes Kepler from Germany and Galileo from Italy – supported the Copernican theory after nearly a century passed by.

Q15. Answer: (b) eat

The correct answer is: eat.

Key Points

• Replace 'had eaten' with 'eat' to make the sentence correct.

• Eat means to put food into the mouth and chew and swallow it.

• Example - He used to eat out every day, but now he can't afford it.

• Here, in the question, the given sentence is in the simple present tense and 'everyday' is mentioned. That means it is a daily habit or a continuous process. For this reason, the present form 'eat' should be used.

• We use 'had eaten' in the past perfect tense when a past action occurs before another past action.

• Example - I had eaten recklessly and gained too much weight.

• Therefore, it is clear that the correct answer is option 2.

Hence, the corrected sentence is: They eat an apple every day for breakfast.

Q16. Answer: (c) Obscure

The correct answer is: Obscure

Key Points

• Famous means known and recognized by many people.

• Example - The actor was one of many famous faces at the party.

• Marked option Obscure meaning is difficult to understand and likely to be understood by only a few people.

• Example - The obscure writer was not known in the literary community.

• It is clear that 'Famous' and 'Obscure' are opposite in meaning.

• Therefore the correct answer is option 3.

Additional Information

• Quiet means absence of noise or bustle; silence; calm.

• Concert means a live music performance in front of an audience.

• Affluent means a person who is well-off financially.

Q17. Answer: (d) comprehensive

The correct answer is: comprehensive

Key Points

• Comprehensive means covering everything or all important points.

• Example - She has a comprehensive grasp of the subject.

• In the given passage, 'Comprehensive' means "A complete dispute resolution mechanism deployed state-of-the-art infrastructure".

• Therefore, the correct answer is option 4.

Complete passage: Other countries of comparable size and exposure to Information and Communication Technologies (ICT) have adopted a decentralised organizational structure, liberal policies, and a comprehensive dispute resolution mechanism deployed state-of-the-art infrastructure and used the private-public partnership to market Domain Name Registration Services (DNS), resulting in phenomenal growth of their country code domain name.

Additional Information

• Short means not covering much of the body; brief description.

• Narrow means become or make less wide.

• Restricted means limited in extent, number, scope, or action.

Q18. Answer: (a) Aries is the first sign of the zodiac.

The correct answer is: Aries is the first sign of the zodiac.

Key Points

• The word Zodiac is correctly spelt in the first sentence.

• The Zodiac is a diagram used by astrologers to represent the positions of the planets and stars.

• Example - The sun enters and leaves each sign of the zodiac slightly later each year at the rate of about 1 day every 72 years.

• Therefore, the sentence which has no spelling error is: Aries is the first sign of the zodiac.

• Hence, the correct answer is option 1.

Q19. Answer: (d) Altruism

The correct answer is: Altruism.

Key Points

• Altruism means unselfish concern for other people's happiness and welfare.

• Example - Politicians are not necessarily motivated by pure altruism.

• So, it is clear that 'Altruism' can be used as a one-word substitute for 'Unselfish interest in the welfare of others.'

• Therefore, the correct answer is option 4.

Additional Information

• Celibacy means the state of abstaining from marriage and sexual relations.

• Misanthropy means hatred or distrust of humankind.

• Egoism is an ethical theory that treats self-interest as the foundation of morality.

Q20. Answer: (b) All the employees are going to be asked about the incident that took place in the canteen yesterday.

The correct answer is: All the employees are going to be asked about the incident that took place in the canteen yesterday.

Key Points

• 'To ask' is the main verb here. As per the rule, we use the past participle form of the given verb in the passive voice.

• So the best we can do is make the infinitive verb form passive:

• Active voice: to ask.

• Passive voice: to be asked.

• 'am going' will be converted to 'are going' as the subject and object have been interchanged.

• Therefore, the correct answer is option 2.

Correct Passive Voice: All the employees are going to be asked about the incident that took place in the canteen yesterday.

Q21. Answer: (c) holding

The correct answer is: holding.

Key Points

• 'Holding' is the Present Participle form of the verb 'Hold'.

• A word ending in "-ing" that is made from a verb and is used like a noun is called a gerund.

• Here in the given sentence, the word 'holding' is acting as a gerund. It is used as the subject of the first sentence. That means "Salander was holding the telephone while sitting."

• So, it is clear that the most appropriate word is 'holding'.

• Therefore, the correct answer is option 3.

Correct paragraph: Salander sat for a while (1) holding the telephone after Armansky hung up. She went to her work corner in the living room (2) ____ looked at the notes she had pinned up on the wall and the papers she had (3) __ on the desk. What she had managed to collect was mostly press cuttings and articles (4) __ from the Internet. She took the papers and dropped (5) ____ in a desk drawer.

Q22. Answer: (a) and

The correct answer is: and.

Key Points

• And is a coordinating conjunction, that is used to connect words of the same part of speech, clauses, or sentences, that are to be taken jointly.

• Example - Bread and Butter

• Here, in the given paragraph 'and' is used to join the clauses "She went to her work corner in the living room", "looked at the notes she had pinned up on the wall..."

• So, it is clear that the most appropriate word is 'and'.

• Therefore, the correct answer is option 1.

Correct Paragraph: Salander sat for a while (1) holding the telephone after Armansky hung up. She went to her work corner in the living room (2) and looked at the notes she had pinned up on the wall and the papers she had (3) ____ on the desk. What she had managed to collect was mostly press cuttings and articles (4) __ from the Internet. She took the papers and dropped (5) ____ in a desk drawer.

Additional Information

• So is used as subordinating conjunction to introduce clauses of result or decision.

• But used to introduce a phrase or clause contrasting with what has already been mentioned.

• Although means in spite of the fact that; even though.

Q23. Answer: (d) stacked

The correct answer is: stacked.

Key Points

• Stacked means to arrange things in an ordered pile.

• Example - She opened it and stacked the keys in it.

• Here, in the given paragraph 'stacked' is used to explain "...the papers she had put together at the desk."

• So, it is clear that the most appropriate word is 'stacked'.

• Therefore, the correct answer is option 4.

Correct Paragraph: Salander sat for a while (1) holding the telephone after Armansky hung up. She went to her work corner in the living room (2) and looked at the notes she had pinned up on the wall and the papers she had (3) stacked on the desk. What she had managed to collect was mostly press cuttings and articles (4) ____ from the Internet. She took the papers and dropped (5) ____ in a desk drawer.

Additional Information

• Tacked means to fasten or attach with a tack.

• Slacked means to work more slowly and with less effort than usual.

• Mounded means a small hill or pile of dirt or stones.

Q24. Answer: (d) downloaded

The correct answer is: Downloaded

Key Points

• Downloaded means copied data from one computer system to another, typically over the internet.

• Example - He downloaded a photo from the internet to use as his own.

• Here, in the given paragraph the word 'downloaded' is used to explain that all the papers and notes were copied from the internet.

• So, it is clear that the most appropriate word is 'downloaded'.

• Therefore, the correct answer is option 4.

Correct Paragraph: Salander sat for a while (1) holding the telephone after Armansky hung up. She went to her work corner in the living room (2) and looked at the notes she had pinned up on the wall and the papers she had (3) stacked on the desk. What she had managed to collect was mostly press cuttings and articles (4) downloaded from the Internet. She took the papers and dropped (5) _____ in a desk drawer.

Additional Information

• Cropped means to cut or bite off the tops or ends.

• Uploaded means transferred data from one computer to another, typically to one that is larger or remote from the user or functioning as a server.

• Cut means to divide into pieces with a knife or other sharp implement.

Q25. Answer: (b) them

The correct answer is: them

Key Points

• 'Them' (pronoun) is used as the object of a verb or preposition to refer to two or more people or things previously mentioned or easily identified.

• For example - I bathed the kids and read them stories.

• Here, in the given paragraph the word 'them' refers to "the papers."

• So, it is clear that the most appropriate word is 'them'.

• Therefore, the correct answer is option 2.

Correct Paragraph: Salander sat for a while (1) holding the telephone after Armansky hung up. She went to her work corner in the living room (2) and looked at the notes she had pinned up on the wall and the papers she had (3) stacked on the desk. What she had managed to collect was mostly press cuttings and articles (4) downloaded from the Internet. She took the papers and dropped (5) them in a desk drawer.

Additional Information

• 'It' is often used to refer to animals or non-living things.

• 'They' is used to refer to a person of unspecified gender.

• 'That' is used to identify a specific person or thing observed or heard by the speaker.

Q26. Answer: (b) [figure]

The correct mirror image of the given combination when the mirror is placed at MN is as shown below :-

Detailed Explanation :-

• The line MN is the mirror.

• The word "

" ends with "
". So, the mirror image will start with "
" → Options 4 is eliminated.
• The first letter is "
". So, the last letter in the mirror image will be "
"→ Options 1 is eliminated.
• The third letter is "
". So, the third last letter in the mirror image will be "
"→ Options 3 is eliminated.
Hence, Option 2) is the correct answer.
Additional Information
• In a mirror image Left changes to rightand theright changes to leftwheretop and bottom remains the same.
• When placement of mirror not given, by default we will assume it in vertical direction.
• The starting letter word will be at last after the mirror image drawn with left changes to right and right changes to left.

Q27. Answer: (b) 19o12v5

The logic followed here is :
Alternate letters are converted into their positional values and other letters are written in their lower form.
• CONCEPT
• • PROBLEM
• • Similarly, SOLVE → ?
• Hence, option 2) is the correct answer.

Q28. Answer: (b) 1, 4, 3, 5, 2

The option that represents the correct order of the given words as they would appear in an English dictionary is shown below:
1. Necessary
4. Needlework
3. Negotiate
5. Neigh
2. Networks
Hence, '1, 4, 3, 5, 2' is the correct answer.

Q29. Answer: (a) Green

The logic followed here is:
If two dice have the same two face values in the given image, then third word is opposite to each other.
In given figure,
Here, Blue and White are common.
So, the number opposite to Yellow is Green.
Hence, option 2) is the correct answer.

Q30. Answer: (c) 161

The logic followed here is:
Hence, option 3) is the correct answer.

Q31. Answer: (c) 77

The logic followed here is:
Second number = First number × (First number × 2 - 3)
9 : 135 → 9 × (9 × 2 - 3) = 9 × (18 - 3) = 9 × 15 = 135
6 : 54 → 6 × (6 × 2 - 3) = 6 × (12 - 3) = 6 × 9 = 54
Similarly,
7 : ? → 7 × (7 × 2 - 3) = 7 × (14 - 3) = 7 × 11 = 77
Hence, option 3) is the correct answer.

YourMockTest.com — Free Study Material

Q32. Answer: (a) a S a H S a a H

Given: H _ H _ _ S r _ a H _ _ S r H _ _ S a S r

Let's check each option:

1) a S a H S a a H → H a H S a S r - H a H S a S r - H a H S a S r

• Here we can see 'H a H S a S r' repeating itself.

2) a S a S S a a H → H a H S a S r - S a H S a S r - H a H S a S r

3) S S a H S a a H → H S H S a S r - H a H S a S r - H a H S a S r

4) a S a a a a a H → H a H S a S r - a a H a a S r - H a H S a S r

Hence, option 1) is the correct answer.

Q33. Answer: (c) LARIV

The pattern followed here is:

• In PEARL : LRAEP

• • In ULTRA : ARTLU

• • Similarly, In VIRAL : ?

• We get 'LARIV'.

Hence, Option 3) is the correct answer.

Q34. Answer: (a) 350

The logic followed here is:

Second number = (First number)^2 + (First number ÷ 3)^3

12 : 208 → 12^2+ (12 ÷ 3)^3 = 144 + 64 = 208

9 : 108 → 92 + (9 ÷ 3)3 = 81 + 27 = 108

Similarly, 15 : ? → 152 + (15 ÷ 3)3 = 225 + 125 = 350

Hence, option 1) is the correct answer.

Q35. Answer: (d) [figure]

The pattern :

The logic followed here is:

Black circles are put in place of white circles in the corners.

So, the bottom right white circle will be removed and black circle will be put in the place of it in the corner.

So the correct option is

.

Q36. Answer: (c) 14

The logic followed here is:

First number = 9 × (Second number - 7)

207 : 30 → 207 = 9 × 23 = 9 × (30 - 7)

108 : 19 → 108 = 9 × 12 = 9 × (19 - 7)

Similarly,

63 : ? → 63 = 9 × 7 = 9 × (14 - 7)

Hence, option 3 is the correct answer.

Q37. Answer: (c) 81 : 730

The logic followed here is:

1) 25 : 125 → 25 = 5^2 : 5^2 × 5 = 125

2) 49 : 343 → 49 = 7^2 : 7^2 × 7 = 343

3) 81 : 730 → 81 = 9^2 : 92 × 9 = 729 ≠ 730

4) 36 : 216 → 36 = 6^2 : 62 × 6 = 216

Hence, option 3) is the odd pair.

Q38. Answer: (c) 24220201018

According to the English alphabet series and its positional value:

The logic follows here is:

The positional values of the vowels, i.e. A, E, I, O, U are doubled, rest has same positional values.

• CURD → 342184

• • BREAD → 2181024

• • Similarly, BUTTER →

• So, 24220201018 is the correct answer.

Q39. Answer: (b) 23

The logic followed here is:

Second number = (First number × 2) + 4

16 : 36 → 16 × 2 = 32 → 32 + 4 = 36

9 : 22 → 9 × 2 = 18 → 18 + 4 = 22

Similarly,

23 : 50 → 23 × 2 = 46 → 46 + 4 = 50

Hence, option 2) is the correct answer.

Q40. Answer: (b) [figure]

The correct mirror image of the given combination when the mirror is placed at MN is as shown below :-

Detailed Explanation :-

• The line MN is the mirror.

• The word "

" ends with "

". So, the mirror image will start with "

" → Options 1 is eliminated.

• The second last letter of the word

is "

". So, the second letter in the mirror image will be "

"→ Options 3, 4 are eliminated.

Hence, Option 2) is the correct answer.

Additional Information

• In a mirror image Left changes to rightand theright changes to leftwheretop and bottom remains the same.

• When placement of mirror not given, by default we will assume it in vertical direction.

• The starting letter word will be at last after the mirror image drawn with left changes to right and right changes to left.

Q41. Answer: (b) 63

Logic : First number × 3 = A - 9 = Second number

21 : 54

21 × 3 = 63 - 9 = 54

AND

24 : 63

24 × 3 = 72 - 9 = 63

Similarly,

29 : 78

29 × 3 = 87 - 9 = 78

Hence, 63 is the correct answer.

Q42. Answer: (c) 1, 5, 3, 2, 4

Explanation : The option that represents the correct order of the given words as they would appear in an english dictionary is shown below :

1. Facsimile
5. Fanatical
3. Favourable
2. Frightful
4. Fructification

YourMockTest.com — Free Study Material

Hence, 1,5,3,2,4 is the correct answer.

Q43. Answer: (d) [figure]

The paper when gets unfolded is as shown below:

Hence, 'option 4' is the correct answer.

Q44. Answer: (d) 11

Given :

Explanation:

13 and 14 numbers are common in both of the dices so, now if we rotate the dice from 13 clockwise or anti clockwise direction from the given diagram it is evident that 13 is adjacent to 14 and 12 is opposite to 11.

Hence, 11 is the correct answer.

Q45. Answer: (a) [figure]

Explanation :

Venn diagram for the given set of terms is :

Option 1 :

Both fathers and brothers are males that's why they are partially overlap while mothers are female.

Hence, Option 1 is the correct answer.

Q46. Answer: (d) =, ×, +, –

Given equation - 50 * 24 * 2 * 5 * 3

According to BODMAS rule

Option 1 : 50 + 24 = 2 × 5 × 3

74 = 10 × 3

74 ≠ 30

Option 2 : 50 = 24 + 2 + 5 + 3

50 ≠ 34

Option 3 : 50 - 24 = 2 + 5 × 3

26 = 15 + 2

26 ≠ 17

Option 4 :50 = 24 × 2 + 5 - 3

24 × 2 = 48

48 + 5 = 53

53 - 3 = 50

Hence, =, ×, +, – is the correct answer.

Q47. Answer: (a) (18, 13, 90)

Given :

(37, 28, 333)

(41, 39, 82)

Explanation :

37 - 28 = 9 × 37 (first number) = 333

In the same way (41, 39, 82)

41 - 39 = 2 × 41 = 82

Option 1 : (18, 13, 90) →

18 - 13 = 5 × 18 = 90

Option 2 : (17, 14, 67) →

17 - 14 = 3 × 17 = 51 ≠ 67

Option 3 : (16, 12, 54) →

16 - 12 = 4 × 16 = 64 ≠ 54

Option 4 : (19, 15, 44) →

19 - 15 = 4 × 19 = 76 ≠ 44

Hence, (18, 13, 90) is the correct answer.

YourMockTest.com — Free Study Material

Q48. Answer: (b) 30 : 80

Explanation :

Option 1 : 50 : 150 = 50 × 3 = 150

Option 2 : 30 : 80 = 30 × 3 = 90 ≠ 80

Option 3 : 40 : 120 = 40 × 3 = 120

Option 4 : 20 : 60 = 20 × 3 = 60

So, from all the options 30 : 80 is the odd pair

Hence, 30 : 80 is the correct answer.

Q49. Answer: (a) ZQXRL

Explanation :

The table of alphabet positional value

According to positional value

QUOTE is written as RWRXJ

In the same way, UNION is written as VPLSS

Similarly, “YOUNG” is written as "ZQXRL"

Hence, ZQXRL is the correct answer.

Q50. Answer: (c) XKVW

Explanation :

Table of english alphabet positional value

The pattern followed here is :

Hence, XKVW is the correct answer.

Q51. Answer: (c) 2 min 5 sec

Given:

Circular race of 2500 m,

a man and a woman start from a point towards opposite directions,

With speeds of 37 km/h and 35 km/h, respectively.

Formula used:

Time taken = distance/speed

Calculation:

The relative speed between the man and the woman is,

=> 37 + 35 = 72 km/h

=> (72 × 1000)/(60 × 60)=20ms^(-1).

This means that the man is moving at a speed of 72 km/h with respect to the woman.

To meet the woman,

The man has to cover a distance of 2500m with a speed of 20 m/s.

Time taken = 2500/20=125s, which is equal to 2 min 5 sec.

Therefore The man and the woman will meet each other for the first after 2 minutes and 5 seconds.

Q52. Answer: (d) 30 cm²

Given:

A triangle whose sides are 13 cm, 5 cm and 12 cm.

Formula used:

Area of triangle with sides a, b, c and perimeter '2s'

=> √(s(s-a)(s-b)(s-c)).

s=(a+b+c)/2

Calculation:

The semi perimeter of the triangle is,

=> s=(13+5+12)/2=30/2=15cm ..

Area = √(15(15-13)(15-5)(15-12)).

=> √(15×2×10×3)

YourMockTest.com — Free Study Material

=> √900=30cm²

Therefore The area of the given triangle is 30cm².

Shortcut Trick5, 12, and 13 is the triplet of the right angle triangle

Formula used:

Area of triangle = 1/2 (Base × Height)

Calculation:

Area of triangle = 1/2 (Base × Height)

=> 1/2 (5 × 12)

=> 30 cm².

Therefore The area of the given triangle is 30cm2.

Q53. Answer: (b) 147

Given:

Bakery C sells 245 cakes on Monday,

Out of which 40% are Vanilla cakes and rest are strawberry cakes.

Formula used:

Number of items from a set of items,

=> (percentage of the specific item)/100× total number of items

Calculation:

On Monday,

The strawberry cakes sold by bakery C,

=> 60% of the total number of cakes.

Therefore The number of strawberry cakes sold by Bakery C on Monday is 60/100×245=147.

Q54. Answer: (c) 39

Given:

Three numbers are given 7, 13 and 21.

Formula used:

If a, b, c ,d are in proportional series then a/b=c/d

Calculation:

Let the fourth proportional be x.

Then this means that 7/13=21/x

Solving for x,

x=(21 × 13)/7=39

Therefore The fourth proportional to 7, 13 and 21 is 39.

Q55. Answer: (b) 1944 cm²

Given:

The volume of a cube is 5832 cm3.

Formula used:

Volume of a cube with edge length 'a' = a³

Total surface area of a cube = 6a²

Calculation:

The edge of the given cube = (5832)^(1/3)=18cm

Therefore The total surface area of the cube is 6×18²=1944cm².

Q56. Answer: (b) sin3A

Given:

3 sinA - 4 sin3 A

Formula used:

sin3A = 3sinA - 4sin3 A

Calculation:

One of the identities in trigonometry is sin3A = 3sinA - 4sin3 A.

YourMockTest.com — Free Study Material

Therefore 3sinA - 4sin3 A = sin3A.

Q57. Answer: (d) 2 : 1

Given:

A grocer wants to mix two different pulses costing Rs. 75 and Rs. 90 per kg, to get a mixture costing Rs. 80 per kg.

Formula used:

Price of component A × quantity of A + Price of component B × quantity of B = Total quantity × final price

Calculation:

Suppose the grocer take 'x' kg of the pulses costing Rs 75 per kg and 'y' kg of the pulses costing Rs 90 per kg, to make the mixture worth of Rs 80 per kg.

Now, the total weight of the mixture is 'x+y' kg and its total cost is Rs. (x+y)80

Therefore, it can be written that 75x + 90y=(x+y)80

75x + 90y=80x+80y

5x = 10y

This means that x/y=10/5=2.

Therefore To get a mixture costing Rs. 80 per kg, the grocer as to mix the two pulses in the ratio 2 : 1

Q58. Answer: (a) 40%

Shortcut Trick

Net percentage increase can be quickly calculated using the weighted average method:

Net % Increase = (Sum of ratio parts × respective % increase) ÷ (Total ratio parts)

=> Net % Increase = (12 × 50% + 8 × 25% + 5 × 40%) ÷ (12 + 8 + 5)

=> Net % Increase = (600 + 200 + 200) ÷ 25

=> Net % Increase = 1000 ÷ 25 = 40%

Therefore The correct answer is 40%.

Alternate Method

Given:

Ratio of initial expenses on wheat, vegetables, and oil = 12 : 8 : 5

Price increase for wheat = 50%

Price increase for vegetables = 25%

Price increase for oil = 40%

Assumed Base Increase Wheat 120 +60 (50%) Veg 80 +20 (25%) Oil 50 +20 (40%) Total % Increase = 100 ÷ 250 × 100 = 40%

Calculations:

To make calculations easier, let us multiply the ratio parts by 10.

Let the initial expenses on wheat, vegetables, and oil be 120, 80, and 50 respectively.

=> Total initial expense = 120 + 80 + 50 = 250

After the respective price increases, the new expenses are:

=> New expense on wheat = 120 + (50% of 120) = 120 + 60 = 180

=> New expense on vegetables = 80 + (25% of 80) = 80 + 20 = 100

=> New expense on oil = 50 + (40% of 50) = 50 + 20 = 70

=> Total new expense = 180 + 100 + 70 = 350

=> Total increase in expenses = 350 − 250 = 100

=> Overall percentage increase = (Total Increase ÷ Initial Total Expense) × 100

=> Overall percentage increase = (100 ÷ 250) × 100 = 40%

Therefore The correct answer is 40%.

Additional Information

Weighted Average Method

When different parts of a total undergo independent percentage changes, the overall change can be found directly using: Average % = (w1x1 + w2x2 + ... + w_nx_n) ÷ (w1 + w2 + ... + w_n). This saves calculation time during exams.

Base Value in Percentages

Percentage change always depends entirely on the initial base value. Formula: % Change = (Final Value − Initial Value) ÷ Initial Value × 100.

Ratio Simplification Trick

Instead of strictly using 'x' variables (like 12x, 8x, 5x) for ratios in percentage problems, assuming real numeric values by multiplying the ratio terms by 10 or 100 keeps calculations free of decimals and complex variables.

Q59. Answer: (d) 21.43%

Given:

A table showing the age-wise distribution of number of people who responded to a survey about their favourite style of dance.

Formula used:

Percentage of x from y = x/y× 100

Calculation:

The total number of respondents below 30 years age, who chose Dandiya is 7 + 8 =15.

The total number of respondents till the age of 30 years is 34 + 36 = 70.

Therefore, the percentage of the total respondents below 30 years who chose Dandiya as their favourte dance is 15/70× 100=21.43%.

Q60. Answer: (c) Rs. 2700

Given:

A shopkeeper gives a 35% discount on the marked price of a bottle with a selling price of Rs. 1,755.

Formula used:

Selling price = (100- discount)/100× marked price

Calculation:

Let the marked price be x.

Then, 1755=(100-35)/100× x

Solving for x,

x=1755×100/65=2700

Therefore The marked price of the bottle is Rs. 2700.

Q61. Answer: (d) 7

Given:

The average age of a group is increased by 6 years when a person,

Whose age is 24 years was replaced by a person whose age is 66.

Formula used:

Sum of all observations of a set = average of the set × total no. of observations in the set

Calculation:

Let the number of people in the group be x and their previous average by y.

Then, the previous sum of the ages of the group is 'xy'.

When the person of age 24 years is replaced by a person of age years,

The sum of the ages of the new group is 'xy -24 + 66'.

Since the new average is 'y+6',

The sum of the ages of the new group is 'xy+ 6x'.

Hence, xy-24+66=xy+6x

Solving for x,

x=42/(6)=7

Therefore The number of people in the given group is 7.

Q62. Answer: (c) Rs. 5,000

Given:

A sells an article to B at 10% profit. B sells it to C at 25% profit and C pays Rs. 6,875 for it.

Formula used:

Selling price = (100+ profit)/100× cost price.

Calculation:

Let the price at which A bought the article be x.

Since A sold it at profit of 10%, then B sold it at 25% profit to C for Rs. 6875,

It can be written that 125/100×110/100× x=6875.

Solving for x,

x=6875×100×100/(110× 125)=5000

Therefore The price at which A bought the article is Rs. 5000.

Q63. Answer: (d) Rs. 39 crores

Given:

A pie chart showing the percentage shares of the total expenditure,

On sports made by a country on various sports during 2019-2020

Formula used:

Quantity of the part = percentage × the total quantity of the whole.

Calculation:

According to the pie chart,

The percentage of the total amount spent on hockey is 15%.

15% of 260 = 15/100× 260=39.

Therefore If the total amount spent on sports during 2019-2020 was Rs. 260 crores, then the amount spent on hockey is Rs. 39 crores.

Q64. Answer: (d) Rs. 60,000

Given:

A principle amount of Rs. 90774 is compounded for 2 years with an interest rate of 23% per annum.

Formula used:

Present value = $P/((1+r/100)^n)$

Calculation:

Present value = $90774/((1+23/100)^2)=60000$

Therefore The present value of Rs. 90,774 due 2 years hence, when the interest is compounded at 23% per annum is Rs. 60000

Q65. Answer: (d) 136

Formula used:

Calculation:

According to the BODMAS rule,

178.01 - [86.23 - {40.22 + (28 - 24)}]

=> 178.01 - [86.23 - {40.22 + (4)}]

=> 178.01 - [86.23 - 44.22]

=> 178.01 - 42 .01 = 136

Therefore The value of 178.01 - [86.23 - {40.22 + (28 - 24)}] is 136

Q66. Answer: (b) Rs. 7,29,000

Given:

The value of a residential flat constructed at a cost of Rs. 10,00,000 is depreciating at a rate of 10% per annum.

Formula used:

Present value = $P((100-r)/100)^n$,

Where P is the initial value,

R is the rate at which the value is decreasing annually and

n is time in years.

Calculation:

Present value,

=> $1000000((100-10)/100)^3=1000000(0.9)^3=729000$

Therefore The value of the residential flat after 3 years is Rs. 729000

Q67. Answer: (a) 40

Given:

((777 × 777 × 777) + (423 × 423 × 423))/((777 × 777) - (777 × 423) + (423 × 423)) × 1/((77 - 47))

Formula used:

$x^3+y^3=(x+y)(x^2-xy+y^2)$

Calculation:

Using $x^3+y^3=(x+y)(x^2-xy+y^2)$,

$((777 \times 777 \times 777) + (423 \times 423 \times 423))/((777 \times 777) - (777 \times 423) + (423 \times 423)) \times 1/((77 - 47))=(777+423)\ ((777 \times 777) - (777 \times 423) + (423 \times 423))/((777 \times 777) - (777 \times 423) + (423 \times 423)) \times 1/((77 - 47))=1200/30=40$

Therefore $((777 \times 777 \times 777) + (423 \times 423 \times 423))/((777 \times 777) - (777 \times 423) + (423 \times 423)) \times 1/((77 - 47)) = 40$

Q68. Answer: (c) 320 km

Given:

The number of kilometres that Sonam drives on a Tuesday is,

12.5% less than the number of kilometres that she drives on Monday.

The number of kilometres that she drives on Wednesday is,

20% more than the number of kilometres

That she drives on Tuesday and she drives a total of 336 km on Wednesday.

Formula used:

If z is a% of y and y is b% of x,

Then $z=a/100 \times b/100\times x$.

Calculation:

Here, z = 336, a = 120, b = 100 - 12.5 = 87.5 and x is the kilometres Sonam drives on Monday.

Then,

$\Rightarrow 336=120/100 \times 87.5/100\times x$

Solving for x,

$x=(336\times 100\times 100)/(120\times 87.5) =320$

Therefore The number of kilometres that Sonam drives on Monday is 320.

Q69. Answer: (b) 4 cm

Given:

AL = 8 cm

BL = 3 cm

DL = 6 cm

Concept Used:

$CL \times LD = BL \times LA$

Calculation:

=> Let the length of CL be x cm.

=> Putting the given values in the formula,

$\Rightarrow x\times 6=8\times 3$

$\Rightarrow x=24/6=4$cm

Hence, the length of CL is 4 cm.

Q70. Answer: (b) 999945

Given:

Divisor = 81

Concept Used:

Divisible Number = Largest Number of that digit ÷ Divisor

Calculation:

=> Largest six-digit number = 999999

=> Divisor = 81

=> 999999/81 gives the remainder of 54

=> 999999 – 54 = 999945

Hence, the largest six-digit number exactly divisible by 81 is 999,945

Q71. Answer: (a) 2/7

Given:

Parts of water in the liquid = 3

Parts of medicine in the liquid = 7
Formula used:
Remaining value = Initial value (1 - fraction removed)
Calculation:
Initial value of medicine = 7/10
Remaining value of medicine = 1/2 (as water : medicine = 1 : 1)
So.
Remaining value = Initial value (1 - fraction removed)
=> 1/2 = 7/10 (1 - fraction removed)
=> 5/7 = (1 - fraction removed)
=> fraction removed = 1 - 5/7 = (7 - 5)/7 = 2/7
Therefore The correct answer is option (1).

Q72. Answer: (b) 12 days

Given:
Work Efficiency of A = 3 times of B
Time taken by A to complete the work = 32 days lesser than B
Concept Used:
Total Time = Total Work ÷ Total Efficiency
Calculation:
=> Work efficiency of A and B = 3 : 1
=> Time ratio will be 1 : 3 and Ratio difference = 3 – 1 = 2
=> Time Difference = 32 days
=> So, Ratio of 2 = 32 days, Ratio of 1 = 16 days
=> A alone completes the work in 16 days and B completes in 16 × 3 = 48 days.
=> LCM of 16 and 48 = 48
=> Putting the values in the formula,
=> Time in which both can complete the work together = 48/(3+1)=48/4=12 days
Hence, the number of days in which both A and B can complete the work, working together is 12 days.

Q73. Answer: (d) 73/77

Given
1.5x =0.04y
Calculation
=> 1.5x = 0.04y
=> x/y=0.04/1.5=4/150
=> x/y=2/75
=> Dividing both numerator and denominator by y in the expression, y-xover y+x
=> (x-y)/(y-x)=(1-x/y)/(1+x/y)
=> (1-x/y)/(1+x/y)=(1-2/75)/(1+2/75)
=> Upon simplification, it gives
=> (1-2/75)/(1+2/75)=73/77
Hence, the value of the given expression is 73/77.

Q74. Answer: (b) 2000π cm^3

Given:
Base Diameter = 20 cm
Height = Two times of the radius
Concept Used:
Volume of Cylinder = π r^2h
Calculation:
=> Diameter = 2 × Radius
=> Radius of the base = 20/2=10cm

=> Height of a cylinder = 2 × 10 = 20 cm

=> Putting the values in the formula,

=> Volume of cylinder = $\pi \times 10^2 \times 20$

=> Volume of cylinder = 2000π cm^3

Hence, the volume of a cylinder is 2000π cm^3.

Q75. Answer: (d) 80

Given

((82×82) – (18×18))0.5

Concept Used

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

Calculation

=> ((82×82) – (18×18))^(0.5) = √(82×82)-(18×18)

=> Now, making the pairs we get,

=> √(82×82) -(18×18)=√(82+18)×(82-18)

=> √(82+18)×(82-18)=√100×64=√6400

=> √6400=80

Hence, the simplified value of the expression is 80

Q76. Answer: (b) Kalamandalam Kalyanikutty Amma

The correct answer is Kalamandalam Kalyanikutty Amma.

Key Points

• Kalamandalam Kalyanikutty Amma was an epoch-making Mohiniyattam dance use from Kerala in southern India.

• A native of Thirunavaya in the Malappuram district of the state, she was instrumental in resurrecting Mohiniyattam from a dismal, near-extinct state into a mainstream Indian classical dance, rendering it formal structure and ornamentation.

• The two books Kalyanikutty Amma has authored, "Mohiniyattam - History and Dance Structure" is considered as elaborate and only authentic documentation of Mohiniyattam.

• Kalyanikutty Amma passed the art of Mohiniyattam beyond India.

• The first Russian dancer, Mohiniyattam, was Milana Severskaya.

• In 1997, Kalamandalam Kalyanikutty Amma blessed her on the continuation of the Mohiniyattam tradition.

• Milana Severskaya created in St. Petersburg, Russia the first outside India school of education for Mohiniattam.

• She founded the Natya Theater, where you can see the choreography of Kalamandalam Kalyanikutty Amma in the play, dedicated to her memory.

• Milana Siverskaya has released a film dedicated to the memory of the guru Kalyanikutty Amma in which one can see how the guru taught dance in deep old age.

Additional Information

• Dr. Kalamandalam Radhika is an Indian classical dancer, choreographer, research scholar, teacher, writer, and philanthropist. She was the first non-resident Keralite to win the Kerala Sangeetha Nataka Akademi award for Mohiniyattam. She learned Kuchipudi, Bharatanatyam, Kathakali, and other dance forms.

• Mohiniyattam is an Indian classical dance form that developed and remained popular in the state of Kerala.

• Thiruvananthapuram (or Trivandrum) is the capital of the southern Indian state of Kerala.

Q77. Answer: (d) 2029

The correct answer is 2029.

Key Points

• India will host the ICC Men's Champions Trophy in October 2029.

• India will host three ICC events in the 2024-31 cycle.

• The BCCI will host the 2026 T20 World Cup (with Sri Lanka), the 2029 Champions Trophy as well as the 2031 ODI World Cup (with Bangladesh).

• Pakistan will be hosting the 2025 ICC Men's Champions Trophy.

Additional Information

• The ICC Champions Trophy is a One-Day International (ODI) cricket tournament organised by the International Cricket Council.

• The 2013 tournament was intended to be the final edition of the Champions Trophy, but it was extended to 2017 due to its widespread popularity.

YourMockTest.com — Free Study Material

• In 2018, the ICC decided to replace the tournament with the World Twenty20 championship to be held every two years, and no Champions Trophy was contested in 2021.

• However, as part of the 2021 Future Tour Programme, the event was reinstated for the 2025 cycle onwards.

• In November 2021, the ICC confirmed the tournament would next take place in 2025 in Pakistan, with India hosting the tournament in 2029.

Q78. Answer: (b) Wajid Ali Shah

The correct answer is Wajid Ali Shah.

Key Points

• Malka Jaan of Agra was one of Gauhar Jaan's contemporaries.

• Born in Azamgarh, she studied under several ustads of Agra.

• Later she became a court musician at the durbar of Nawab Wajid Ali Shah in Calcutta.

• Malka Jaan Agrewali became popular for developing her new full-throated thumri singing style. She had a wide repertoire that ranged from dhrupad, khayal, and thumri to the so-called light and folk pieces of Hori, chaiti, kajri, tappa, and ghazal.

Additional Information

• Wajid Ali Shah was the eleventh and last King of Awadh, holding the position for 9 years, from 13 February 1847 to 11 February 1856.

• Shuja-ud-Daula was the Subedar and Nawab of Oudh and the Vizier of Delhi from 5 October 1754 to 26 January 1775

• Asaf-ud-Daula was the Nawab wazir of Oudh ratified by Shah Alam II, from 26 January 1775 to 21 September 1797, and the son of Shuja-ud-Dowlah.

• Major Mohommed Ali Shah is an Indian actor. A former soldier, he is a member of the board of the International Film and Entertainment Festival of Australia gave him an award.

Q79. Answer: (c) Chintaman Raghunath Vyas

The correct answer is Chintaman Raghunath Vyas.

Key Points

• Chintaman Raghunath Vyas, popularly known as C. R. Vyas, was an Indian classical singer. He was known for singing khyal style.

• He also researched traditional ragas and bandishes and composed more than 200 bandishes in different ragas under the pen-name Gunijaan.

• As a tribute to his Guru Gunidas, he started the Gunidas Sangeet Sammelan in 1977.

• He has written a book Raag Sarita which sums up his work in the field of music.

• The updated edition of the book was recently released in 2019 by his son Suhas Vyas.

Additional Information

• Pandit Kumar Gandharva, originally known as Shivaputra Siddharamaya Komkalimath was an Indian classical singer, well known for his unique vocal style and for his refusal to be bound by the tradition of any gharana.

• Balasaheb Poonchwale was a Hindustani classical vocalist and leading figure of the Gwalior gharana. The son and disciple of Raja Bhaiya Poonchwale, he also learned from celebrated musicologists Vishnu Narayan Bhatkhande and S. N. Ratanjankar.

• Pandit Vishnu Narayan Bhatkhande was an Indian musicologist who wrote the first modern treatise on Hindustani classical music, an art that had been propagated for centuries mostly through oral traditions.

Q80. Answer: (b) Mumbai and Thane

The correct answer is Mumbai and Thane.

Key Points

• The first train on the Indian sub-continent ran from Bori Bunder in Mumbai to Thane at 3.30 pm on April 16, 1853.

• The 14-carriage train carried 400 guests and covered a distance of 34 km.

• The inaugural journey received a salute of 21 guns.

• Today, Indian Railways runs around 11,000 trains daily, of which 7,000 are passenger trains.

• The first Railway Workshop was established at Jamalpur, near Munger, Bihar, in 1862.

• It gradually became one of the major industrial units of India, with iron and steel foundries, rolling mills and more.

Additional Information

• Indian Railways is a statutory body under the ownership of the Ministry of Railways, Government of India that operates India's national railway system.

• It manages the fourth largest national railway system in the world by size, with a total route length of 67,956 km as of 31 March 2022.

• Indian Railways runs a total of 23,000+ trains daily of which 13,000+ are passenger services and 9,200+ services are freight.

• The Railway Minister of India currently is Ashwini Vaishnaw. Piyush Goyal was the minister before that.

Q81. Answer: (d) classical singer

The correct answer is classical singer.

Key Points

• strong>Ustad Bade Ghulam Ali Khan was born in Kasur, of the erstwhile Punjab Province, British India in 1902

• Following the partition of India in 1947, Kasur Tehsil was allocated to Pakistan. At the age of five, Bade Ghulam began training in vocal music from his chacha Kale Khan, and later from his father.

• The most famous stalwart of Hindustani music, Bade Ghulam Ali Khan was frustrated with a social set-up that found it difficult to honour his gift as a singer and migrated to India in the early '50s.

Additional Information

• The sarod, with almost the identical roundish belly of the Seniya rabab, with eight main and two chikari strings, and with a longer body as discussed above, is designed by Allauddin Khan along with his instrument-maker brother Ayet Ali Khan.

• Harmonium, also called Reed Organ, free-reed keyboard instrument that produces sound when wind sent by foot-operated bellows through a pressure-equalizing air reservoir causes metal reeds screwed over slots in metal frames to vibrate through the frames with close tolerance.

• A tabla is a pair of twin hand drums from the Indian subcontinent. Since the 18th century, the tabla has been the principal percussion instrument in Hindustani classical music, where it may be played solo, as an accompaniment with other instruments and vocals, and as a part of larger ensembles.

Q82. Answer: (a) The Substance And The Shadow: An Autobiography

The correct answer is The Substance And The Shadow: An Autobiography

Key Points

• The Substance And The Shadow An Autobiography is the autobiography of the veteran actor, Yousuf Khan, popularly known as Dilip Kumar

• Substance and Shadow refer to the dual meaning of John Leech's “Cartoon, No. 1,” but also describes the essence of cartoon art, in general,

• This is an autobiography of Dilip Kumar.

Additional Information

• In "Romancing with Life", the first-ever full-fledged memoir by a leading Bollywood star, Dev Anand tells his remarkable life story as only he can.

• Legendary Indian poet-lyricist-director Gulzar has come out with his new book titled “Actually… I Met Them: A Memoir”. In a memoir published by the publishing group Penguin Random House India.

• An unfinished story was written by O. HENRY a projective technique in which participants are required to complete a story by role play, discussion, or writing.

• It is intended to reveal information about the participants' concerns.

Q83. Answer: (b) Sharankumar Limbale

The correct answer is a Sharankumar Limbale.

Key Points

• Sharankumar Limbale is a Marathi language author, poet, and literary critic.

• He has penned more than 40 books but is best known for his autobiography Akkarmashi. Akkarmashi is translated in several other Indian languages and in English.

• He wrote novels such as Akkarmashi, The outercaste, Towards an Aesthetic of Dalit Literature, The Dalit Brahmin and other stories, Hindu: a novel, Bahujan, Dalit Voice: Literature and Revolt

Additional Information

• Padma Sachdev was an Indian poet and novelist. She was the first modern woman poet of the Dogri language. She also wrote in Hindi. She published several poetry collections, including Meri Kavita Mere Geet (My Poems, My Songs), which won the Sahitya Akademi Award in 1971.

• Amitabha Bagchi was born in 1974 in Delhi. He is the author of three novels. The first, Above Average, was a bestseller. His second novel, The Householder, was published to critical acclaim and the third, This Place, was shortlisted for the Raymond Crossword Book Award 2014.

• Leeladhar Jagudi is an Indian teacher, journalist, and poet of Hindi literature. He is the author of several poetry anthologies including Natak Jari Hai and Shankha Mukhi Shikharon Par and is a recipient of the Sahitya Akademi Award, for his 1997 anthology, Anubhav Ke Aakash Mein Chand.

Q84. Answer: (a) 1928

The correct answer is 1928.

Key Points

• The men's team dominated the prestigious event in the early years, winning six consecutive golds from 1928 to 1956 and added two more since. The Indian hockey men's team has won eight Olympic gold medals in all, six of them in a row (from 1928-1956) and added two more at Tokyo 1964 and Moscow 1980.

• The gold medal at the 1928 Amsterdam Games was the first of the Indian hockey team’s record six-consecutive Olympic triumphs.

Additional Information

• Hockey, outdoor game played by two opposing teams of 11 players each who use sticks curved at the striking end to hit a small, hard ball into their opponent's goal

• Hockey has so much importance in India. It develops hand-eye coordination, improves the resistance power of their hands, and increases the spontaneous responses and reactions during the game. It also improves agility.

• Field hockey is played in India ,Field hockey in India refers to two teams, the India men's national field hockey team and the India women's national field hockey team.

Q85. Answer: (d) Rs. 8,000 crore

The correct answer is Rs. 8,000 crore.

Key Points

• Domestic income (NDPFC) is the net money value of all the final goods and services produced within the domestic territory of a country during a period of one year.

• many non-residential companies and foreign banks operate within the domestic (economic) territory of India.

• Income generated by them is included in India's domestic income. Thus domestic income is a territorial concept since it is defined with reference to the domestic territory.

Additional Information

• Income generated by them is included in India's domestic income. Thus domestic income is a territorial concept since it is defined with reference to domestic territory

• It should be understood that sources of domestic income are (i) income from work (i.e., compensation of employees), (ii) income from property (i.e., operating surplus) and (iii) income from self-employed (i.e., mixed-income).

• Income Tax refers to a percentage of your income that you are liable to pay directly to the government. The money collected by this direct tax route is used by the Government for infrastructural developments and also to pay the employees of central and state government bodies.

Q86. Answer: (a) tissue-organ

The correct answer is tissue-organ

Key Points

• A tissue organ is an organ that lies between tissue and an organ system. Tissues are formed from the same type of cells to act together in a function.

• Tissues of different types combine to form an organ that has a specific function.

• Characteristics of phylum Platyhelminthes are:

• Their body is dorsoventrally flattened.

• They exhibit bilateral symmetry.

• Also, they are triploblastic, with three germ layers.

• They do not have a body cavity and are acoelomate.

• The body is soft and unsegmented.

• They are mostly parasitic with a few free-living.

Additional Information

• Protoplasm is the cytoplasm and nucleus of a cell.

• The term was first defined in 1835 as the ground substance of living material and, hence, responsible for all living processes.

• An organelle or Cellular

• it is a membrane-bound structure found within a cell Just like cells have membranes to hold everything in, these mini-organs are also bound in a double layer of phospholipids to insulate their little compartments within the larger cells.

• Cell-Tissue is a group of cells that have similar structures and that function together as a unit.

• Primary types of body tissues include epithelial, connective, muscular, and nervous tissues.

YourMockTest.com - Free Study Material

Q87. Answer: (a) Alessandro Volta

The correct answer is Alessandro Volta

Key Points

• Alessandro Volta was an Italian physicist, chemist, and lay Catholic who was a pioneer of electricity and power and is credited as the inventor of the electric battery and the discoverer of methane.

• He was an Italian physicist whose invention of the electric battery provided the first source of continuous current.

• Volta invented the battery when trying to understand the work of Luigi Galvani who managed to make frog legs twitch when he touched them with a metal instrument.

Additional Information

• Michael Faraday was an English scientist who contributed to the study of electromagnetism and electrochemistry. His main discoveries include the principles underlying electromagnetic induction, diamagnetism and electrolysis.

• Luigi Galvani Italian physician and physicist who investigated the nature and effects of what he conceived to be electricity in animal tissue.

• Henri becquerel's discovery of spontaneous radioactivity Becquerel was awarded half of the Nobel Prize for Physics in 1903, the other half being given to Pierre and Marie Curie for their study of the Becquerel radiation.

Q88. Answer: (a) Sania Mirza

The correct answer is Sania Mirza.

Key Points

• Ace Against Odds is the 2016 biography of the Indian professional tennis player Sania Mirza.

• Sania Mirza wrote Ace Against Odds with the help of her father and mentor Imran Mirza & sports journalist Shivani Gupta.

• Indian tennis star Sania Mirza posted a birthday wish for her husband Shoaib Malik on social media, calling her partner "the guy who I can't live with or without."

• If you do or achieve something against (all) the odds/against all odds, you do or achieve it although there were a lot of problems and you were not likely to succeed: Against all the odds, he recovered.

• “Ace against Odds” by Sania Mirza is an autobiography written with the help of her father Imran Mirza and sports journalist Shivani Gupta. The book is as fascinating as her tennis journey and her life.

Additional Information

• Unbreakable is an autobiography, of Mary Kom, published by Harper Collins, the book chronicles Mary's relentless struggle and an unflinching passion for boxing. "My story is the same as that of thousands of women in this country.

• PT Usha - Pilavullakandi Thekkeparambil Usha to use her full name - is one of India's greatest athletes, often called the country's "queen of track and field"

• Pilavullakandi Thekkeraparambil Usha born 27 June 1964 is a retired Indian track and field athlete. She was born in Kuttali, Kozhikode, Kerala.

• Indian weightlifter Karnam Malleswari holds the distinguished honour of being the first woman from India to win a medal at the Olympics. Her career's crowning achievement came at the Sydney 2000 Olympics.

Q89. Answer: (b) Alkanes

The correct answer is Alkanes.

Key Points

• Alkanes group was given the name ‘paraffin’.

• Paraffins, also known as alkanes, are saturated compounds that have the general formula CnH_(2n+2), where n is the number of carbon atoms.

• The simplest alkane is methane (CH4), which is also represented as C1.

• Alkanes are called paraffin because they have a little affinity towards a general reagent. In other words, alkanes are inert substances.

• Paraffin wax was first produced commercially in 1867, less than 10 years after the first petroleum well was drilled.

Additional Information

• In organic chemistry, an aldehyde is an organic compound containing a functional group with the structure R−CH=O.

• The common names of aldehydes are taken from the names of the corresponding carboxylic acids: formaldehyde, acetaldehyde, and so on

• Alcohol is an organic compound with a hydroxyl (OH) functional group on an aliphatic carbon atom.

• OH is the functional group of all alcohols, we often represent alcohols by the general formula ROH, where R is an alkyl group.

• The word acid is derived from the Latin acidus/acēre, meaning 'sour'.

• There are two basic types of acids organic and inorganic acids. Inorganic acids are sometimes referred to as mineral acids.

Q90. Answer: (d) V V Giri

The correct answer is V V Giri.

Key Points

• Varahagiri Venkata Giri 10 August 1894 — 24 June 1980 was an Indian politician and activist from Berhampur in Odisha.

• Giri was honoured by the Government of India with the Bharat Ratna in 1975. Giri died on 24 June 1980.

• Giri was elected the third vice president of India on 13 May 1967, a post he held for nearly two years till 3 May 1969.

• Giri was the first vice president to not complete his full term in office on account of being elevated to the office of the president and was the third vice president to be elected to the presidency.

• The 4th President of India from 24 August 1969 to 24 August 1974 and 3rd vice president of India from 13 May 1967 to 3 May 1969.

Additional Information

• John Adams, a remarkable political philosopher, served as the second President of the United States (1797-1801), after serving as the first Vice President under President George Washington.

• There have been 49 vice presidents of the United States since the office came into existence in 1789.

• Husain, Jamia became closely associated with the Indian freedom movement. He was awarded the Bharat Ratna (India's highest civilian honour) in 1963.

• He believed in the total development of children can take place through Basic Education, which is craft centred, creative, productive, and self-supporting. According to him, productive work is an instrument of education.

• Bharat is My Home is an excerpt from the speech of President Dr. Zakir Hussain. He delivered this speech in 1967, after taking oath as President. He had also been the Governor of Bihar before becoming President.

• Gopal Swarup Pathak (26 February 1896 – 4 October 1982) was the fourth vice president of India from August 1969 to August 1974. He was the first Indian vice president not to succeed his superior as President.

Q91. Answer: (a) Kathak

The correct answer is Kathak.

Key Points

• Uma Sharma has been conferred the Padma Bhushan award for enriching Kathak form of Classical Dances in India.

• She was also bestowed with the Sangeet Natak Akademi Award and also the Sahitya Kala Parishad Award. Sharma has also been honoured with the “Srijan Manishi” title by Akhil Bhartiya Vikram Parishad for her great contribution to Kathak.

• Uma Sharma (born 1942) is a Kathak dancer, choreographer, and teacher. She also runs the Bharatiya Sangeet Sadan, Delhi, a classical dance and music academy, situated in New Delhi, founded by her father in 1946.

• In 1973 she became the youngest dancer to be conferred with the Padma Shri by the Government of India, and Padma Bhushan 2001.

Additional Information

• The world-famous Kathak dancer, Pandit Birju Maharaj is the face of the Kalka-Bindadin Gharana of Lucknow.

• Kathak, a north Indian dance form, is a mixture of dance and drama which is usually performed by both men and women.

• Venkatalakshamma (29 May 1906 – 1 July 2002) was a renowned Bharatanatyam dancer. A doyenne of the Mysore Style of Bharatanatyam.

• Savitha Sastry (born 11 December 1969) is an Indian dancer and choreographer best known as an exponent of Bharatanatyam.

• Konsam Ibomcha Singh was awarded the Padma Shri in recognition of his distinguished services in Arts, of preserving the century-old dying art of Laiphadabi (doll) making of the Meitei community in Manipur.

Q92. Answer: (c) Padma Bhushan

The correct answer is Padma Bhushan.

Key Points

• Mrinalini Sarabhai is famous for Bharatanatyam.

• Mrinalini's older sister Lakshmi Sehgal was the commander-in-chief of the Rani of the Jhansi regiment which was an all-women combat regiment of the Indian National Army.

• Mrinalini was born to a Tamil Brahmin father and Malayali Nair mother in present-day Kerala on 11 May 1918. Bharatanatyam is a dance of Tamil Nadu in southern India.

• She trained over 18,000 students in Bharatnatyam and Kathak.

Additional Information

• Uday Shankar is known as the Father of Modern Dance in India.

• The Marshal of the Indian Air Force Arjan Singh is the first and the only five-star rank officer in the Indian Air Force. Singh was conferred Padma Vibhushan in 1965.

YourMockTest.com – Free Study Material

• It's a known fact that Sachin Tendulkar is the only sportsperson who was conferred with the Bharat Ratna in 2014.

• Yoga Guru Swami Sivananda, Ghulam Nabi Azad Among Winners.

• Sonu Nigam receives Padma Shri Award, Victor Banerjee conferred with Padma Bhushan.

Q93. Answer: (c) Sitar

The correct answer is Sitar.

Key Points

• Ustad Vilayat Khan (28 August 1928 – 13 March 2004) was an Indian classical sitar player.

• Along with Imdad Khan, Enayat Khan, and Imrat Khan, he is credited with the creation and development of gayaki ang (an attempt to mimic the sound of the human voice) on the sitar.

• Ustad Enayat Khan (1894–1938) also known as Nath Singh was one of India's most influential sitar and surbahar players in the first decades of the 20th century. He was the father of Vilayat Khan, one of the topmost sitariyas (sitar players) of the postwar period.

• Vilayat Khan died on 13 March 2004 in Mumbai, India at age 75.

Additional Information

• The Hindu God Lord Krishna is traditionally considered a master of the bamboo flute.

• Pandit Shankar Ghosh (10 October 1935 – 22 January 2016). A tabla maestro from the Farukhabad Gharana of Hindustani Classical music, Pandit Shankar Ghosh is noted as one of the greatest artists of all time.

• Distinguished players of the tabla include Alla Rakha Khan and his son Zakir Hussain.

• James Galway is considered by many seasoned and newbie flute players as one of the greatest flute players and the most famous in the world.

• Hariprasad Chaurasia (1st July 1938) is known internationally as the greatest living master of the bansuri, the North Indian bamboo flute.

Q94. Answer: (a) Srimanta Sankardev

The correct answer is Srimanta Sankardev.

Key Points

• Srimanta Sankardev invented and perfected India’s classical dance form Sattras.

• It is believed that Bharatnatyam was revealed by Lord Brahma to Bharata, a famous sage who then codified this sacred dance in a Sanskrit text called the Natya Shastra.

• Sattriya is a classical Indian dance that originated in its eastern state of Assam.

• There are nine classical dance forms in India, which include Bharatnatyam, Kathak, Kathakali, Kuchipudi, Manipuri, Mohiniyattam, sattriya, and chhau.

• Bharatanatyam is the first classical dance practice in India. The dance form was predominant in primeval Tamil Nadu, and numerous records have veiled them such as Natya Shastra.

Additional Information

• K. Uma Rama Rao born Uma Maheshwari on 4 July 1938 – 27 August 2016 was an Indian Kuchipudi dancer, choreographer, research scholar, author, and dance teacher.

• She was also the Founder & Director of Lasya Priya Dance Academy, established in 1985 in Hyderabad, India.

• Uday Shankar was an artist, dancer, and choreographer who popularized Indian dance through his effective use of western theatrical techniques in combination with classical Indian dance.

• Uday Shankar (8 December 1900 – 26 September 1977) was an Indian dancer and choreographer.

• Uday Shankar was the first to bring the concept of modern dance to India with his novel approach and works

• Guru Gopinath was an exponent of various styles of Indian dances. The illustrious 'Raam Leela' of Delhi, choreographed and directed by him was its glorious proof.

Q95. Answer: (a) Arabian Sea

The correct answer is Arabian Sea.

Key Points

• The Arabian Sea is to the northwest and the Andaman Sea is to the northeast.

• The Arabian Sea is the Northwestern part of the Indian Ocean, lying between India and the Arabian Peninsula.

• It has an area of about 1,491,000 sq miles (3,862,000 sq km) and an average depth of 8,970 feet (2,734 m).

• The Arabian Sea is named after the Arabian merchants who dominated the sea from the 9th century to the late medieval period of history.

• Mumbai is located on the West Coast of India. Bounded by India, the Arabian Sea is a region of the Indian Ocean.

YourMockTest.com — Free Study Material

Additional Information

• The five countries Azerbaijan, Kazakhstan, Russia, Turkmenistan, and Iran share the natural heritage of the Caspian Sea.

• The Caspian Sea is home to a wide range of species and is known for its caviar and oil industries.

• Despite their political and social diversity, the people of the region share a common concern for the Caspian.

• The Caribbean Sea, the suboceanic basin of the western Atlantic Ocean, lying between latitudes 9° and 22° N and longitudes 89° and 60° W.

• The Mediterranean is an intercontinental sea located between Europe, North Africa, and Western Asia and connected to the Atlantic Ocean through the strait of Gibraltar.

Q96. Answer: (d) Bimal Patel

The correct option is Bimal Patel.

Key Points

• The ILC was formed on November 21, 1947, by the UNGA.

• Bimal Patel has been elected to the ILC for a five year term starting January 1, 2023.

• Its headquarter is in Geneva, Switzerland.

• ILC is a body of experts that helps in developing and codifying international law.

• ILC will hold its 73rd session at the UNO in Geneva from 18 April to 3 June and from 4 July to 5 August 2022.

Additional Information

Main Bodies of the UN	Headquarter
General Assembly	New York, US
Security Council	New York, US
Economic and Social Council	New York, US
Trusteeship Council	New York, US
International Court of Justice	Hague, Netherlands
Secretariat	New York, US

Q97. Answer: (d) Reproduce

The correct answer is Reproduce.

• The factor to which the animal's response is reproduce is a biotic factor.

• So, the correct option is Reproduce.

Key Points

• There are two types of factors affecting the ecosystem:

• Biotic factors

• Abiotic factors

• Biotic factors are the living parts of an ecosystem that shapes its environment.

• Some common biotic factors are consumers, producers, herbivores, carnivores, omnivores, and decomposers.

• Abiotic factors are non-living parts of an ecosystem that shapes its environment.

• Five common abiotic factors are atmosphere, temperature/ sunlight, water, chemical elements, and wind.

Additional Information

• An ecosystem is a place where the living and nonliving components 'interact with each other.

• Type of ecosystems:

• Aquatic Ecosystem: Freshwater ecosystem, Marine ecosystem

• Terrestrial Ecosystem: Forest ecosystem, Grassland ecosystem, Tundra ecosystem, and Desert ecosystem.

• The largest ecosystem in the world is the aquatic ecosystem. It constitutes 70% of the surface of the earth.

Q98. Answer: (b) Centrosome

The correct option is Centrosome.

Key Points

• Centrosome is the major microtubule-organising centre (MTOC) in eukaryotic cells involved in various cellular processes, including sensory reception, locomotion, and embryogenesis.

• MTOC is a structure in eukaryotic cells from which microtubules emerge.

• Some MTOCs are:
• Centrosomes (in animals)
• Basal body (in cilium)
• Spindle pole body (in yeasts)
• Cell is the basic unit of life. there are two types of cells:
• Prokaryotic cells (cells without a nucleus)
• Eukaryotic cells (cells with a nucleus)
• Robert Hooke discovered the cell in 1665. Later Anton Van Leeuwenhoek noted that the cells are live. In 1883, Robert Brown, a Scottish botanist, described the nucleus inside the cell.

Additional Information

• Lysosomes, also known as the Suicide bags of the cell.
• Plastid is a membrane-bound organelle found in plant cells.
• Vacuoles, store food, water, and other waste materials in the cell.

Q99. Answer: (b) Chhattisgarh

The correct option is Chhattisgarh.

Key Points

• Nijaat campaign is launched by the district police of Koriya in the state of Chhattisgarh.
• World Drug day is celebrated on 26 June.
• National Anti-Drug day is celebrated on 2nd October.
• "Nasha Mukt Bharat Abhiyan" is launched by the Ministry of Social Justice and Empowerment.
• "Nasha Mukt Bharat Abhiyan was launched in 272 most vulnerable districts science August 2020 to address the problem of Drug Abuse among the youth of India.

Additional Information

International Yoga Day	**21st June**
World Health Day	7th April
International Sports Day	6th April
World Environment Day	5th June
International Youth Day	12th August

Q100. Answer: (b) PV Sindhu

The correct option is PV Sindhu.

Key Points

• PV Sindhu is the only Indian female to win two consecutive Olympics medals.
• She won silver medal in the 2016 Rio Olympics and bronze medal in the 2020 Summer Olympics, Tokyo.
• She had been awarded by Padma Bhushan Award in 2021.
• Other awards won by Sindhu are the 2013 Arjun Award, 2015 Padma Shri, 2016 Major Dhyanchand Khel Ratna Award, and 2019 BBC Sportswomen of the year.

Additional Information

• Dutee Chand is the first Indian to win gold in global competition and the third Indian to qualify for women's 100 m in Olympics.
• Mary Kom is the first Indian female boxer to qualify for Summer Olympics, Tokyo.
• Mirabai Chanu won the first gold in Commonwealth Games 2022.

More previous year papers and mock tests: **www.yourmocktest.com/pyq**

YourMockTest.com — Free Study Material