SSC CHSL Previous Paper 28 (Held On: 19 Oct 2020 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2020 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. In the given sentence identify the segment which contains a grammatical error.

There are some members who haven't paid his subscription yet.

(a) some members
(b) There are
(c) who haven't paid
(d) his subscription yet

Q2. Four jumbled sentences are given. Select the option that gives their correct order.

A. Put equal quantities of water and milk in a saucepan and keep it on the flame.

B. Now put some ginger, tea powder and sugar as per taste and boil it for a couple of minutes.

C. Tea is one of the most common Asian drinks and is very simple to make.

D. Turn off the flame, strain it into a cup and serve it hot.

(a) ABCD
(b) BCAD
(c) CBAD
(d) CABD

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

REVERED

(a) Cherished
(b) Despised
(c) Valued
(d) Esteemed

Q4. Four jumbled sentences are given. Select the option that gives their correct order.

A. The middle sun was the one we usually see every day, but the ones on either side were the sun’s smaller reflections.

B. It looked like there were three suns in the sky.

C. A local meteorological centre explained that reflection is caused by sunshine high in the sky and light passing through snow crystals in the air.

D. A rare celestial phenomenon appeared in Mongolia.

(a) DBCA
(b) DBAC
(c) ADBC
(d) ACBD

Directions

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

The Ken Gharial Sanctuary is a wildlife sanctuary near Panna in Madhya Pradesh. It is part (1)____ the Gharial Conservation association where captive-bred gharials (2)__ released to help regenerate the gharial ecosystem. (3)__ is located at the Ken River, north of Panna National Park. Here you can also (4)__ the majestic Raneh Falls on the Ken River. The Sanctuary is (5)____ for visitors during monsoon season.

Q5. Select the most appropriate option for blank number 1.

(a) with
(b) of
(c) in
(d) at

Q6. Select the most appropriate option for blank number 2.

(a) had
(b) was
(c) are
(d) is

Q7. Select the most appropriate option for blank number 3.

(a) This
(b) These
(c) It
(d) That

Q8. Select the most appropriate option for blank number 4.

(a) climb
(b) see
(c) look
(d) regard

Q9. Select the most appropriate option for blank number 5.

(a) closed
(b) finished
(c) locked
(d) banned

Q10. Select the correct indirect form of the given sentence.

Mother said to Avika, "Finish these sums before you go to the park."

(a) Mother told Avika to finish those sums before she goes to the park.
(b) Mother told Avika to finish these sums before you go to the park.
(c) Mother told Avika to finish those sums before she went to the park.
(d) Mother told Avika to finish those sums before she was going to the park.

Q11. Select the most appropriate synonym of the given word.

GLUM

(a) Bright
(b) Nervous
(c) Dismal
(d) Afraid

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Q12. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

All the shops and restaurants have been closed during the bandh last Saturday.

(a) were closed
(b) has been closed
(c) are being closed
(d) No improvement

Q13. Select the most appropriate meaning of the given idiom.

Go off at a tangent

(a) Become boisterous
(b) Change the subject immediately
(c) Go on at great length
(d) Forget things in between

Q14. Select the word which means the same as the group of words given.

A small compartment in an aircraft for the pilot

(a) Cockpit
(b) Fuselage
(c) Chassis
(d) Canopy

Q15. In the given sentence identify the segment which contains a grammatical error.

Someone have walked away with my umbrella.

(a) my umbrella
(b) have walked
(c) away with
(d) Someone

Q16. Select the most appropriate word to fill in the blank in the given sentence.

When he came back home safe that night, everybody _____ a sigh of relief.

(a) raised
(b) heaved
(c) inhaled
(d) exhaled

Q17. Select the most appropriate synonym of the given word.

OPULENT

(a) Economical
(b) Poor
(c) Sumptuous
(d) Depressed

Q18. Select the word which means the same as the group of words given.

A garden with fruit trees

(a) Grove
(b) Nursery
(c) Vineyard
(d) Orchard

Q19. Select the most appropriate ANTONYM of the given word.

DECAY

(a) Decline
(b) Growth

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(c) Corrosion
(d) Rotting

Q20. Select the INCORRECTLY spelt word.
(a) Irradicate
(b) Irreverent
(c) Irrational
(d) Irregular

Q21. Select the correct passive form of the given sentence.
For reaching the station, they hired an auto.
(a) For reaching the station, an auto was hired by them.
(b) For reaching the station, an auto was being hired by them.
(c) For reaching the station, an auto is hired by them.
(d) For reaching the station, an auto had been hired by them.

Q22. Select the most appropriate meaning of the given idiom.
Cool it
(a) To be angry
(b) To be nervous
(c) To relax
(d) To wait

Q23. Select the INCORRECTLY spelt word.
(a) Obvious
(b) Courageous
(c) Vicious
(d) Deliceous

Q24. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.
Avika understands French, does she?
(a) is she
(b) No improvement
(c) isn't it
(d) doesn't she

Q25. Select the most appropriate word to fill in the blank in the given sentence.
Our professor speaks English with a _____ Oriya accent.
(a) widespread
(b) vague
(c) pronounced
(d) remarkable

GENERAL INTELLIGENCE

Q26. Four letter-Cluster have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.
(a) TPMKJ
(b) WSPNM
(c) UQNLK
(d) ROLIF

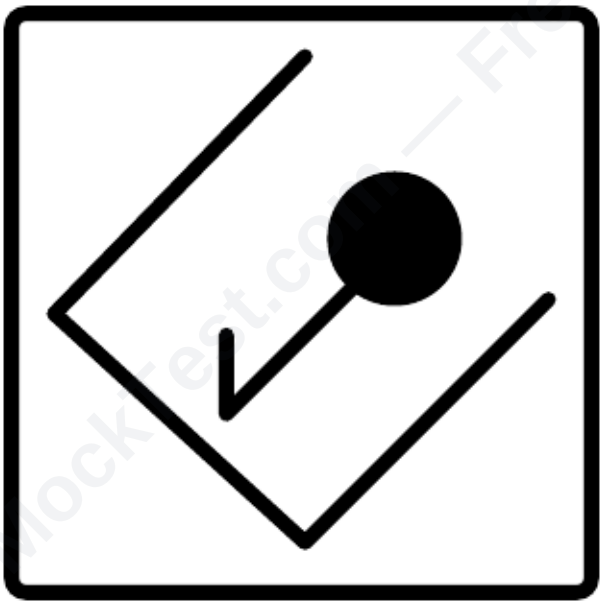
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Q27. Select the number that can replace the question mark (?) in the following series.

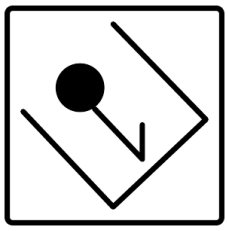
2, 10, 26, 50, 82, ?

(a) 120
(b) 114
(c) 124
(d) 122

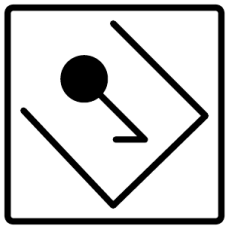
Q28. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



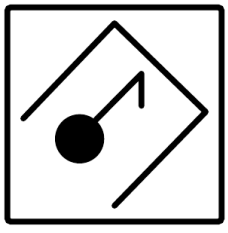
(a)



(b)

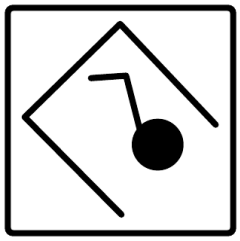


(c)



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(d)



Q29. There are 946 teacher and students in a school. If there is one teacher for every 42 students, then how many teachers are there in the school ?

(a) 21
(b) 22
(c) 20
(d) 23

Q30. Select the option in which the numbers are related in the same way as are the numbers of the following set.

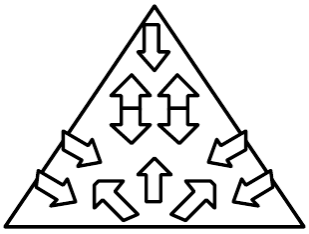
(5, 8, 39)

(a) (6, 8, 44)
(b) (11, 14, 74)
(c) (13, 16, 88)
(d) (9, 12, 63)

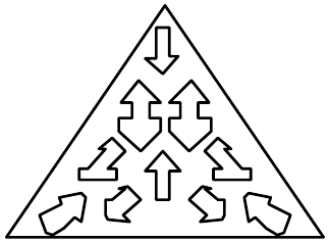
Q31. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded ?



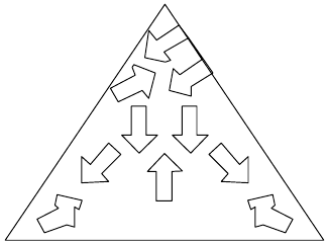
(a)



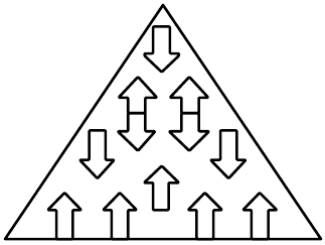
(b)



(c)



(d)



Q32. Arrange the following words in a logical and meaning order.

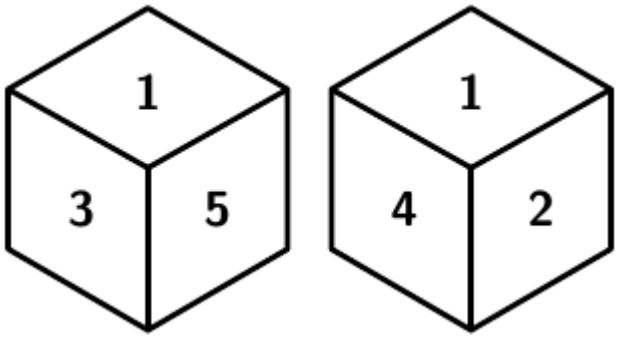
1. CFL bulb
2. Bulb
3. Lantern
4. Earthen lamp
5. LED bulb

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

Q33. The total of the ages of Ram, Shyam and Adil is 60 years. What was the total of their ages four years ago ?

(a) 46 years
(b) 48 years
(c) 36 years
(d) 50 years

Q34. Two different position of the same dice are shown. Select the number that will be on the face opposite to the face having number '3'



(a) 2
(b) 3
(c) 4
(d) 6

Q35. Read the given statements and conclusions carefully. Assuming that the information given in the statement is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

1. All bowls are plates.
2. No plate is a cup.

Conclusions

I. Only some bowls are cups.

II. No bowl is a cup.

(a) Only conclusion I follows.

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(b) Neither conclusion I nor II follows.
(c) Both conclusion I and II follow.
(d) Only conclusion II follows.

Q36. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

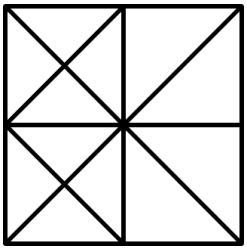
RAMP : IZNK :: CEILING : ?

(a) YWSPSNU
(b) WUQNQLS
(c) XVTRPNL
(d) XVRORMT

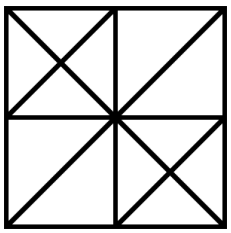
Q37. Select the option in which the given figure is embedded. (Rotation is not allowed)



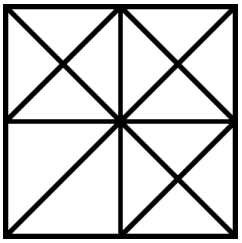
(a)



(b)

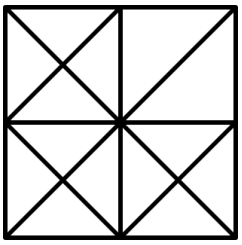


(c)

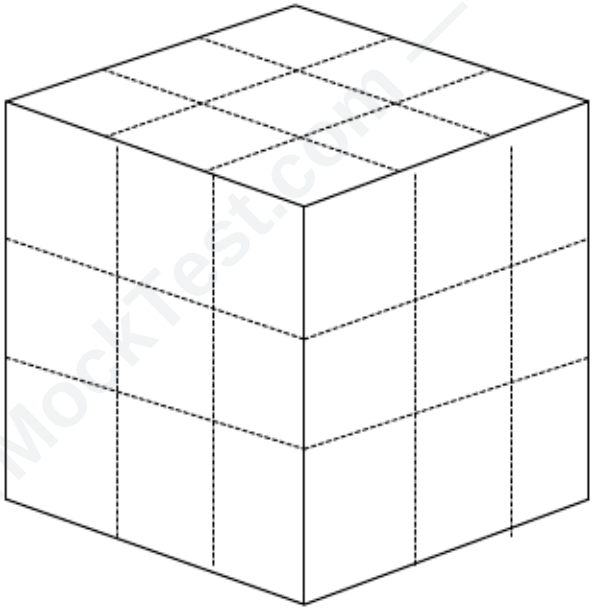


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(d)

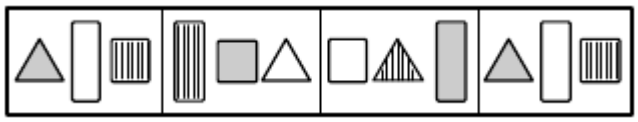


Q38. A cube of 3" × 3" × 3" inch size was painted on all six sides and then cut into 27 smaller cubes of 1 inch size. How many smaller cubes will have only two sides painted ?

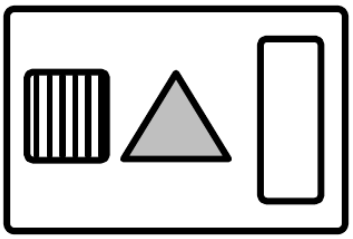


(a) 6
(b) 12
(c) 8
(d) 10

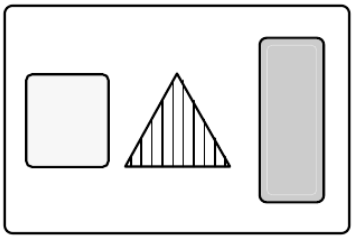
Q39. Select the option figure that will come next in the following series.



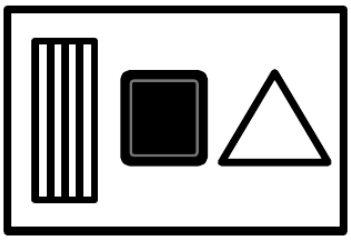
(a)



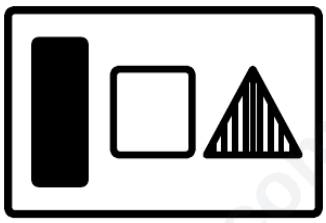
(b)



(c)



(d)



Q40. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

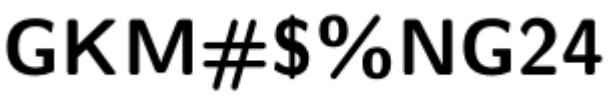
132 : 12

(a) 240 : 15
(b) 169 : 13
(c) 182 : 14
(d) 224 : 15

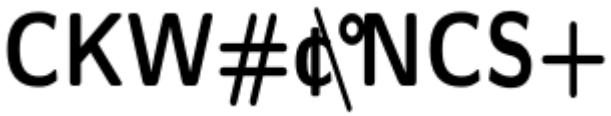
Q41. If Rat is coded as 93 and Rabbit is coded as 25, then how will you code Horse ?

(a) 70
(b) 56
(c) 07
(d) 65

Q42. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



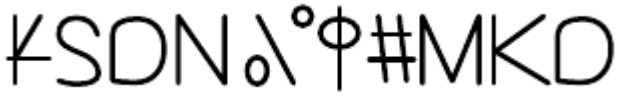
(a)



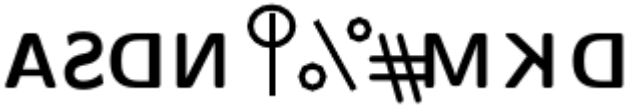
(b)



(c)



(d)



Q43. 'Anemia' is related to 'Blood' in the same way as 'Hepatitis' is related to ' _____'.

(a) Viral
(b) Toxin
(c) Liver
(d) Inflammation

Q44. Read the given statement and conclusion carefully. Assuming that the information given in the statement is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion logically follow(s) from the statements.

Statements:

All cars are mangoes

All buses are mangoes

Some apples are buses.

Conclusions:

I. Some cars are buses.

II. Some mangoes are cars.

III. Some mangoes are apples.

(a) Only conclusion I and II follow.
(b) Only conclusions I and III follow.
(c) Only conclusion I follows.
(d) Only conclusion II and III follow.

Q45. In a certain code language, CLOTH is written as LCPHT. How will GARMENT be written in that language ?

(a) AGTNMRE
(b) AGMRTNE
(c) RAGNTNE
(d) RAGMTNE

Q46. Select the letter-cluster that can replace the question mark (?) in the following series.

STRAIN : TRAIN :: STABLE : ?

(a) TABLE
(b) BALES
(c) ABLE
(d) LABLE

Q47. Which two numbers need to be interchanged to make the following equation correct ?

8 × (4/3) + 9 - 5 = 10

(a) 8, 4
(b) 9, 3
(c) 5, 3
(d) 4, 3

Q48. Select the letter-cluster that can replace the question mark (?) in the following series

DFH, FHJ, ?, JLN, LNP

(a) HJM
(b) HJL
(c) HKL
(d) HJK

Q49. Which two numbers should be interchanged in the following equation to make it correct ?

12 × 2 + 8 - 48 ÷ 6 = 20

(a) 12 and 48
(b) 6 and 8

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(c) 8 and 12
(d) 2 and 6

Q50. In a certain language, a letter is coded by the letter at the same position but from the end of the English alphabet, then how the word MANGO will be written in that code language ?

(a) NZMTL
(b) NMZLT
(c) NMZTL
(d) MNZLT

QUANTITATIVE APTITUDE

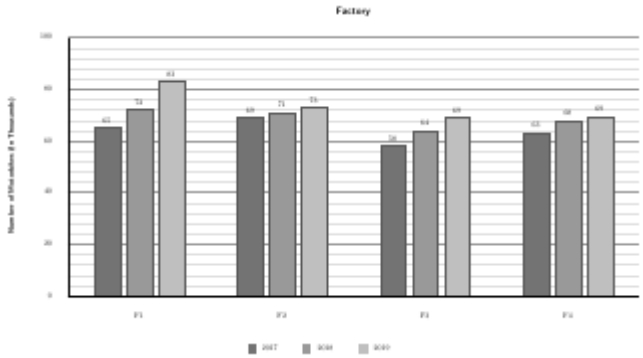
Q51. If a shopkeeper sells an item that is marked as Rs. 3685 for Rs. 2845, then how much discount is he offering ?

(a) 29.52%
(b) 22.795%
(c) 34.87%
(d) 26.59%

Q52. If Sec A = 5/3, then what is the value of Cot A ?

(a) 4/5
(b) 4/3
(c) 3/5
(d) 3/4

Q53. The following bar graph shows the sales (in thousands) of motor bikes by the factories, F1, F2, F3, and F4 in 2017, 2018 and 2019.



Which factory had the highest sales across all the years ?

(a) F3
(b) F1
(c) F4
(d) F2

Q54. The measures of three angles of a triangle are in the ratio of 3 : 2 : 1. The triangle is a/an:

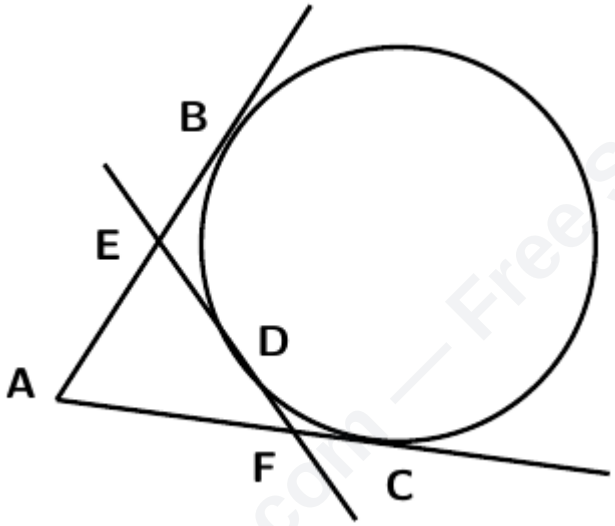
(a) acute angled triangle
(b) obtuse angled triangle
(c) right angled triangle
(d) equilateral triangle

Q55. A library has an average of 265 visitors on Sundays and 130 visitors on other days. The average number of visitors per day in a month of 30 days beginning with a Monday is:

(a) 135
(b) 165
(c) 148
(d) 129

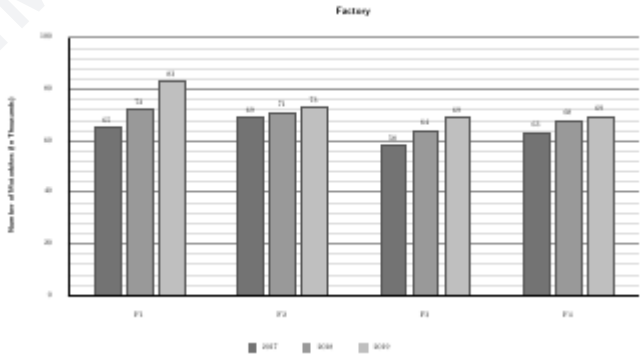
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Q56. In the given figure, AB, AC and EF are tangents to a circle. If AC = 15 cm and DE = 3 cm, then the length of AE is:



(a) 12 cm
(b) 24 cm
(c) 18 cm
(d) 9 cm

Q57. The following bar graph shows the sales (in thousands) of motorbikes by the factories, F1, F2, F3, and F4 in 2017, 2018, and 2019.



Which factory had the least number of sales across all the years?

(a) F1
(b) F3
(c) F2
(d) F4

Q58. The value of Sin^4θ + Cos^4θ + 2Sin²θ Cos²θ is:

(a) 2
(b) 4
(c) 0
(d) 1

Q59. Three sides of a triangle measure 6 cm, 10 cm and x cm. The minimum integral value of x is:

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

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Q60. Prem purchased an old printer for Rs. 3,200 and spent Rs. 600 on its repair. He sold it for Rs. 4,280. His profit per cent is closest to: (correct upto two decimal places)

(a) 16.92%
(b) 18.45%
(c) 15.78%
(d) 12.63%

Q61. If x + 1/x = 4 then find the value of x^4 + 1/(x^4)

(a) 128
(b) 194
(c) 162
(d) 136

Q62. A man took a loan from a bank at the rate of 11% p.a. simple interest. After three years, he had to pay Rs. 9570 interest only for the period. The principal amount borrowed by him was:

(a) Rs. 27,685
(b) Rs. 25,000
(c) Rs. 29,000
(d) Rs. 26,545

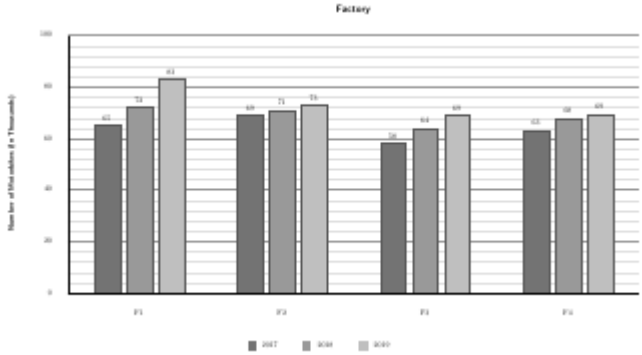
Q63. The equation of a straight line on a point (3, -5) and slope 2 is:

(a) 3x - 2y - 5 = 0
(b) 3x - 5y - 2 = 0
(c) 2x - y - 11 = 0
(d) 5x - 2y + 3 = 0

Q64. The ratio of the number of men and women in a factory is 14 : 19. If the total number of employees in the factory is 2145, then the number of women in the factory is:

(a) 1367
(b) 1645
(c) 1235
(d) 1976

Q65. The following bar graph shows the sales (in thousands) of motorbikes by the factories, F1, F2, F3, and F4 in 2017, 2018 and 2019.



What is the ratio of the total of F1 to that F4 across all years?

(a) 11 : 10
(b) 10 : 9
(c) 3 : 7
(d) 9 : 11

Q66. A circle is drawn circumscribing a rectangle of sides 24 cm and 7 cm. Find the area of the circle. (Take π = 3.14)

(a) 490.625 cm²
(b) 397.982 cm²
(c) 478.967 cm²

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(d) 420.545 cm²

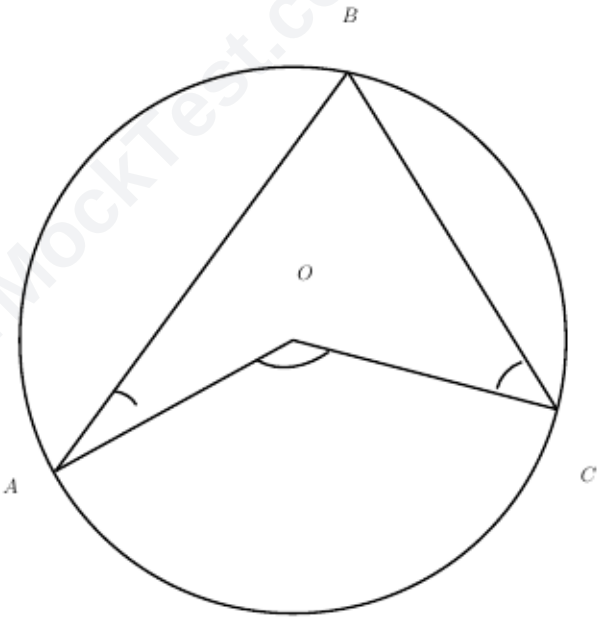
Q67. How much time (in minutes) will a dog take to run around a square field of side 75 m if it runs at the rate of 6 km/hr?

(a) 1.8
(b) 3.6
(c) 2.5
(d) 3

Q68. The value of 13/4 - [31/8 ÷ {6 - (23/4 - 11/12)}] is:

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

Q69. In the given figure, O is the centre of the circle. If angle BAO = 30° and angle BCO = 50°, then angle AOC is equal to:



(a) 60°
(b) 80°
(c) 40°
(d) 160°

Q70. Amir and akbar can finish a task in 30 days and 15 days respectively. Akbar worked on the task for 8 days and left the job. In how many days can Amir alone finish the remaining work ?

(a) 17 days
(b) 16 days
(c) 14 days
(d) 15 days

Q71. What should be the value of N to make 396258N divisible by 8 ?

(a) 2
(b) 8
(c) 4
(d) 6

Q72. If cos A = 2 Sin A, then cosec A is equal to:

(a) √5
(b) 2
(c) 1/√5

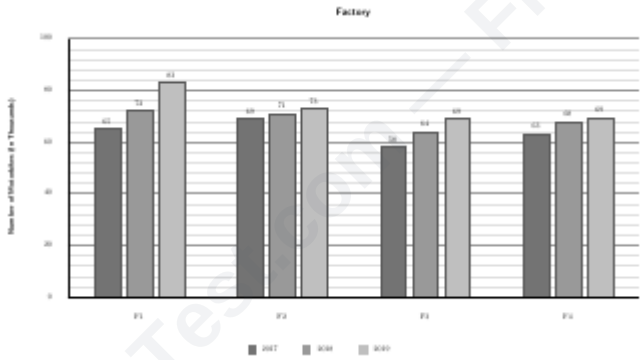
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(d) 1/2

Q73. 68 is 25% of which of the following numbers ?

(a) 136
(b) 285
(c) 204
(d) 272

Q74. The following bar graph shows the sales (in thousands) of motor bikes by the factories, F1, F2, F3, and F4 in 2017, 2018 and 2019.



Which of the factories witnessed the highest increase in the percentage of sales from 2018 to 2019 ?

(a) F3
(b) F2
(c) F4
(d) F1

Q75. The ratio of present ages (in years) of a father and son is 15 : 8. Six years ago, the ratio of their ages was 13 : 6 What is the father's present age ?

(a) 78 years
(b) 45 years
(c) 58 years
(d) 65 years

GENERAL AWARENESS

Q76. Which of the following is NOT a portable device?

(a) iPods
(b) Thumb drives
(c) Desktop computers
(d) Laptops

Q77. The concepts of wages, rent, interest and profit are studied under which branch of economics?

(a) Microeconomics
(b) Macroeconomics
(c) Econometrics
(d) Health economics

Q78. Which award is given to the best coach in sports and games?

(a) Dhyan Chand award
(b) Arjuna award
(c) Dronacharya award
(d) Major Dhyan Chand Khel Ratna Award

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Q79. Which of the following places in India would you visit to see Mughal emperor Humayun's library?

(a) New Delhi
(b) Aligarh
(c) Aurangabad
(d) Agra

Q80. Organic compounds are compounds of the element _____.

(a) Silicon
(b) Nitrogen
(c) Carbon
(d) Lead

Q81. During the rule of Tipu Sultan, which was the capital city of his state Mysore?

(a) Madurai
(b) Bangalore
(c) Bidar
(d) Srirangapatnam

Q82. Who gave the slogans ‘Dilli Chalo’ and ‘Give me blood and I will give you Freedom’?

(a) Mohandas Karamchand Gandhi
(b) Jawaharlal Nehru
(c) Subhash Chandra Bose
(d) Sardar Vallabh Bhai Patel

Q83. Which of the following Indian classical dancers has been INCORRECTLY matched with her dance form?

(a) Madhavi Mudgal – Orissi
(b) Saswati Sen – Bharatanatyam
(c) Nandini Singh – Kathak
(d) Radha Reddy – Kuchipudi

Q84. Who among the following was given the ‘Rajiv Gandhi Khel Ratna’ award and which game did she/he excel in?

(a) Sania Mirza – Table Tennis
(b) Ranjan Sodhi – Weightlifting
(c) Yogeshwar Dutt – Boxing
(d) Gagan Narang – Shooting

Q85. Select the correctly matched pair of name of the company and its founder.

(a) Reliance – Mukesh Ambani
(b) ITC – GD Birla
(c) Wipro – Mohammed Hashim Premji
(d) Infosys – Azim Premji

Q86. Which country is called the ‘Coffee Bowl of the World’?

(a) Brazil
(b) Mexico
(c) India
(d) Serbia

Q87. To which continent of the world do India, China and Japan belong?

(a) Africa
(b) Antarctica
(c) Asia
(d) Europe

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Q88. When are neap tides produced?

(a) When the sun lowers the gravitational pull of the moon.
(b) When the sun and moon are at right angle to the earth.
(c) When the sun partially contracts pull of the earth.
(d) When the earth and moon are in a straight line.

Q89. Which Indian English author was given the 'Jnanpith Award 2018'?

(a) Amitav Ghosh
(b) Arundhati Roy
(c) Nirad Choudhury
(d) Jhumpa Lahiri

Q90. Vinesh Phogat is an ace Indian _____.

(a) Boxer
(b) Sprinter
(c) Wrestler
(d) Sumo Wrestler

Q91. The Char-Dham Highway Project will connect four holy places: Yamnotri, Gangotri, Kedarnath and Badrinath. To which Indian state do these places belong?

(a) Jharkhand
(b) Uttar Pradesh
(c) Uttarakhand
(d) Madhya Pradesh

Q92. Which of the following is an input device of a computer?

(a) Scanner
(b) Printer
(c) Speaker
(d) Monitor

Q93. Novak Djokovic defeated Rafael Nadal to help his country pick up the 'ATP Cup'. Which game do these players excel in?

(a) Lawn tennis
(b) Badminton
(c) Table tennis
(d) Squash

Q94. What is the name of the first research station in Antarctica built by the Government of India?

(a) Vaishali
(b) Bharati
(c) Maitri
(d) Dakshin Gangotri

Q95. Which of the following organs are NOT parts of the Alimentary canal?

(a) Colon and rectum
(b) Stomach and intestine
(c) Liver and pancreas
(d) Buccal cavity and Oesophagus

Q96. At which of the following hill stations can tourists visiting in winter experience living in igloos?

(a) Nainital
(b) Shimla
(c) Manali
(d) Kashmir

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Q97. Which of the following abbreviations related to categories of Indian Civil Services is INCORRECT?

(a) ICS
(b) IPS
(c) IFS
(d) IAS

Q98. Which scientist/s proposed the theory of relativity?

(a) Watson and Crick
(b) Albert Einstein
(c) Charles Darwin
(d) John Dalton

Q99. Who was the first president of Independent India?

(a) Ram Nath Kovind
(b) Sarvapalli Radhakrishnan
(c) Pranab Mukherjee
(d) Rajendra Prasad

Q100. Jeff Bezos is the CEO of: (Dec 2020)

(a) Amazon
(b) Myntra
(c) Flipkart
(d) Snapdeal

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) his subscription yet

The correct answer is 'his subscription yet'.

Key Points

• The erroneous part 'his subscription yet' should be 'their subscription yet'.
• We know that 'his' is used when the noun it is referring to is singular.
• In the given question, 'some members' is plural. Therefore, a plural form of the possessive pronoun, 'their' should be used.
• Here, 'his' will be changed into 'their'.
• Therefore, the correct answer is Option 4.

Correct Answer: There are some members who haven't paid their subscription yet.

Additional Information

• Some verbs are proceeded by reflexive Pronoun:

• Average, Revenge, Present, Absent, Pride, Available, Acquit, Reconcile, Apply, etc.

• Example: The IAF's Canberra bomber squadrons too acquitted themselves better than their PAF counterparts with their daring strikes deep inside Pakistani territory.

• If we use an intransitive verb in a sentence then there is no need for a Direct object/ Reflexive Pronoun/ Verbs which we usually do for ourselves. Such kinds of 'Verbs' are:

• Complain, Shave, Shower, Keep, Stop, Behave, Pit, Remember, Down, etc.

• Example: Justin always shaves on Sunday.

Q2. Answer: (d) CABD

The correct answer is 'CABD'.

Key Points

• The given sentence is an example of Sentence Jumble.

• The first statement of a sentence jumbled question is usually an independent general statement, a noun, a universal fact, the starting of an incident, or it starts with 'most' or 'once'.

• In the given sentence, Part C will be the first sentence because it is an independent general statement. We know that it is one of the most common drinks in Asia.

• Part A will be the next sentence because it tells us the process of making tea.

• The next sentence will be Part B because Part A and Part B are connected. Part B further tells about tea making.

• Lastly, Part D will be used.

• Therefore, the correct answer is Option 4.

Q3. Answer: (b) Despised

The correct answer is 'Despised'.

Key Points

• The most appropriate antonym of the given word 'Revered' is 'Despised'.

• Let's look at the meanings and examples of the given words:

• | Revered | to very much respect and admire someone or something | Nelson Mandela is revered for his brave fight against apartheid. |

Despised	**to feel a strong dislike for someone or something because you think that that person or thing is bad or has no value**	**He despised himself for being such a coward.**
Cherished	bringing the pleasure of love or caring about someone or something that is important to you	Her most cherished possession is a 1926 letter from F. Scott Fitzgerald.
Valued	useful and important	Her work was highly valued well beyond the academic community.
Esteemed	highly respected	It is my honour to introduce our esteemed senator.

• Therefore, by reading the above explanation we find that the correct answer is Option 2.

Q4. Answer: (b) DBAC

The correct answer is 'DBAC'.

Key Points

• The given sentence is an example of Sentence Jumble.

• The first statement of a sentence jumbled question is usually an independent general statement, a noun, a universal fact, the starting of an incident, or it starts with 'most' or 'once'.

• Part D will be the first sentence because it is the starting of an incident. In the given sentence, it shows a rare celestial phenomenon that appeared in Mongolia.

• Part B will be the next sentence because it tells us there were three suns in the sky.

• The next sentence will be Part A because it explains how the sky looked.

• Lastly, Part C will be used because it tells us the real reason behind that celestial phenomenon.

• Therefore, the correct answer is Option 2.

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Correct Answer: A rare celestial phenomenon appeared in Mongolia. It looked like there were three suns in the sky. The middle sun was the one we usually see every day, but the ones on either side were the sun’s smaller reflections. A local meteorological centre explained that reflection is caused by sunshine high in the sky and light passing through snow crystals in the air.

Q5. Answer: (b) of

The correct answer is 'of'.

Key Points

• The most appropriate preposition for the given fill in the blank is 'of'.

• We use the 'preposition' "of" to show possession, belonging, or origin.

• Example: Those seats are reserved for senior members of the club.

• Therefore, the correct answer is Option 2.

Complete part: "It is part of the Gharial Conservation association..."

Additional Information

• The other usage of the 'of' preposition:

• "of" preposition (CONTAINING):

• Example: a book of short stories, a bottle of beer, a bag of sweets, etc.

• "of" preposition (POSITION): used in expressions showing the position

• Example: I've never been north of Philadelphia.

• "of" preposition (TYPICAL): typical or characteristic of

• Example: That guy's got the personality of a dead fish!

Q6. Answer: (c) are

The correct answer is 'are'.

Key Points

• In the given question, the most appropriate helping verb is 'are'.

• The given passage is in the present tense.

• And 'gharials' is plural. Therefore, a plural helping verb should be used.

• Here, 'are' should be used.

• Therefore, the correct answer is Option 3.

Complete part: "Gharial Conservation association where captive-bred gharials are released..."

Q7. Answer: (c) It

The correct answer is 'It'.

Key Points

• The most appropriate word to fill in the blank is 'It'.

• We use 'It' as the subject of a verb, or the object of a verb or preposition, to refer to a thing, animal, situation, or idea that has already been mentioned.

• Example: The company was losing money and it had to let people go.

• Here, in the given question, 'It' is referring to The Ken Gharial Sanctuary.

• Therefore, the correct answer is Option 3.

Complete part: "It is located at the Ken River, north of Panna National Park."

Q8. Answer: (b) see

The correct answer is 'see'.

Key Points

• The most appropriate word for the given fill in the blank is 'see'.

• “See” means to notice or become aware of someone or something by using your eyes.

• We tend to go for Option 3 but it would be wrong because we know that “Look” means to direct your eyes in a particular direction.

• In the given fill in the blank, 'See' is grammatically correct.

• Therefore, the correct answer is Option 2.

Complete part: "Here you can also see the majestic Raneh Falls on the Ken River."

Additional Information

• One other difference between the words “watch” and “look” is that “look” is often followed by an adverb or preposition.

• Example:

• When you dance, don't look down.

• She looked at the bill before she paid it.

• The use of 'see': You do not need to use a preposition or an adverb with the verb “see.” Sentences with “see” may have an object, or they may not.

• Example:

• With an object - I see a cat in the window.

• Without an object - It will rain today just wait and see.

Q9. Answer: (a) closed

The correct answer is 'closed'.

Key Points

• In the given fill in the blank, 'closed' should be used.

• We know that 'closed' means sealed, made inaccessible or impassable, not opened to the public.

• Whereas, 'locked' is of a door, etc, that has been locked (with a key).

• Therefore, the correct answer is Option 1.

Complete part: The Sanctuary is closed for visitors during monsoon season.

Additional Information

• The meaning of other words given in the options as follows:

• Finished: completed, final, or completely used

• Example: The rebels' ammunition is almost finished and it is only a matter of time before they surrender.

• Banned: to forbid something, especially officially

• Example: The film was banned in several countries.

Q10. Answer: (c) Mother told Avika to finish those sums before she went to the park.

The correct answer is 'Mother told Avika to finish those sums before she went to the park.'.

Key Points

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

• The process of transformation is as follows:

• 'Said to' will be changed into 'told' because the reporting verb has an object.

• The given sentence is an example of an imperative sentence.

• Transformation of Imperative Sentence.

• 'Orders', 'Command', 'Request', 'Advice' are given in these kinds of sentences.

• Reporting Verb is changed into 'ordered, advised, requested, commanded, beg, forbade, suggested, proposed, assured, asked, reminded, warned, agreed, refused, promised', etc.

• Inverted Commas will be removed. And conjunction 'to/not to' will be used.

• Example:

• He said, "Mohan, please bring me my towel." (Direct Speech)

• He requested Mohan to bring him his towel. (Indirect Speech)

• 'To' will be used as a conjunction.

• 'These' will be changed into 'those'.

• 'You' will be changed into 'she'. We know that the second person pronoun is changed according to the object of the reporting verb.

• 'Go' will be changed into 'went'.

• Therefore, the correct answer is Option 3.

Indirect speech: Mother told Avika to finish those sums before she went to the park.

Q11. Answer: (c) Dismal

The solution is in Hindi. Read it online.

Q12. Answer: (a) were closed

The correct answer is ''were closed''.

Key Points

• The given sentence is grammatically incorrect.

• In the given sentence, 'last Saturday' is an adverb of simple past tense. Therefore, we tend to use the second form of the verb that is 'closed'.

• But the given sentence is in the passive voice. Therefore, 'was/were+V3' should be used because of the use of the time adverb - Saturday.

• The subject of the given sentence is plural. Hence, a plural helping verb should be used.

• Therefore, the correct answer is Option 1.

Correct sentence: All the shops and restaurants were closed during the bandh last Saturday.

Additional Information

• The following phrases are followed by past indefinite/simple tense:

• It's high time, It's Time, It's about time, etc.

• Example: It's high time I started preparing for the exam in Hindi Literature.

Q13. Answer: (b) Change the subject immediately

The solution is in Hindi. Read it online.

Q14. Answer: (a) Cockpit

The correct answer is 'Cockpit'.

Key Points

• The most appropriate one-word for the given group of words is 'Cockpit'.

• Let's look at the meaning and examples of the given options:

• | Cockpit | A cockpit or flight deck is the area, usually near the front of an aircraft or spacecraft, from which a pilot controls the aircraft. | He climbed into the cockpit of the fighter. |

Fuselage	**the main body of an aircraft**	**A close inspection revealed minute cracks in the aircraft's fuselage and wings.**
Chassis	the frame of a vehicle, usually including the wheels and engine, onto which the metal covering is fixed	The car's lightweight chassis is made from aluminium sheets.
Canopy	a cover fixed over a seat or bed, etc. for shelter or decoration	The narrow black highway ribboned smoothly down a hill under a canopy of trees.

• By reading the above explanation we find that the correct answer is Option 1.

Q15. Answer: (b) have walked

The correct answer is 'have walked'.

Key Points

• The erroneous part 'have walked' should be 'has walked'.

• We know that 'each, every, everyone. someone, somebody, nobody, none, one, any, many a, more than one' are singular in meaning.

• Therefore, a singular helping verb/ singular pronoun should be used after them.

• Example: Each student has come.

• Hence, in the given sentence, 'has' should be used.

• Therefore, the correct answer is Option 2.

Correct sentence: Someone has walked away with my umbrella.

Additional Information

• When two subjects are connected with 'as well as, with, along with, together with, in addition to, except, rather than, accompanied by, nothing but, etc.', then the helping verb should be used according to the first subject of the sentence.
• Example:
• The Captain along with the sailors were drowned.
• The Captain along with the sailors was drowned.

Q16. Answer: (b) heaved

The correct answer is 'heaved'.
Key Points
• The most appropriate word for the given fill in the blank is 'heaved'.
• In the given blank, 'heave a sigh of relief' is a phrase. Its meaning as follows:
• Heave a sigh of relief: to suddenly feel very happy because something unpleasant has not happened or has ended
• Example: We both heaved a sigh of relief when she left.
• Therefore, by reading the above explanation we find that the correct answer is Option 2.

Complete sentence: When he came back home safe that night, everybody heaved a sigh of relief.
Additional Information
• Let's look at the meaning and examples of the other words given in the option:
• | Raised | to lift something to a higher position | He raised the window and leaned out. |

Inhaled	**to breathe air, smoke, or gas into your lungs**	**She flung open the window and inhaled deeply.**
Exhaled	to send air out of your lungs	Take a deep breath in then exhale into the mouthpiece.

Q17. Answer: (c) Sumptuous

The correct answer is 'Sumptuous'.
Key Points
• The most appropriate synonym of the given word 'Opulent' is 'Sumptuous'.
• Let's look at the meaning and examples of the given options:
• | Opulent | expensive and luxurious | He lived an opulent lifestyle that included sports cars and enormous homes. |

Sumptuous	**impressive in a way that seems expensive**	**The celebrity guests turned up dressed in sumptuous evening gowns.**
Economical	not using a lot of fuel, money, etc.	There's an increasing demand for cars that are more economical on fuel.
Poor	having little money and/or few possessions	He came from a poor immigrant family.
Depressed	unhappy and without hope	He seemed a bit depressed about his work situation.

• Therefore, by reading the above definitions, we find that the correct answer is Option 3.

Q18. Answer: (d) Orchard

The correct answer is 'Orchard'.
Key Points
• The most appropriate one-word for the given set of words is 'Orchard'.
• Let's look at the meaning and examples of the given words:
• | Grove | a group of trees planted close together | More seeds were removed under solitary palms than from groves. |

Nursery	**a place where young children and babies are taken care of while their parents are at work**	**Does Jake go to a nursery or a childminder?**
Vineyard	a piece of land on which vines are grown	She declared a piece of a vineyard with olive trees, which was valued at 6 florins.

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Orchard	an area of land where fruit trees (but not orange trees or other citrus trees) are grown	Wholesalers were then questioned about the orchards from which they had obtained their product.

• Therefore, by reading the above explanation, we find that the correct answer is Option 4.

Q19. Answer: (b) Growth

The solution is in Hindi. Read it online.

Q20. Answer: (a) Irradicate

The correct answer is 'Irradicate'.

Key Points

• In the given options 'Irradicate' is incorrectly spelt. The correct spelling of it is 'eradicate'.

• Let's look at the meaning and examples of the given options:

• | Eradicate | to get rid of something completely or destroy something bad | The government claims to be doing all it can to eradicate corruption. |

Irreverent	**not showing the expected respect for official, important, or holy things**	**The television program takes an irreverent look at the medical profession.**
Irrational	not using reason or clear thinking	His parents were worried about his increasingly irrational behaviour.
Irregular	(of behaviour or actions) not according to usual rules or what is expected	Releasing the goods without an invoice is most irregular.

• By reading the above explanation, we find that the correct answer is Option 1.

Q21. Answer: (a) For reaching the station, an auto was hired by them.

The correct answer is 'For reaching the station, an auto was hired by them.'

Key Points

• The given sentence is in Active Voice. As per the given question we have to change it into Passive Voice.

• The process of transformation as follows:

• There will be no change in 'For reaching the station'.

• The subject of the given sentence is 'they'. And the objective form of 'they' will be used that is 'them'.

• The object of the given sentence is 'an auto'.

• The subject will be put in place of the object. And the object will be put in place of the subject.

• 'Hired' will be changed into 'was hired'.

• Therefore, the correct answer is Option 1.

Correct Passive form: For reaching the station, an auto was hired by them.

Additional Information

• Transformation of Infinitives:

• Subject + is/am/are/was/were/has/have/had + to + V1 + Object. (Active Voice)

• Subject (objective case) + is/am/are/was/were/has/have/had + to + be + V3 + by + object (Subjective case). (Passive Voice)

• Example:

• The teacher is to solve the doubt of every student.

• The doubt of every student is to be solved by the teacher.

Q22. Answer: (c) To relax

The solution is in Hindi. Read it online.

Q23. Answer: (d) Deliceous

The correct answer is 'Deliceous'.

Key Points

• In the given option 'deliceous' is incorrectly spelt. Its correct spelling is 'Delicious'.

• Let's look at the meaning and examples of the given options:

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• | Obvious | easy to see, recognize, or understand | They have a small child so for obvious reasons they need money. |

Courageous	**having or showing courage**	**It was a courageous decision to resign in protest at the company's pollution record.**
Vicious	Vicious people or actions show an intention or wish to hurt someone or something very badly	The police said that this was one of the most vicious attacks they'd ever seen.
Delicious	'having a very pleasant taste or smell'	The delicious smell of freshly made coffee came from the kitchen.

• By reading the above definition, we find that the correct answer is Option 4.

Q24. Answer: (d) doesn't she

The correct answer is 'doesn't she'.

Key Points

• The given sentence is grammatically incorrect.

• A positive statement is followed by a negative question tag.

• Example: Mary can speak English, can't she?

• A negative statement is followed by a positive question tag.

• Example: They aren't funny, are they?

• In the given sentence, the negative tag of 'does' should be used.

• Therefore, the correct answer is Option 4.

Correct sentence: Avika understands French, doesn't she?

Additional Information

• If the sentences start with "Let's" (Let us) then "shall we?" should be used as a question tag.

• Example: Let's walk, shall we?

Q25. Answer: (c) pronounced

The correct answer is 'pronounced'.

Key Points

• The most appropriate word for the given fill in the blank is 'pronounced'.

• Let's look at the meaning and examples of the given options:

• | Widespread | existing or happening in many places and/or among many people | There are reports of widespread flooding in northern France. |

Vague	**not clearly expressed, known, described, or decided**	**The patient had complained of vague pains and backache.**
Pronounced	very noticeable or certain/ easily noticeable; obvious	She's a woman of very pronounced views which she is not afraid to air.
Remarkable	unusual or special and therefore surprising and worth mentioning	Nelson Mandela was a truly remarkable man.

• By reading the above definitions, we find that the correct answer is 'pronounced'.

• Therefore, the correct answer is Option 3.

Complete sentence: Our professor speaks English with a pronounced Oriya accent.

Q26. Answer: (d) ROLIF

According to the alphabetical positions of the letters,

The pattern followed here is:

1) TPMKJ → T – 4 = P; P – 3 = M; M – 2 = K; K – 1 = J

2) WSPNM → W – 4 = S; S – 3 = P; P – 2 = N; N – 1 = M

3) UQNLK → U – 4 = Q; Q – 3 = N; N – 2 = L; L – 1 = K

4) ROLIF → R – 3 = O; O – 3 = L; L – 3 = I; I – 3 = F

Hence, ‘ROLIF’ is the correct answer.

Q27. Answer: (d) 122

The logic is:

$1^2 + 1 = 2$

$3^2 + 1 = 10$

$5^2 + 1 = 26$

$7^2 + 1 = 50$

$9^2 + 1 = 82$

$11^2 + 1 = 122$

We can also solve this series in another way,

Logic: Add consecutive multiple of 8 to get the series.

The pattern followed here is:

Hence, ‘122’ is the correct answer.

Q28. Answer: (a) [figure]

The correct mirror image of the given figure when the mirror is placed to the right side of the figure is shown below:

Hence, ‘option 1’ is the correct answer.

Q29. Answer: (b) 22

There is one teacher for every 42 students.

So, there are total 43 members in each group of teachers and students among 946 teacher and students in the school.

So, number of teachers in the school = 946 ÷ 43

= 22

Hence, ‘22’ is the correct answer.

Q30. Answer: (d) (9, 12, 63)

The logic is:

(5, 8, 39) → $8^2 – 5^2 = 64 – 25 = 39$

Similarly,

4) (9, 12, 63) → $12^2 – 9^2 = 144 – 81 = 63$

Hence, ‘(9, 12, 63)’ is the correct answer.

Q31. Answer: (a) [figure]

The paper when unfolded will appear as shown below:

Hence, ‘option 1’ is the correct answer.

Q32. Answer: (b) 4 - 3 - 2 - 1 - 5

The logical and meaningful order of the following words is shown below:

4. Earthen lamp

3. Lantern

2. Bulb

1. CFL bulb

5. LED bulb

The given words are arranged in the order they were invented.

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

Q33. Answer: (b) 48 years

Ram + Shyam + Adil = 60 years

Four years ago each of them was 4 years younger.

So, total of their ages four years ago = [60 – (3 × 4)] years

= 60 – 12

= 48 years

Hence, ’48 years’ is the correct answer.

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Q34. Answer: (c) 4

As 1 is the common face on both the dice, keeping it constant and then rotating in clockwise direction, we get the faces opposite to each other.

1	5	3
1	2	4

So, the face opposite to the face having number '3' is '4'.

Hence, '4' is the correct answer.

Q35. Answer: (d) Only conclusion II follows.

The least possible venn diagram is:

I. Only some bowls are cups. → False (It is definite)

II. No bowl is a cup. → True (as, all bowls are plates and no plate is a cup)

Hence, only conclusion II follows.

Q36. Answer: (d) XVRORMT

According to the alphabetical positions of the letters,

The pattern followed here is:

Logic : Letters are coded by their reverse letter.

The pattern followed here is:

R	A	M	P
I	Z	N	K

Similarly,

C	E	I	L	I	N	G
X	V	R	O	R	M	T

Hence, 'XVRORMT' is the correct answer.

Q37. Answer: (c) [figure]

The option in which the given figure is embedded when rotation is not allowed is shown below:

Hence, 'option 3' is the correct answer.

Q38. Answer: (b) 12

A cube of 3" × 3" × 3" inch size was painted on all six sides and then cut into 27 smaller cubes of 1 inch size.

The center cube will be faced on only one side.

The four cubes on four sides of this center cube will be painted on two sides.

So, smaller cubes with only two sides painted = 4 × 3

= 12

Hence, '12' is the correct answer.

Q39. Answer: (c) [figure]

The pattern followed here is:

1) The middle figure become the first figure, the last figure become the middle figure and the first figure become the last figure.

2) Shaded part of the last figure shifted to first figure and shaded part of the first figure is shifted to middle figure.

So, the 2^(nd) figure of the series will come next in the series as shown below:

Hence, 'option 3' is the correct answer.

Q40. Answer: (c) 182 : 14

The logic is:

132 : 12 → (12 – 1) × 12 : 12

Similarly,

182 : 14 → (14 – 1) × 14 : 14

Hence, '182 : 14' is the correct answer.

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Q41. Answer: (b) 56

According to the alphabetical positions of the letters,

The pattern followed here is:

Similarly,

Hence, ‘56’ is the correct answer.

Q42. Answer: (c) [figure]

The correct mirror image of the given figure when the mirror is placed to the right side of the figure is shown below:

Hence, ‘option 3’ is the correct answer.

Q43. Answer: (c) Liver

The logic is:

'Anemia' is related to 'Blood' → Anemia is a condition in which a person lacks healthy red blood cells.

Similarly,

'Hepatitis' is related to 'Liver' → Hepatitis refers to the inflammatory condition of the liver.

Hence, ‘Liver’ is the correct answer.

Q44. Answer: (d) Only conclusion II and III follow.

The least possible venn diagram is:

I. Some cars are buses. → False (It can be possible but it is not definite)

II. Some mangoes are cars. → True (All cars are mangoes)

III. Some mangoes are apples. → True (as, all buses are mangoes and some apples are buses)

Hence, only conclusion II and III follow.

Q45. Answer: (c) RAGNTNE

According to the alphabetical positions of the letters,

The pattern followed here is:

Similarly,

Hence, ‘RAGNTNE’ is the correct answer.

Q46. Answer: (a) TABLE

The pattern followed here is:

STRAIN : TRAIN → ‘S’ when removed from the first term, becomes the 2^(nd) term.

Similarly,

STABLE : ? → S when removed from STABLE becomes TABLE.

Hence, ‘TABLE’ is the correct answer.

Q47. Answer: (d) 4, 3

1) 8, 4

Given expression: 8× 4/3 + 9 – 5 = 10

After replacing the numbers, we get:

L.H.S = 4 ×

• 9 – 5

= 10.66 + 9 – 5

= 19.66 – 5

= 14.66 ≠ R.H.S

2) 9, 3

Given expression: 8× 4/3 + 9 – 5 = 10

After replacing the numbers, we get:

L.H.S = 8× 8/3 + 3 – 5

= 3.55 + 3 – 5

= 6.55 – 5

= 1.55 ≠ R.H.S

3) 5, 3

Given expression: 8× 4/3 + 9 – 5 = 10
After replacing the numbers, we get:
L.H.S = 8×
• 9 – 3
= 6.4 + 9 – 3
= 15.4 – 3
= 12.4 ≠ R.H.S
4) 4, 3
Given expression: 8× 4/3 + 9 – 5 = 10
After replacing the numbers, we get:
L.H.S = 8×
• 9 – 5
= 6 + 9 – 5
= 15 – 5
= 10 = R.H.S
Hence, '4, 3' is the correct answer.

Q48. Answer: (b) HJL

According to the alphabetical positions of the letters,
The pattern followed here is:
Hence, 'HJL' is the correct answer.

Q49. Answer: (c) 8 and 12

1) 12 and 48
Given expression: 12 × 2 + 8 - 48 ÷ 6 = 20
After replacing the numbers we get:
L.H.S = 48 × 2 + 8 - 12 ÷ 6
= 96 + 8 – 2
= 104 – 2
= 102 ≠ R.HS
2) 6 and 8
Given expression: 12 × 2 + 8 - 48 ÷ 6 = 20
After replacing the numbers we get:
L.H.S = 12 × 2 + 6 - 48 ÷ 8
= 24 + 6 – 6
= 30 – 6
= 24 ≠ R.HS
3) 8 and 12
Given expression: 12 × 2 + 8 - 48 ÷ 6 = 20
After replacing the numbers we get:
L.H.S = 8 × 2 + 12 - 48 ÷ 6
= 16 + 12 – 8
= 28 – 8
= 20 = R.H.S
4) 2 and 6
Given expression: 12 × 2 + 8 - 48 ÷ 6 = 20
After replacing the numbers we get:
L.H.S = 12 × 6 + 8 - 48 ÷ 2
= 72 + 8 – 24
= 80 – 24
= 56 ≠ R.HS
Hence, '8 and 12' is the correct answer.

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Q50. Answer: (a) NZMTL

In a certain language, a letter is coded by the letter at the same position but from the end of the English alphabet.

It simply means that the letters are coded by their reverse letter.

So, MANNGO will be written as:

M	A	N	G	O
N	Z	M	T	L

Hence, 'NZMTL' is the correct answer.

Q51. Answer: (b) 22.795%

Given:

A shopkeeper sells an item that is marked as Rs. 3685 for Rs. 2845

Formula used:

%discount = [(Mark price – Selling price)/Mark price] × 100

Calculation:

Mark Price (M.P.) = 3685

Selling price (S.P.) = 2845

%discount = [(M.P. –S.P.)/M.P.] × 100

=> [(3685 – 2845)/3685] × 100

=> (840/3685) × 100

=> 840 × 20/737 = 22.795%

Therefore The discount offer is 22.795%.

Q52. Answer: (d) 3/4

Given:

SecA = 5/3

Formula used:

$Sec^2A – Tan^2A = 1$,

CotA = 1/TanA

Calculation:

=> $Sec^2A – Tan^2A = 1$

=> $Tan^2A = Sec^2A – 1$

=> $Tan^2A = (5/3)^2 – 1$

=> $Tan^2A = (25 – 9)/9$

=> $Tan^2A = 16/9$

=> TanA = 4/3

=> CotA = 1/TanA

=> CotA = 1/(4/3)

=> CotA = 3/4

Alternate Method

SecA = 5/3

SecA = hypotenius / base

SecA = AC/BC

In triangle ABC angle B = 90^0

Using pythagorus theorem

=> $(AC)^2 = (AB)^2 + (BC)^2$

=> $(5)^2 = (3)^2 + (AB)^2$

=> $(AB)^2 = 25 – 9$

=> $(AB)^2 = 16$

=> AB = √ 16

=> AB = 4

Then, TanA = Perpendicular/Base

=> TanA = AB/BC

=> TanA = 4/3

Q53. Answer: (b) F1

Given:

The sales (in thousands) of motor bikes by the factories F1, F2, F3, and F4 in 2017, 2018 and 2019

Calculation:

Sales of motor bike by Factory is the Sum of the number of 2017, 2018 and 2019 sales

Sum = Number of motor bike in 2017 + Number of motor bike in 2018 + Number of motor bike 2019

=> F1 is sales across all year = 65 + 72 + 83 = 220

=> F2 is sales across all year = 69 +71 +73 = 213

=> F3 is sales across all year = 58 +64 + 69 = 191

=> F4 is sales across all year = 63 + 68 + 69 = 200

Therefor, Highest sales across all years (2017, 2018 & 2019) is F1

Q54. Answer: (c) right angled triangle

Given:

Ratio of angles = 1 : 2 : 3

Calculation:

Let angle be x, 2x and 3x respected

Now,

=> x + 2x + 3x = 180°

=> 6x = 180°

=> x = 30°

The angles are

=> x = 30°

=> 2x = 60°

=> 3x = 90°

Since one angle is 90° therefore it is right angled triangle.

Q55. Answer: (c) 148

Given:

A library has an average of 265 visitors on Sundays and 130 visitors on other days.

Formula used:

Average = (M1 × N1 + M2 × N2)/(M1 + M2)

Calculation:

Since the month begins with a Monday, so there will be four Sundays in the month.

M1 = Number of Sunday

M1 = 4

M2 = Remaining days

M2 = 26

N1 = Average visitors on Sundays

N1 = 265

N2 = Average visitors on remaining days

N2 = 130

Required average,

=> (265 x 4 + 130 x 26)/30

=> 4440/30

=> 148

Therefore The average number of visitors per day 148

Q56. Answer: (a) 12 cm

Given:

AC= 15 cm and DE = 3 cm

calculation:

AB and AC are the tangents to the circle from point A

Therefore AB = AC

EF is tangent to the circle at point D and intersecting AC and AB

Therefore ED = EB = 3 cm

AE = AB - EB

AE = 15 - 3

AE = 12 cm

Q57. Answer: (b) F3

calculation:

according to the question

total sales of motorbikes by the factory F1 in 2017, 2018, and 2019.

=> 65 + 72 + 83

=> 220

total sales of motorbikes by the factory F2 in 2017, 2018, and 2019.

=> 69 + 71 + 73

=> 213

total sales of motorbikes by the factory F3 in 2017, 2018, and 2019.

=> 58 + 64 + 69

=> 191

total sales of motorbikes by the factory F4 in 2017, 2018, and 2019

=> 63 + 68 + 69

=> 200

hence factory F3 has least no. of sales

Q58. Answer: (d) 1

Given:

expression is $\sin^4\theta + \cos^4\theta + 2\sin^2\theta\cos2\theta$

formula used:

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

Calculation:

$\sin^{\wedge}4\theta + \cos^{\wedge}4\theta + 2\sin^2\theta\cos^2\theta$

$\Rightarrow (\sin^2\theta)^2 + (\cos^2\theta)^2 + 2\sin^2\theta\cos^2\theta$

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

$\Rightarrow (\sin^2\theta + \cos^2\theta)^2$

Because $\sin^2\theta + \cos^2\theta = 1$

$\Rightarrow 1^2$

$\Rightarrow 1$

Therefore the value of given expression is 1

Q59. Answer: (d) 5

Given:

one side of triangle = 6 cm

second side of triangle = 10 cm

concept used:

the difference of two other sides < x < sum of two other side

calculation:

(10 - 6) < x < (10 + 6)

=> 4 < x < 16

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the third side of the triangle should lie between 4 and 16

Therefore minimum integral value is 5 and maximum integral value is 15

Hence, the answer is 5 cm

Q60. Answer: (d) 12.63%

Given:

CP = Rs. 3200

Spent on repair = Rs. 600

SP = Rs. 4280

Where CP = Cost price, SP = Selling price

Formula used:

Profit% = (SP - CP)/CP × 100

Calculation:

New CP = Rs. (3200 + 600) = Rs. 3800

Profit% = (4280 - 3800)/3800 × 100

=> 480/38 × 100

=> 12.63%

Therefore profit percentage is 12.63%

Q61. Answer: (b) 194

Given:

$x + 1/x = 4$

Formula used:

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

Calculation:

According to the formula

=> $(x + 1/x)^2 = x^2 + 1/(x^2) + 2 \times x \times 1/x$

=> $16 = x^2 + 1/(x^2) + 2$

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

squaring both sides in the equation 1

=> $(x^2 + 1/(x^2))^2 = x^4 + 1/(x^4) + 2 \times x^2 \times 1/(x^2)$

=> $16 = x^2 + 1/(x^2) + 2$

=> $x^4 + 1/(x^4) = 194$

Therefore The value of $x^4 + 1/(x^4) = 194$.

If $x + 1/x = k$

=> $x^4 + 1/(x^4) = k^2(k^2 - 4) + 2$

=> $4^2(4^2 – 4) + 2$

=> 194

Therefore The value of = 194.

Q62. Answer: (c) Rs. 29,000

Given:

Rate = 11%

Time = 3 years

Simple interest(S.I) = Rs. 9570

Formula used:

Simple interest = (P × R × T)/100

Calculation:

=> P = (S.I × 100)/(R × T)

=> P = (9570 × 100)/(11 × 3)

=> P = 29000

Therefore The principal amount borrowed by him was Rs. 29000.

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Q63. Answer: (c) 2x - y - 11 = 0

Shortcut Trick

Use the point-slope form of the straight line equation: y − y1 = m(x − x1).

Substitute (x1, y1) = (3, −5) and slope m = 2:

y − (−5) = 2(x − 3) => y + 5 = 2x − 6

Rearranging the terms: 2x − y − 6 − 5 = 0 => 2x − y − 11 = 0.

Therefore The correct answer is 2x - y - 11 = 0.

Alternate Method

Given:

Coordinates of the point (x1, y1) = (3, −5)

Slope of the line (m) = 2

Formula Used:

The equation of a line passing through a point (x1, y1) with slope m is given by: y − y1 = m(x − x1)

Calculations:

=> Substituting values in the formula:

=> y − (−5) = 2 × (x − 3)

=> y + 5 = 2x − 6

=> 2x − y − 6 − 5 = 0

=> 2x − y − 11 = 0

This matches the General Form of a linear equation Ax + By + C = 0.

Therefore The correct answer is 2x - y - 11 = 0.

Additional Information

Slope-Intercept Form

The equation of a line with slope m and y-intercept c is y = mx + c.

Two-Point Form

If a line passes through (x1, y1) and (x2, y2), the equation is (y − y1) = [(y2 − y1)/(x2 − x1)] × (x − x1).

Intercept Form

The equation of a line making intercepts a and b on the x and y axes respectively is x/a + y/b = 1.

Slope from General Equation

For a line Ax + By + C = 0, the slope m = −A/B.

Q64. Answer: (c) 1235

Given:

The ratio of the number of men and women in a factory is 14:19

The total number of employees in the factory is 2145.

Calculation:

Let the number of men be x

Let the number of women be y

According to the question,

=> x/y = 14/19

=> x = (14/19)y 1

The total number of employees

=> x + y = 2145 2

Putting the equation (1) in equation (2) then,

=> (14/19)y + y = 2145

=> 33y = 2145×19

=> y = 40755/33

=> y = 1235

Therefore The number of women in the factory is 1235.

Shortcut Trick

If the ratio of two number x,y is given, the sum of two number is given,

Then find any number x or y,

=> x = fractotal number × xx + Y or y = fractotal number × Yx + Y
=> y = (2145 × 19)/(14 + 19)
=> y = 1235
Therefore The number of women in the factory is 1235.

Q65. Answer: (a) 11 : 10

Given:
The sales (in thousands) of motorbikes by the factories, F1, F2, F3, and F4 in 2017, 2018 and 2019.
Calculation:
The total sales (in thousands) of motorbikes by the factories F1 = 65 + 72 + 83
=> 220
The total sales (in thousands) of motorbikes by the factories F4 = 63 + 68 + 69
=> 220
The ratio of the total of F1 : F4 = 220:200
=> 11 : 10
Therefore The ratio of the total of F1 to that F4 across all years is 11:10.

Q66. Answer: (a) 490.625 cm²

As shown in the above Figure:
Given:
A Circle is drawn circumscribing rectangle ABCD
The length of the Rectangle is = 24 cm
The breadth of the Rectangle = 7 cm
Formula used:
Area of a circle = πr^2 ,where π = 3.14 or 22/7
Calculation:
In a rectangle, all angles are 90°
And as By Phtygoros theorem
=> $24^2 + 7^2 = 25^2$ _____ (1)
=> but here, the Radius of the given circle = 25/2
=> Area of the Circle = $\pi \times (25/2)^2$
=> Area of the circle = $3.14 \times (625/4) = 490.625$ cm²

Q67. Answer: (d) 3

Given:
Square of side = 75 m
And a dog runs around the square with a speed of = 6 km/hr
Formula Used:
The perimeter of a square = 4 × side of the given square
Calculation:
=> Speed of the dog in m/sec = 6 × 1000/3600 = 6× 5/18 = 5/3 m/sec
=> The perimeter of the Square = 4 × 75 m = 300 m
=> Time = Distance/speed
Hence, Time is taken by the dog to travel around the square
=> Time = (300)/(5/3) = 60 × 3 seconds or (60 × 3)/60 = 3 minutes

Q68. Answer: (c) 1

Given:
13/4 - [31/8 ÷ {6 - (23/4 - 11/12)}]
Concept Used:
Follow the BODMAS rule as given in the below table:
Calculation:
The given expression is:

=> 1 + 3/4 – [(3 + 1/8)÷ {6 – (2 + 3/4 – 11/12)}]
=> 1 + 3/4 – [(3 + 1/8) ÷ {6 – (2 + (9 – 11)/12)}]
=> 1 + 3/4 – [(3 + 1/8) ÷ {6 – (2 – 2/12)}]
=> 1 + 3/4 – [(3 + 1/8) ÷ {6 – 2 +2 /12}]
=> 1 + 3/4 – [25/8 ÷ (4 + 1/6)]
=> 1 + 3/4 – [(25/ 8) ÷ (25/6)]
=> 1 + 3/4 – [25/8 × 6/25]
=> 1 + 3/4 – [6/8]
=> 1 + 3/4 – 3/4 = 1

Q69. Answer: (d) 160°

Given:
As shown in the given circle O is the center of the circle
angle BAO = 30° and angle BCO = 50° _____ (1)
Let us consider the full triangle as shown in the above figure.
Calculation:
Let us consider the Δ AOC,
Let angle OAC = angle OCA = x°
As sum of all angles of a triangle = 180°
=> angle AOC + x° + x° = 180°
=> angle AOC = 180° - 2x° _____ (2)
Now, in Δ BAC also
=> angle ABC + angle BAC + angle BCA = 180°
angle ABC + 30° + x° + 50° + x° = 180°
angle ABC + 80° + 2x° = 180°
=> angle ABC = 180° - 80° - 2x°
=> angle ABC = 100° - 2x° _____ (3)
Theorem used:
As angle made a chord on any point on a circle = (Angle made by the same chord on the centre)/2
Therefore angle ABC = (angle AOC/2)
=> 100° - 2x° = (180° - 2x°)/2
=> 100° - 2x° = 90° - x°
=> x° = 10°
Now in Δ AOC, angle AOC = 180° - 2x° (from (2))
angle AOC = 180° - 2× 10° = 160°

Q70. Answer: (c) 14 days

Given:
Let us try to do this question with the LCM method
As time taken by Amir to complete the work = 30 days
Time taken by Akbar to comlpete the same work = 15 days
Calculations:
As we can see in the given figure, total work be = 30unit
Therefore Efficiency of Amir = 30unit/ 30 days = 1unit/day _____ (1)
And Efficiency of Akbar = 30unit/15 days = 2unit/day _____ (2)
=> Work done by Akbar in 8 days = 8× 2 = 16 unit
=> Work left for Amir = 30 – 16 = 14 unit
=> Time taken byAmir to do 14 unit work = 14/1 = 14 days

Q71. Answer: (c) 4

Concept used:
Divisibility rule of 8 = Last three digits of any number should be divisible by 8
Calculation:

396258N fully divisible by 8
=> 58N/8
=> 580 + N/8
=> 584/8 = 7
=> N = 4
Therefore N is 4

Q72. Answer: (a) √5

Given:
Cos A = 2 Sin A
Formula used:
Pythagoras Theorem = $P^2 + B^2 = H^2$ [P = perpendicular, B = base, H = Hypotenuse]
Calculation:
Cos A = 2 Sin A
=> Cos A / Sin A = 2
=> Cot A = 2
As we know that Cot A = B/P
=> Cosec A = H/P
=> Cosec A = √ 5/1 = √ 5
Therefore Cosec A is √ 5

Q73. Answer: (d) 272

Let the number be x
Then,
x × 25/100 = 68
=> x = 68 × 4 [25/100 = 1/4]
Therefore The number is 272

Q74. Answer: (d) F1

F1's production in 2018 = 72
F1's production in 2019 = 83
Therefore Increment = 83 -72 = 11
% Increase = 11 × 100/72
=> 1100/72 = 15 .27 %
F2's production in 2018 = 71
F2's production in 2019 = 73
Therefore Increment = 73 -71 = 2
% Increase = 2 × 100/71
=> 200/71 = 2.8 %
F3's production in 2018 = 64
F3's production in 2019 = 69
Therefore Increment = 69 - 64 = 5
% Increase = 5 × 100/64
=> 125/16 = 7.8 %
F4's production in 2018 = 68
F4's production in 2019 = 69
Therefore Increment = 69 - 68 = 1
% Increase = 1 × 100/68
=> 100/68 = 1.47 %
Therefore Highest increase in the percentage in F1

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Q75. Answer: (b) 45 years

Given:

The ratio of present ages (in years) of a father and son is 15 : 8. Six years ago.

And the ratio of their ages was 13 : 6.

Calculation:

Let the present age of father be 15x years.

And the present age of son be 8x years.

According to the question:

(15x – 6)/(8x – 6) = 13/6

=> 90x – 36 = 104x – 78

=> - 14x = - 42

=> x = 3

Therefore The present age of father is 15x years = 15 × 3 = 45 years.

Q76. Answer: (c) Desktop computers

The correct answer is Desktop computers.

• Portable devices are any devices that can easily be carried.

• We can not carry Desktop computers anywhere, so it is not a portable device.

• iPods, Thumb drives, Laptops are portable devices as they are easy to carry.

Q77. Answer: (a) Microeconomics

The correct answer is Microeconomics.

Key Points

• Microeconomics is the study of individuals and business decisions, while macroeconomics looks at the decisions of countries and governments.

• The concepts of wages, rent, interest and profit are studied under Microeconomics.

• Microeconomics focuses on supply and demand, and other forces that determine price levels, making it a bottom-up approach.

• It studies the economics of the firm, individual, consumers, inflation.

Additional Information

• Macroeconomics is a branch of economics dealing with the performance, structure, behaviour, and decision-making of an economy as a whole.

• This includes regional, national, and global economies.

Q78. Answer: (c) Dronacharya award

The correct answer is the Dronacharya award.

Key Points

• Dronacharya award is associated with Sports.

• It is awarded annually by the Ministry of Youth Affairs and Sports.

• It is awarded to the Coaches for their achievement in producing "Outstanding Sportsperson".

• It was first awarded in 1985 to Bhalchandra Bhaskar Bhagwat.

• The reward amount for this Prize is Rs. 15 lakh.

Additional Information

• Arjun Award

• It was started in 1961 by the government of India.

• Ministry of Youth Affairs and sports awards best sportspersons.

• Those who have shown constantly good performance for 4 years at the international level will be chosen for this award.

• The Awardee will be awarded a cash prize worth Rs. 15 lakh and a bronze statue.

• Krishna Das was the first person to be awarded the Arjun Award in 1984.

• The Dhyanchand Award has been constituted by the Government of India in 2002 to honour lifetime achievement in sports and games.

• Dhyan Chand was a celebrated hockey player of India, mainly before independence.

• He won three gold medals with the Indian Team in the Olympics of 1928, 1932, and 1936.

• The Rajiv Gandhi Khel Ratna Award, which will now be referred to as the Major Dhyan Chand Khel Ratna Award, recognises

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sportspersons who have excelled at the international level over a period of four years. It carries a cash reward of Rs 25 lakh

• This award in Sports is the highest sporting honor of India.

• It is awarded by the Ministry of Youth Affairs and Sports.

• The first recipient of the award was Viswanathan Anand, who was the country's first chess Grandmaster.

Important Points

• Arjuna Award has been enhanced to 15 lakh rupees from 5 lakh. The Dhronacharya (Lifetime) awardees, who were earlier given 5 lakh rupees will now be given 15 lakh rupees as cash prizes, while Dhronacharya (Regular) will be given 10 lakh instead of 5 lakh rupees per awardee. Dhyanchand Awardees will be given 10 lakh rupees instead of 5 lakh rupees.

• The prize money for the Rajiv Gandhi Khel Ratna Award has been increased to 25 lakh rupees from the previous amount of 7.5 lakh rupees.

Q79. Answer: (a) New Delhi

The correct answer is New Delhi.

• Mughal emperor Humayun's library is located in New Delhi.

• In 1556, Humayun died after tumbling down from the stairs of his library.

Additional Information

• Important monuments by Mughal emperors.

• Akbar's monuments

Monuments	Location
Agra Fort	Agra
Fatehpur Sikri	Agra
Buland Darwaza	Agra
Humayun's Tomb	Delhi
Akbar's Tomb	Sikandra

• Jahangir's monuments

Monuments	Location
Begum Shahi Mosque	Lahore, Pakistan.
Tomb of Itmad -ud -doula	Agra

• Shahjahan's monuments

Monuments	Location
Red Fort	Delhi
Taj Mahal	Agra
Moti Masjid	Agra
Jama Masjid	Delhi

• Aurangzeb's monuments

Monuments	Location
Bibi ka Maqbara	Aurangabad
Moti Masjid	Delhi
Badshahi Mosque	Lahore

Q80. Answer: (c) Carbon

The correct answer is carbon.

Key Points

• Organic compounds are carbon-containing compounds that are present in all living organisms.

• It is the main component of all organic life forms.

• It can be seen in the DNA chain and Carbohydrates.
• Organic compounds consist of hydrogen, oxygen, carbon, and their other derivatives.
• Organic compounds are insoluble in water.
• These compounds have carbon-hydrogen bonds.
• These compounds exist in the form of Solids, gases, and liquids.

Important Points

• Silicon (Si) is a nonmetallic chemical element in the carbon family.
• It belongs to Group 14 [IVa] of the periodic table.
• The atomic number is 14.
• Lead is a soft, silvery-white or grayish metal.
• It belongs to Group 14 (IVa) of the periodic table.
• Lead is very malleable, ductile, and dense and is a poor conductor of electricity.

Q81. Answer: (d) Srirangapatnam

The correct answer is Srirangapatnam.

• Tipu Sultan built this palace in 1784 and ruled Mysore from Srirangapatnam.

Key PointsTipu Sultan was the ruler of Mysore.

• Tipu Sultan is well known as the “Tiger of Mysore”.
• He had the image of a tiger on his flag.
• He is the son of the powerful Mysore ruler Haidar Ali.
• Tipu Sultan ruled Mysore from 1782 to 1799.
• He maintained a positive relationship with the French in India and modernized his army with their help.
• The French commander-in-chief Napoleon Bonaparte sought an alliance with Tipu Sultan
• The Treaty of Srirangapatnam (1792) is associated with Tipu Sultan.
• He was killed while defending his capital Seringapatam.

Q82. Answer: (c) Subhash Chandra Bose

The correct answer is Subhash Chandra Bose.

• Dilli Chalo Slogan was given by Subhash Chandra Bose.
• He used this slogan to motivate the Indian National Army (INA) in 1944 when the INA commenced its military campaign against Burma.

Additional Information

Famous Slogan	Name
Inqilab Zindabad	Hasrat Mohani
Dilli Chalo	Subhash Chandra Bose
'Do or die' (Karo Ya Maro)	Mahatma Gandhi
Purna Swaraj	Jawahar Lal Nehru
Hindi, Hindu, Hindustan	Bharatendu Harishchandra
Back to the Vedas	Dayanand Saraswati
Aaram Haraam Hai (Cast off your laziness)	Jawahar Lal Nehru(Not authentic)
Bharat Chhoro	Mahatma Gandhi
Jai jawan Jai Kisan	Lal Bahadur Shastri (during India-Pakistan War of 1965)
Maro Firangon ko	Mangal Pandey
Jai Jagat	Vinoba Bhave
Kar mat do (Don't give tax)	Sardar Vallabhai Patel
Sampurn Kranti (Total revolution)	Jai Prakash Narayan
Vijayi Vishwa Triranga Pyaara	Shyam Lal Gupta councillor

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Vande Mataram	Bankim Chandra Chatterjee
Jan Gan Man Adhinayak Jaya hey	Rabindra Nath Tagore
Samarajywaad ka Naash ho	Bhagat Singh
Swaraj (Self Rule) is my birthright	Bal Gangadhar Tilak
Sarfaroshi ki tamanna, ab hamare dil me hai	Ram Prasad Bismil
Saare jahan se achchha hindustan hamara	Iqbal
Simon Commission Go back	Yusuf Meherally
Who lives if India dies	Jawahar Lal Nehru
Tum Mujhe Khoon Do, main Tumhe Ajadi Doonga". (Give me blood and I will give you freedom)	Subhash Chandra Bose
A blow to the sticks on my head will prove to be the nail of the casket of the British rule	Lala Lajpat Rai
Satyameva Jayate" (Truth alone will win)	Pandit Madan Mohan Malaviya
"Jai Jawan Jai kisan Jai Vigyan"	Atal Bihari Vajpayee
Swaraj Mera Janamsiddh adhikar hai, aur main ise lekar rahunga	Adopted by Bal Gangadhar Tilak
Dushman ki goliyon ka hum samna karenge, Azad hee rahein hain, Azad hee rahenge	Chandra Shekhar Azad

Q83. Answer: (b) Saswati Sen – Bharatanatyam

The correct answer is Saswati Sen – Bharatanatyam.

Key Points

• Madhavi Mudgal belongs to Orissi.

• Nandini Singh belongs to Kathak.

• Radha Reddy belongs to Kuchipudi.

• Saswati Sen is a leading Indian exponent of Kathak. So 2 option is wrong.

• Yamini Krishna Murthy belongs to Bharatnatyam while Saswati Sen is the performer of Kathak.

Additional Information

Important dance form and performing states.

Dance Form	States
Bharatanatyam	Tamil Nadu
Kathakali, Mohiniyattam	Kerala
Kathak	Uttar Pradesh
Kuchipudi	Andhra Pradesh
Odissi	Odisha
Sattriya	Assam
Manipuri	Manipur

Q84. Answer: (d) Gagan Narang – Shooting

The correct answer is Gagan Narang – Shooting.

Key Points

• Sania Mirza is an Indian professional Lawn tennis player.

• Ronjan Sodhi is an Indian Double trap shooter.

• Yogeshwar Dutt is an Indian freestyle wrestler.

• Gagan Narang is an Indian shooter.

Additional Information

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• Rajiv Gandhi Khel Ratna 2020 winners:
• Rohit Sharma(Cricket).
• Mariyappan Thangavelu(Paralympian).
• Manika Batra(Table Tennis).
• Vinesh Phogat(Wrestler).
• Rani Rampal(Hockey).

Q85. Answer: (c) Wipro – Mohammed Hashim Premji

The correct answer is Wipro – Mohammed Hashim Premji.

Key Points

• Mohammed Hashim Premji is the founder of Wipro.
• Dhirajlal Hirachand Ambani was the founder of Reliance.

• Y C Deveshwar is the founder of ITC.
• NR Narayana Murthy is the founder of Infosys.

Q86. Answer: (a) Brazil

The correct answer is Brazil.

• Brazil is called the 'Coffee Bowl of the World'.

Additional Information

Nicknames of Indian cities:

City	Nicknames
Jodhpur	• Blue city. - Sun city
Ahemadabad	• Manchester of India. - Boston of India. - Denim city of India.
Mumbai	• City of 7 Islands. - Gateway of India. - Financial capital of India. - Capital of cotton textile
Bengaluru	• Electronic city of India - Silicon Valley of India. - Science city of India. - Garden city of India.
Agra	• City of love. - City of Taj.
Calcutta	• City of Joy. - The cultural capital of India. - City of Palaces. - City of Castles.
Nagpur	• Orange city. - Tiger capital of India.
Nashik	• Grape city.
Jaipur	• Pink city.

Q87. Answer: (c) Asia

The correct answer is Asia.

Key Points

• There are 48 countries in Asia today, according to the United Nations.
• Asia is the largest continent on Planet Earth.
• India, China and Japan belong to Asia.

Additional Information.

Continent	Number of Countries
Africa	54
Antarctica	0
Asia	48
Australia plus Oceania	14

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Europe	43
North America	23
South America	12

Q88. Answer: (b) When the sun and moon are at right angle to the earth.

The correct answer is When the sun and moon are at the right angle to the earth.

Key Points

• Neap tides occur as a result of the gravitational forces between the Earth, the Moon, and the Sun.

• The gravitational pull of the Moon on the Earth's water causes tides. The Sun also has a gravitational influence on the Earth's tides but to a lesser extent due to its greater distance from the Earth.

• Tides vary over the course of the lunar month (approximately 29.5 days), influenced by the relative positions of the Earth, the Moon, and the Sun.

• The most significant tides, known as spring tides, occur when the Earth, the Moon, and the Sun are aligned, which happens during the new moon and the full moon phases. During these times, the gravitational forces of the Moon and the Sun combine, leading to higher high tides and lower low tides.

• Neap tides, on the other hand, arise approximately a week after spring tides, during the first (waxing) and third (waning) quarter moon phases. In these phases, the Moon and the Sun are at right angles relative to the Earth. This configuration significantly reduces the combined gravitational influence, as the pull of the Moon and the Sun on Earth's waters partially cancels out.

• As a result, neap tides are characterized by a smaller difference between high and low tides compared to other times of the month.

• The cycle of neap and spring tides continues throughout the year, influenced by the changing positions of the Moon and Sun relative to the Earth. This natural rhythm of the ocean is fundamental to understanding coastal environments and has implications for navigation, fishing, and coastal development.

Additional Information

Different other types of tides:

• Spring tides

• The position of both the sun and the moon in relation to the earth has a direct bearing on tide height.

• When the sun, the moon, and the earth are in a straight line, the height of the tide will be higher.

• These are called spring tides and they occur twice a month, one on the full moon period and another during the new moon period.

• Apogean Tide: A monthly tide of the decreased range that occurs when the moon is at apogee (farthest from Earth).

• Perigean Tide: It occurs three or four times per year when a perigee (the point nearest Earth that the moon reaches during its 27.3-day elliptical orbit).

• Daily-Diurnal tides: A diurnal tidal cycle is a cycle with only one high tide and one low tide each on a lunar day.

• Semi-Diurnal tides: When the two high tides and the two low tides are about the same height, the pattern is called semi-diurnal tide.

Q89. Answer: (a) Amitav Ghosh

The correct answer is Amitav Ghosh.

Key Points

• Amitav Ghosh is the first English writer from India who won Jnanpith Award in 2018.

• He won the Padma Shri Award in 2007.

• Shortlisted for Man Booker Asian Prize (River of Smoke) in 2012.

• Books are written by him:

• The Flood of Fire

• The Great Derangement

• Gun Island

• River of Smoke

• The Glass Palace

• The Shadow Line

Additional Information

• Arundhati Roy is best known for her novel ‘The God of Small Things’ which won the Man Booker Prize for Fiction in 1997.

• The full name of author Jhumpa Lahiri is Jhumpa Nilanjana Sudeshna Lahiri.

• Her first novel was the 'Namesake' published in 2003.

• She won Pulitzer Prize for her debut short story collection ‘Interpreter of Maldives’ in 1999.

Q90. Answer: (c) Wrestler

The correct answer is Wrestler.

• Vinesh Phogat is an Indian wrestler who comes from a successful background of wrestling with her cousins Geeta Phogat and Babita Kumari, both international wrestlers and Commonwealth Games medalists as well.

Important Points

Some important sportspersons associated with the game:

Player	Sports
Neeraj Chopra	Athletics
Subedar Jinson Johnson	Athletics
Hima Das	Athletics
Nelakurthi Sikki Reddy	Badminton
Subedar Satish Kumar	Boxing
Smriti Mandhana	Cricket
Shubhankar Sharma	Golf
Manpreet Singh	Hockey
Rahi Sarnobat	Shooting
Ankur Mittal	Shooting
Shreyasi Singh	Shooting
Manika Batra	Table Tennis
G. Sathiyan	Table Tennis
Rohan Bopanna	Tennis
Sumit	Wrestling
Pooja Kadian	Wushu
Ankur Dhama	Para-Athletics
Manoj Sarkar	Para-Badminton

Q91. Answer: (c) Uttarakhand

The correct answer is Uttarakhand.

Key Points

• Char Dham project is an ambitious project of widening and repairing 889-kilometers of National Highways that connects the Hindu shrines of Kedarnath, Badrinath, Gangotri and Yamunotri.

• The project has also a provision to build a National Highway of 900 Km in total that will connect the whole of Uttrakhand.

• Under the Char Dham project, the Chamba Tunnel was constructed by Border Roads Organisation (BRO) which was inaugurated in October 2020.

• Prime Minister laid the foundation stone of Char Dham highway development project or Chardham Mahamarg Vikas Pariyojna at Dehradun.

Additional Information

• Uttarakhand Capital: Dehradun

• CM: Pushkar Singh Dhami

Q92. Answer: (a) Scanner

The correct answer is Scanner.

Key Points

• Input devices are used to enter data or instructions into a computer.

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• Keyboard
• Mouse
• Digital camera
• Scanner
• Mic
• Barcode reader
• Joystick

Additional Information

• Output Devices:
• The output unit receives the information from the processing unit and provides the result in a human-readable form.
• A visual display unit (Monitor, Screen)
• Printer/Plotter
• Multimedia projector
• Speaker
• Storage Devices
• Storage devices are the computer hardware used to remember/store data.
• Floppy disks
• Hard disks
• CD/DVD

Q93. Answer: (a) Lawn tennis

The correct answer is Lawn tennis.

• Novak Djokovic overpowered Rafael Nadal and led Serbia to victory in the inaugural ATP Cup at Sydney on 12 Jan 2020.
• Novak Djokovic and Rafael Nadal both belong to Lawn tennis.

Additional Information

• Some important sport's person associated with the game:

Player	Sports
Neeraj Chopra	Athletics
Subedar Jinson Johnson	Athletics
Hima Das	Athletics
Nelakurthi Sikki Reddy	Badminton
Subedar Satish Kumar	Boxing
Smriti Mandhana	Cricket
Shubhankar Sharma	Golf
Manpreet Singh	Hockey
Savita Hockey	Col. Ravi Rathore Polo
Rahi Sarnobat	Shooting
Ankur Mittal	Shooting
Shreyasi Singh	Shooting
Manika Batra	Table Tennis
G. Sathiyan	Table Tennis
Rohan Bopanna	Tennis
Sumit	Wrestling
Pooja Kadian	Wushu
Ankur Dhama	Para-Athletics

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Manoj Sarkar	Para-Badminton

Q94. Answer: (d) Dakshin Gangotri

The correct answer is Dakshin Gangotri.

Key Points

• Dakshin Gangotri is the first research station in Antarctica built by the Government of India.
• It is located at a distance of 2,500 kilometers from the South Pole.
• It is named after Dakshin Gangotri Glacier.
• It was established in 1984 and was decommissioned in 1990.
• Maitri (1989) station is India's second permanent research station in Antarctica
• India has decided to replace its Maitri research station in Antarctica with a new one in the next three to four years.

Q95. Answer: (c) Liver and pancreas

The correct answer is Liver and pancreas.

Key Points

• The human alimentary canal is the whole passage along which food passes through the body from mouth to anus during digestion.
• The main organs of the alimentary canal are:
• The Mouth: It is the first part of our digestive system. Food is ingested through the mouth.
• Buccal cavity: It comprises the palate, tongue and teeth.
• Pharynx: It is the common passage for food and air. Epiglottis prevents the entry of food into the windpipe
• Oesophagus: It is a muscular tube through which small bolus of food passes from the mouth to the stomach.
• Stomach: It is a muscular bag, positioned at the upper left part of the abdominal cavity.
• Intestine:
• Small intestine: Consists of three parts, Duodenum, Jejunum, and Ileum.
• Large intestine: Consists of three parts, Caecum, Colon, and Rectum.
• Anus
• Note: So Liver and pancreas are not part of the Alimentary canal.

Q96. Answer: (c) Manali

The correct answer is Manali.

Key Points

• Igloos are temporary winter homes.
• In India tourist can experience igloos in Manali in winter season.
• The Manali is located in Himachal Pradesh in northern India.

Additional Information

• In northern Canada, modern Inuit people live in ordinary houses.
• Some hunters, when they travel long distances, build traditional snow shelters called igloos.

Q97. Answer: (a) ICS

The correct answer is ICS.

Key Points

• There are three categories of All India Civil Services:
• Indian Administrative Service (IAS)
• Indian Police Service (IPS)
• Indian Forest Service (IFoS)

Additional Information

• Lord Cornwallis is considered as the "Father of Indian Civil Services?.
• 1853 Act introduced an open competition system of selection and recruitment of civil servants.
• The covenanted civil service was thus thrown open to the Indians also.
• Accordingly, the Macaulay Committee (the Committee on the Indian Civil Service) was appointed in 1854.

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Q98. Answer: (b) Albert Einstein

The correct answer is Albert Einstein.

Key Points

• Relativity is a theorem, formulated by Albert Einstein.

• It states that space and time are relative and all the motion must be relative to a frame of reference.

• It is a notion that states, laws of physics are the same everywhere. This theory is simple but hard to understand.

• It states:

• There is no absolute reference frame on can measure velocity if the object or momentum is only in relation to other objects.

• The speed of light is constant irrespective of who measures it or how fast the person measuring it, is moving.

Additional Information

• Charles Darwin:

• Darwins proposed the theory of evolution by natural selection.

• First formulated in Darwin's book "On the Origin of Species" in 1859, is the process by which organisms change over time as a result of changes in heritable physical or behavioural traits.

• Watson and Crick's model was composed of two strands that are connected by bonds between nitrogen bases that have a spiral shape.

• The model showed that the DNA molecule is a double-helix.

• The DNA molecule produces two new complementary strands. Each strand of the double helix serves as a template for the new strand.

• John Dalton first proposed an atomic theory of matter and he named it Dalton's atomic theory.

• Dalton’s atomic theory was able to explain the law of conservation of mass, law of constant composition and law of multiple proportions very successfully.

Q99. Answer: (d) Rajendra Prasad

The correct answer is Rajendra Prasad.

• Rajendra Prasad was the first President of India.

• He stayed in office from 1950 to 1962.

• Dr. Rajendra Prasad was the first elected president of The Constituent Assembly.

Additional Information

• Droupadi Murumu is the President of India. (Sep 2022)

• She defeated the opposition candidate Yashwant Sinha in the election.

• First tribal and second woman to become the nation’s First Citizen and the Supreme Commander of India’s Armed Forces.

Sarvapalli Radhakrishnan was the first Vice President of India and the second President of India.

• In India, Teachers' Day on 5 September is celebrated to mark the birth anniversary of Dr Radhakrishnan.

• Pranab Mukherjee:

• He was former Union Finance Minister from 2009 to 2012.

• He was awarded the Bharat Ratna in 2019.

• He was the 13th President of India (2012-2017).

Q100. Answer: (a) Amazon

The correct answer is Amazon.

Key Points

• Jeff Bezos is the Founder and CEO of Amazon.com.

• On 22nd July he was named as the third richest man in the world.

• According to Bloomberg, Bezos's total net worth hit $65.05 billion pushing him past Berkshire Hathaway's founder Warren Buffett by $32 million.

• Bezos's rise is largely due to his stock ownership in Amazon.

Additional Information

• Vijay Shekhar Sharma is an entrepreneur and founder of Paytm.

• Kalyan Krishnamurthy is the CEO of Flipkart.

• Kunal Bahl is the founder of Snapdeal.

• Ananth Narayanan is the founder of Myntra.

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