SSC CHSL 2020 Official Paper 32 (Held on: 11 Aug 2021 Shift 2) (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. Directions: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

You must return back the book you borrowed last month.

(a) must be returned back
(b) No substitution required
(c) must return
(d) must be returned

Q2. Directions: Select the option that expresses the given sentence in reported speech.

The new employee asked the manager, "When do I have to report for work?"

(a) The new manager asked the employee when he would report for work.
(b) The manager told the new employee when to report for work.
(c) The new employee asked the manager when he had to report for work.
(d) The new employee told the manager that when he had to report for work.

Q3. Directions: Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. This cooled off into the darkness after a few million years.

B. The first time was when the universe began its existence as a glowing fireball.

C. In the modern scientific story, the light was created not once but twice.

D. The second time was when the cold material condensed into dense nuggets and ignited to become the first stars.

(a) ABCD
(b) DBAC
(c) BADC
(d) CBAD

Q4. Directions: Select the most appropriate meaning of the idiomatic expression given.

At a stone’s throw

(a) Like throwing a stone
(b) At a very short distance
(c) Beat someone with a stone
(d) Throw a stone at someone

Q5. Directions: Select the most appropriate word to fill in the blank.

Schools will restart physical classes partially and states have _____ their own conditions and procedures to ensure the safety of students.

(a) insisted
(b) devised
(c) accepted

(d) adopted

Q6. Directions: The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Only five minutes / are allowed / for each speaker / during the function.

(a) are allowed
(b) Only five minutes
(c) during the function
(d) for each speaker

Q7. Directions: Select the option that expresses the given sentence in the active or passive voice.

Fifteen children were rescued from an unregistered home by the police.

(a) The police have rescued fifteen children from an unregistered home.
(b) The police rescued fifteen children from an unregistered home.
(c) The police were rescued fifteen children from an unregistered home.
(d) Fifteen children rescued the police from an unregistered home.

Q8. Directions: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

We have finished our work for the day, so let we go home early today.

(a) No substitution required
(b) let our go
(c) let ours go
(d) let us go

Q9. Directions: Select the most appropriate ANTONYM of the given word.

Gloomy

(a) Bright
(b) Dull
(c) Dismal
(d) Catchy

Q10. Directions: Select the INCORRECTLY spelt word.

(a) Dilemma
(b) Recurrent
(c) Unpretensious
(d) Excellence

Q11. Directions: Select the most appropriate ANTONYM of the given word.

Curt

(a) Dismal
(b) Polite
(c) Rude
(d) Impolite

Q12. Directions: Select the option that can be used as a one-word substitute for the given group of words.

A quick, sudden movement

(a) Speak
(b) Fleck
(c) Dust
(d) Flick

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Q13. Directions: Select the most appropriate synonym of the given word.

Appalling

(a) Shocking
(b) Tremendous
(c) Fantastic
(d) Awesome

Q14. Directions: Select the option that can be used as a one-word substitute for the given group of words.

A busy, main road for public use

(a) Thoroughfare
(b) Highway
(c) Promenade
(d) Avenue

Q15. Directions: The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Although we had / very good batsmen, / we couldn't be able to / score high.

(a) we couldn't be able to
(b) score high
(c) very good batsmen
(d) Although we had

Q16. Directions: Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. This means that decisions should not be taken under any kind of pressure to benefit individuals or only a small section of society.

B. First, there should be transparency in making decisions; secrecy breeds corruption.

C. There are certain values that civil servants need to imbibe in themselves for better administration.

D. Then, all decisions must be taken only in the public interest, to benefit the community at large.

(a) CADB
(b) BADC
(c) CBDA
(d) DABC

Q17. Directions: Select the INCORRECTLY spelt word.

(a) Ambush
(b) Disastrous
(c) Canfidents
(d) Provoke

Q18. Directions: Select the most appropriate meaning of the given idiom.

To fish in troubled waters

(a) To take advantage of a difficult situation.
(b) To try to do something that is very difficult.
(c) To catch fish in stormy weather in the sea.
(d) To try to find a big catch in the deep sea.

Q19. Directions: Select the most appropriate synonym of the given word.

Trail

(a) Rehearsal
(b) Path
(c) Glory
(d) Win

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Q20. Directions: Select the most appropriate word to fill in the blank.

When you speak, there are gestures and body language that _____ your words.

(a) construct
(b) accomplish
(c) accompany
(d) achieve

Directions

Directions: In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

What are the future possibilities for space travel in the long term? _(1)_ will humans go after they have explored our solar system? It is said that 'Star Trek' could hold the _(2)_ to these questions. It is predicted that travel to other galaxies will only be _(3)_ in huge 'starships'. These will wander through space for hundreds or even thousands of years. Each of them will carry a large human _(4)_. Some of those people will take over a suitable new planet and settle down there. This search for new planets to settle in will continue until life on planet Earth could be just a _(5)_ memory.

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

(a) When
(b) Why
(c) How
(d) Where

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

(a) solution
(b) query
(c) answer
(d) door

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

(a) achieved
(b) implemented
(c) possible
(d) imagined

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

(a) proportion
(b) population
(c) colony
(d) instinct

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

(a) nearest
(b) imaginary
(c) factual
(d) distant

GENERAL INTELLIGENCE

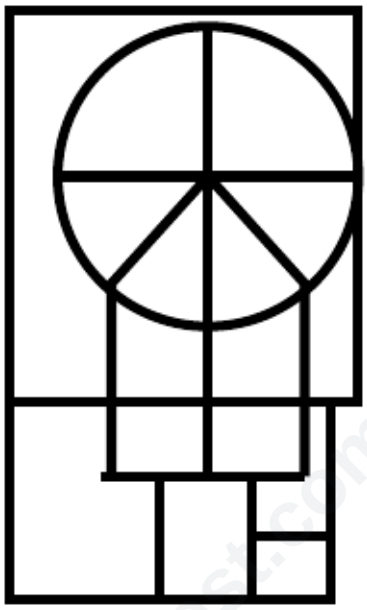
Q26. Select the option in which the numbers are related in the same way as are the numbers of the following set

(25, 17, 170)

(a) (36, 12, 144)
(b) (49, 20, 140)
(c) (23, 18, 421)
(d) (24, 60, 240)

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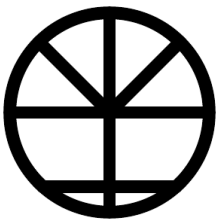
Q27. Select the option that is embedded in the given figure (rotation is NOT allowed).



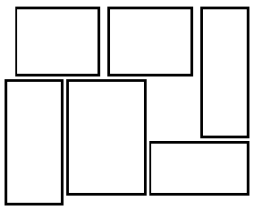
(a)



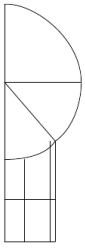
(b)



(c)



(d)



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Q28. What was the day of the week on 31 January 2009?

(a) Saturday
(b) Monday
(c) Sunday
(d) Friday

Q29. In a certain code language, 'TOPPER' is coded as '66' and 'MARK' is coded as '61'. How will 'INDUCE' be coded in that language?

(a) 86
(b) 100
(c) 96
(d) 106

Q30. Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different.

(a) 24 : 130
(b) 30 : 225
(c) 20 : 100
(d) 14 : 49

Q31. Select the number from among the given options that can replace the question mark (?) in the following series.

59, 59, 61, 183, 187, ?

(a) 935
(b) 632
(c) 876
(d) 705

Q32. If Aniket is the brother of the son of Priyanka's son, then how is Aniket related to Priyanka?

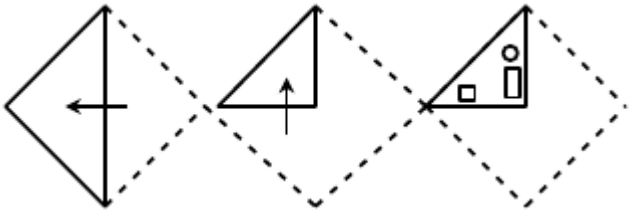
(a) Cousin
(b) Brother
(c) Son
(d) Grandson

Q33. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Ruthless
2. Ruler
3. Routine
4. Rusticate
5. Rugby

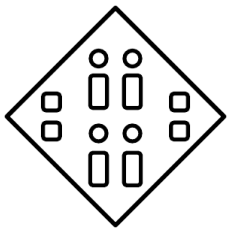
(a) 3, 5, 2, 4, 1
(b) 3, 5, 2, 1, 4
(c) 5, 3, 2, 4, 1
(d) 3, 2, 5, 4, 1

Q34. 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?

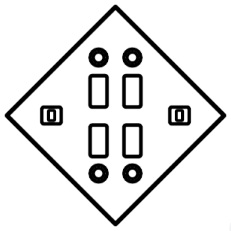


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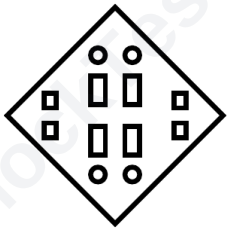
(a)



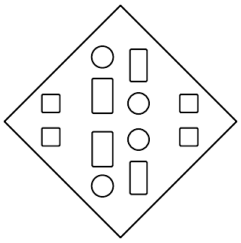
(b)



(c)



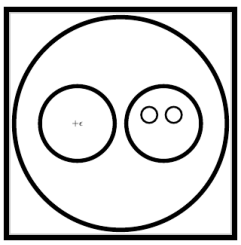
(d)



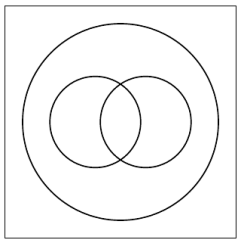
Q35. Select the Venn diagram that best represents the relationship between the following classes.

Brother, Family, Sister

(a)

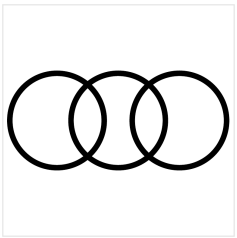


(b)

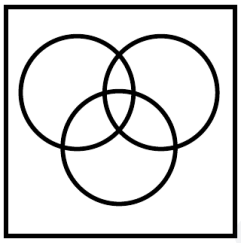


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(c)



(d)

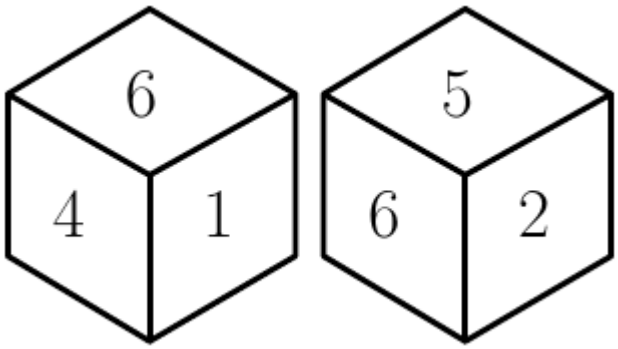


Q36. Select the option in which the numbers are related in the same way as are the numbers of the following set.

(16, 60, 240)

(a) (20, 12, 121)
(b) (16, 38, 260)
(c) (14, 42, 196)
(d) (18, 56, 252)

Q37. Two different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Select the number that will be on the face opposite to the face having '3'?



(a) 2
(b) 4
(c) 5
(d) 6

Q38. Select the option in which the words share the same relationship as that shared by the given pair of words.

Libya : Tripoli

(a) Kampala : Uganda
(b) Zambia : Lusaka
(c) Harare : Zimbabwe
(d) Afghanistan : Jakarta

Q39. Select the option that is related to the third word in the same way as the second word is related to the first word.

Entomology : Insects : : Palaeontology : ?

(a) Minerals
(b) Automobile
(c) Earthquakes

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(d) Fossils

Q40. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

(a) EBCD
(b) WXYZ
(c) NKLM
(d) IFGH

Q41. Which two signs should be interchanged to make the given equation correct?

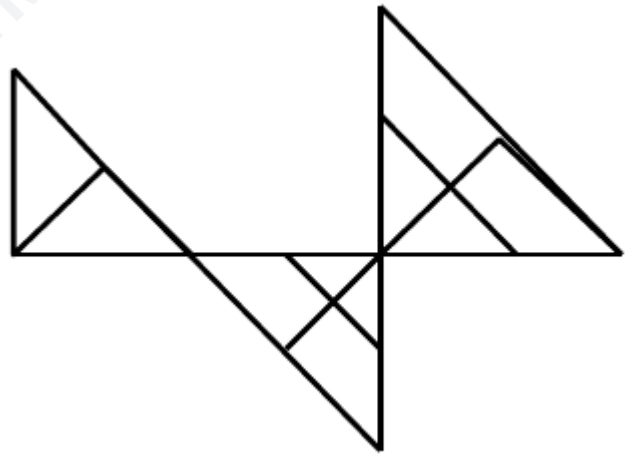
45 – 49 + 26 × 70 ÷ 35 = 42

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

Q42. Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.

(a) Saxophone
(b) Mandolin
(c) Clarinet
(d) Flute

Q43. How many triangles are there in the given figure?

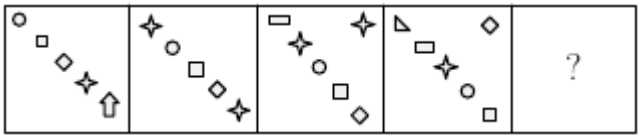


(a) 17
(b) 14
(c) 15
(d) 16

Q44. In a certain code language, 'UMBRELLA' is written as 'VNCSDKKZ' and 'FASTENED' is written as 'GBTUDMDC'. How will 'MONUMENT' be written in that language?

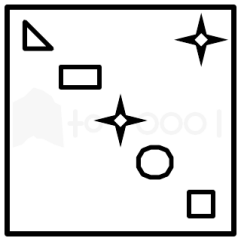
(a) NPOVPFOU
(b) NPOVLDMS
(c) NPOWLEOS
(d) LNMTLGMS

Q45. Select the figure from among the given options that can replace the question mark (?) in the following series.

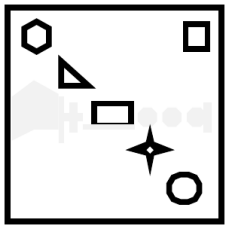


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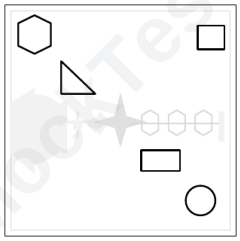
(a)



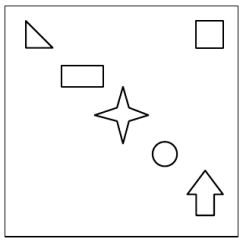
(b)



(c)



(d)



Q46. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



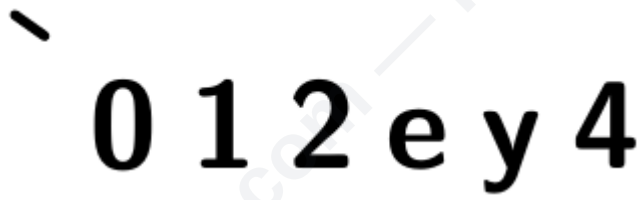
(a)



(b)



(c)



(d)



Q47. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

p _ t b c p r _ b c _ r t b _ p _ t _ c

(a) r, p, c, t, b, r

(b) r, t, p, c, r, b

(c) r, p, t, r, b, c

(d) r, c, p, b, t, r

Q48. Read the given statements and conclusions carefully. Assuming that the information given in the statements 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:

Some balls are spoons.

All stones are balls.

No ball is a pebble.

Conclusions:

I. Some balls are stones.

II. No spoon is a stone.

III. No stone is a pebble.

(a) Both conclusions I and II follow

(b) Both conclusions I and III follow

(c) Both conclusions II and III follow.

(d) Only conclusion III follows.

Q49. Select the option that is related to the fourth number in the same way as the first number is related to the second number and the fifth number is related to the sixth number.

24 : 144 :: ? : 174 :: 35 : 210

(a) 29

(b) 33

(c) 27

(d) 38

Q50. Select the option that is related to the third term in the same way as the second term is related to the first term.

SHOVEL : MFWPIT :: NOVICE : ?

(a) OPWJDF
(b) MNUHBD
(c) FDJWPO
(d) WPOHBD

QUANTITATIVE APTITUDE

Q51. A certain sum of money amounts to Rs. 9,766 in 3 years at simple interest at R% per annum and to Rs. 10,849 in 41/2 years at the same rate of simple interest. The value of R is:

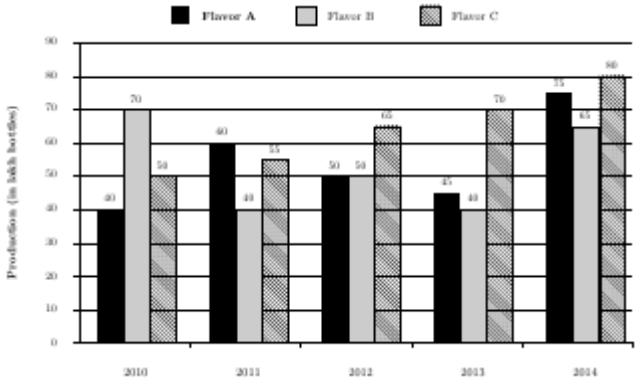
(a) 9.5
(b) 9
(c) 8.5
(d) 8

Q52. The marked price of an article is Rs. 1,360. If a shopkeeper sold the article at 15% loss after giving 25% discount, then the cost price of the article is:

(a) Rs. 1400
(b) Rs. 1600
(c) Rs. 1200
(d) Rs. 1500

Q53. A soft drink company prepares drinks of three different flavours - A, B and C. The production of the three flavours over a period of five years from 2010 to 2014 has been expressed in the given bar graph. Study the graph and answer the question that follows.

Production of three different flavours A, B and C (in lakh bottles) by a company over five years.



What was the approximate percentage decline in the production of flavour A in 2013 as compared to the production of flavour A in 2011?

(a) 25%
(b) 24%
(c) 30%
(d) 20%

Q54. If $\cot^2 \theta + \cot^4 \theta = 2$, then the value of $2 \sin^4 \theta + \sin^2 \theta$ is:

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

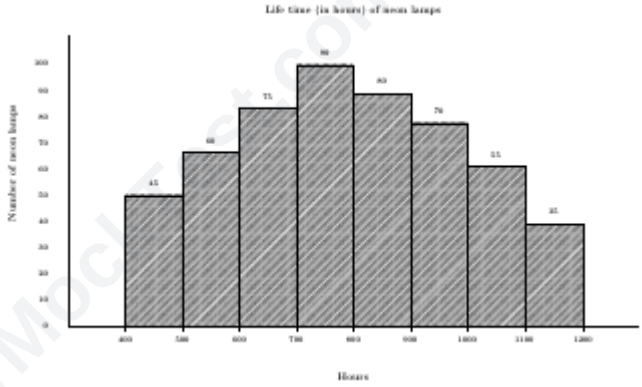
Q55. If a - b = 7 and $a^2 + b^2 = 169$ where a, b > 0, the value of 3a + b is:

(a) 41
(b) 46
(c) 44
(d) 38

Q56. The smallest six-digit number that is exactly divisible by 53 is:

(a) 100011
(b) 100042
(c) 100064
(d) 100008

Q57. Study the given bar graph which shows the lifetime (in hours) of neon lamps and the number of neon lamps and answer the question that follows.



The number of neon lamps having life 500 hours or more but less than 700 hours is what percent of the total number of neon lamps having life 800 hours or more?

(a) 61.55%
(b) 51.85%
(c) 56.25%
(d) 57.75%

Q58. A completes 20% of a work in 5 days and B completes one-third of the work in 5 days. They began the work together but B leaves after 3 days. The total number of days needed for completion of the work is:

(a) 18
(b) 20
(c) 24
(d) 30

Q59. A, B and C are three positive numbers such that A is 70% of B, and B is 40% of C. If the sum of all three numbers is 336, then 15% of the sum of B and C is:

(a) 32
(b) 44
(c) 48
(d) 42

Q60. A. B and C are three positive numbers such that the average of three-fifth of A and 30% of B is 13.5, and the average of 3/8 times of B and 25% of C is 15. If A is equal to 5/12 times of C, then the sum of all three numbers A, B and C is:

(a) 120
(b) 145
(c) 135
(d) 125

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Q61. If the volume of a sphere is 697 4/21 cm³ then its radius is: (Take π = 22/7)

(a) 5.5 cm
(b) 4.5 cm
(c) 6 cm
(d) 5 cm

Q62. The value of 441÷[270÷3/7 of 35+(17÷1/3)-(81/2-5/2)] is:

(a) 7
(b) 21
(c) 11
(d) 14

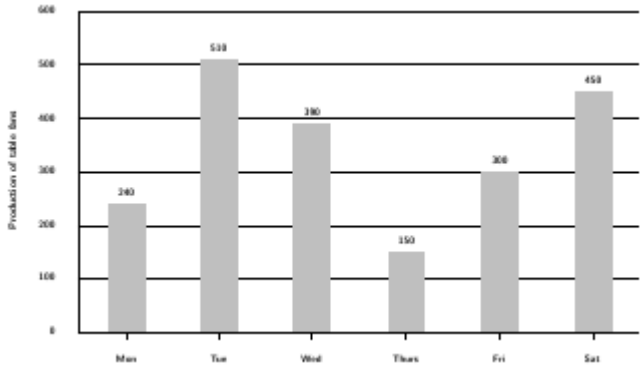
Q63. A sum of money is distributed among A, B, C and D in the ratio 5 : 7 : 11 : 15, respectively. If C gets Rs. 2,480 more than B, then the difference between the shares of B and D is:

(a) Rs. 6,490
(b) Rs. 4,960
(c) Rs. 4,950
(d) Rs. 4,690

Q64. A, B and C are three points on a circle whose centre is O. If angle BOC is equal to 124°, then what is the value (in degrees) of angle BAC ?

(a) 72
(b) 66
(c) 34
(d) 62

Q65. The given bar graph shows the production of table fans in a factory during one week. Study the bar graph and answer the question that follows.



The average production of table fans from Monday to Wednesday is approximately what percentage more than the average production of table fans from Thursday to Saturday?

(correct to one decimal place)

(a) 25%
(b) 27.5%
(c) 26.7%
(d) 28%

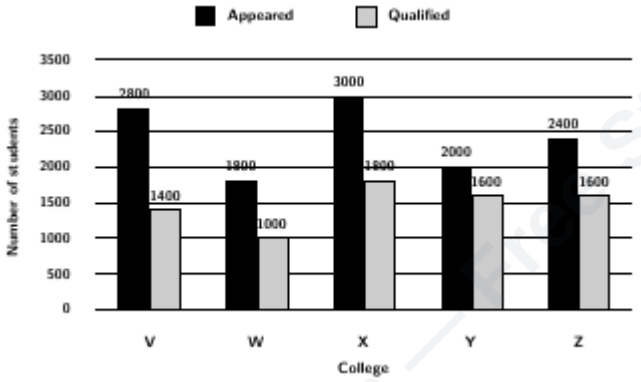
Q66. x, y are two positive numbers such that x > y. If x^4 + y^4 = 706 and xy = 15, then the value of 2x + 3y is:

(a) 19
(b) 20
(c) 15
(d) 18

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Q67. Study the following graph and answer the question that follows.

Number of students that appeared and qualified, from various colleges, at a scholarship examination.



The number of students that appeared for the scholarship exam from College X is what percentage of the total number of students that appeared for the exam from all the colleges together?

(a) 25
(b) 30
(c) 35
(d) 20

Q68. Ajit Singh left from place P at 9.30 a.m. for place Q, and David Raj left place Q at 1.30 p.m. for place P. The distance between them is 416 km. If Ajit Singh's speed is 44 km/h and David Raj's speed is 52 km/h, then at what time will they meet each other?

(a) 4 p.m.
(b) 6 p.m.
(c) 4.30 p.m.
(d) 5 p.m.

Q69. Solve for θ : $3 \operatorname{cosec} \theta + 4 \sin \theta - 4\sqrt{3} = 0$, where θ is an acute angle.

(a) 15°
(b) 60°
(c) 45°
(d) 30°

Q70. Vijay bought a fridge and a washing machine together for Rs. 38,200. He sold the fridge at a profit of 15% and washing machine at a loss of 24% and both are sold at the same price. The cost price of the washing machine is:

(a) Rs. 24,000
(b) Rs. 22,000
(c) Rs. 23,000
(d) Rs. 26,000

Q71. In a triangle ABC, the length of side AC is 4 cm less than five times the length of side AB. The length of side BC exceeds four times the length of side AB by 4 cm. If the perimeter of Δ ABC is 90 cm, then its area is:

(a) 180 cm^2
(b) 160 cm^2
(c) 148 cm^2
(d) 164 cm^2

Q72. If $a-24/a=5$, where $a > 0$, then the value of $a^2+64/(a^2)$ is:

(a) 45
(b) 60
(c) 56
(d) 65

Q73. The sum of three sides of an isosceles triangle is 20 cm, and the ratio of an equal side to the base is 3 : 4. The altitude of the triangle is:

(a) 3√5 cm
(b) 4√5 cm
(c) 3√3 cm
(d) 2√5 cm

Q74. if the radius of a circle is equal to a diagonal of a square whose area is 12 cm², then the area of the circle is:

(a) 24 π cm²
(b) 32 π cm2
(c) 28 π cm2
(d) 36 π cm2

Q75. If cot A + cosec A = 2 and A is an acute angle, then the value of (9tan A+16 cosec A)/(5sin A+3tan A) is:

(a) 8
(b) 4
(c) 6
(d) 3

GENERAL AWARENESS

Q76. Chulia waterfall is situated on Chambal River in _____.

(a) Rajasthan
(b) Madhya Pradesh
(c) Gujarat
(d) Uttar Pradesh

Q77. The Battle of Bedara was fought between the British Army and the Dutch Army in:

(a) 1764
(b) 1760
(c) 1772
(d) 1759

Q78. In which of the following states is Neora Valley National Park situated?

(a) Kerala
(b) West Bengal
(c) Maharashtra
(d) Himachal Pradesh

Q79. In the Union Budget 2020-21, the Government of India proposed to spend Rs. 30,42,230 crore in 2020-21, which is _____ higher than the revised estimate of 2019-20.

(a) 18.9%
(b) 18.7%
(c) 17.6%
(d) 12.7%

Q80. India's first lithium refinery, which will process lithium ore to produce battery-grade material, will be set up in:

(a) Madhya Pradesh
(b) Uttar Pradesh
(c) Rajasthan
(d) Gujarat

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Q81. Which of the following Hindu festivals is celebrated in the last month of the Hindu calendar?

(a) Holi
(b) Makara Sankranti
(c) Raksha Bandhan
(d) Diwali

Q82. The nephron is the microscopic structural and functional unit of the:

(a) kidney
(b) lung
(c) heart
(d) liver

Q83. Which of the following is an input device used to verify the legitimacy or originality of paper documents, especially cheques?

(a) Electronic card reader
(b) Magnetic ink character recognition
(c) Non-impact printer
(d) Optical mark reader

Q84. Which of the following organisations was awarded with the Nobel Peace Prize 2020?

(a) World Food Programme
(b) World Trade Organization
(c) World Health Organization
(d) International Labour Organization

Q85. Which of the following is the correct definition of bank rate?

(a) It is the rate of interest payable by commercial banks to RBI
(b) It is the rate of interest payable by a scheduled bank at which RBI lends overnight.
(c) It is the rate of interest payable by RBI to commercial banks
(d) It is the rate of interest payable by a consumer to commercial banks.

Q86. Which of the following is an open source operating system?

(a) Windows 10
(b) iOS
(c) Android
(d) Windows Vista

Q87. In which of the following states was the Monpa handmade paper making unit inaugurated in December 2020?

(a) Manipur
(b) Tripura
(c) Assam
(d) Arunachal Pradesh

Q88. 'PVC' is a high strength thermoplastic material widely used in applications, such as pipes, medical devices, wire and cable insulation. What is the full form of PVC?

(a) Polyvinyl Carbazole
(b) Polyvinyl Carbonate
(c) Polyvinyl Calcium
(d) Polyvinyl Chloride

Q89. Which of the following diseases damages the eye's optic nerve and results in vision loss and blindness and occurs when the normal fluid pressure inside the eyes slowly rises?

(a) Gonorrhoea
(b) Psoriasis
(c) Glaucoma

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(d) Vitiligo

Q90. Which of the following mountain passes is situated in the state of Uttarakhand?

(a) Baralacha La Pass
(b) Mangsha Dhura Pass
(c) Nathu La Pass
(d) Bomdi La Pass

Q91. What was India's rank in the World Press Freedom Index 2020?

(a) 97
(b) 142
(c) 92
(d) 139

Q92. To which country does the French Open 2020 women's singles winner, Iga Swiatek belong?

(a) France
(b) China
(c) Japan
(d) Poland

Q93. After over 21 years stay in South Africa, Gandhiji returned to India in _____.

(a) 1915
(b) 1917
(c) 1916
(d) 1919

Q94. Who among the following was the first female hockey player to have won the Rajiv Gandhi Khel Ratna Award?

(a) Reena Khokhar
(b) Lilima Minz
(c) Gurjit Kaur
(d) Rani Rampal

Q95. Which of the following writs is a challenge to the legality of a prisoner's detention?

(a) Mandamus
(b) Prohibition
(c) Habeas corpus
(d) Quo Warranto

Q96. Who is the Chief Justice of Bangladesh as of May 2020?

(a) Syed Mahmud Hossain
(b) Sheikh Hasina
(c) Abdul Hamid
(d) Narender Batra

Q97. National Highway No. 7 connects:

(a) Kashmir to Kanyakumari
(b) Varanasi to Kanyakumari
(c) Fazilka to Mana
(d) Kanpur to Silchar

Q98. Who among the following won the 'Tenzing Norgay National Adventure Award' in August 2020 in the 'Water Adventure' category?

(a) Sarfaraz Singh
(b) Satyendra Singh
(c) Anita Devi

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(d) Narendra Singh

Q99. The 'Hornbill Festival' is a celebration held every year from 1 to 10 December in _____.

(a) Uttarakhand
(b) Nagaland
(c) Kerala
(d) Haryana

Q100. Who was appointed as UNICEF's celebrity advocate for a children's rights campaign in September 2020?

(a) Ayushmann Khurrana
(b) Akshay Kumar
(c) Aamir Khan
(d) Nawazuddin Siddiqui

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) must return

The solution is in Hindi. Read it online.

Q2. Answer: (c) The new employee asked the manager when he had to report for work.

The solution is in Hindi. Read it online.

Q3. Answer: (d) CBAD

The solution is in Hindi. Read it online.

Q4. Answer: (b) At a very short distance

The solution is in Hindi. Read it online.

Q5. Answer: (b) devised

The solution is in Hindi. Read it online.

Q6. Answer: (a) are allowed

The solution is in Hindi. Read it online.

Q7. Answer: (b) The police rescued fifteen children from an unregistered home.

The solution is in Hindi. Read it online.

Q8. Answer: (d) let us go

The solution is in Hindi. Read it online.

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Q9. Answer: (a) Bright

The solution is in Hindi. Read it online.

Q10. Answer: (c) Unpretensious

The solution is in Hindi. Read it online.

Q11. Answer: (b) Polite

The solution is in Hindi. Read it online.

Q12. Answer: (d) Flick

The solution is in Hindi. Read it online.

Q13. Answer: (a) Shocking

The solution is in Hindi. Read it online.

Q14. Answer: (a) Thoroughfare

The solution is in Hindi. Read it online.

Q15. Answer: (a) we couldn't be able to

The solution is in Hindi. Read it online.

Q16. Answer: (c) CBDA

The solution is in Hindi. Read it online.

Q17. Answer: (c) Canfidents

The solution is in Hindi. Read it online.

Q18. Answer: (a) To take advantage of a difficult situation.

The solution is in Hindi. Read it online.

Q19. Answer: (b) Path

The solution is in Hindi. Read it online.

Q20. Answer: (c) accompany

The solution is in Hindi. Read it online.

Q21. Answer: (d) Where

The solution is in Hindi. Read it online.

Q22. Answer: (c) answer

The solution is in Hindi. Read it online.

Q23. Answer: (c) possible

The solution is in Hindi. Read it online.

Q24. Answer: (b) population

The solution is in Hindi. Read it online.

Q25. Answer: (d) distant

The solution is in Hindi. Read it online.

Q26. Answer: (a) (36, 12, 144)

The Logic here is as follows:

(√1^(st) number × 2^(nd) number) × 2 = 3^(rd) Number

In (25, 17, 170)

(√1^(st) number × 2^(nd) number) × 2

= (√25 × 17) × 2

= (5 × 17) × 2

= 85 × 2

= 170 = 3^(rd) Number

Similarly,

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In (36, 12, 144)

(√1^(st) number × 2^(nd) number) × 2

= (√36 × 12) × 2

= (6 × 12) × 2

= 72 × 2

= 144 = 3^(rd) Number

Hence, the correct answer is "(36, 12, 144)".

Q27. Answer: (c) [figure]

The embedded part of this image is:

Hence, option (3) is the correct answer.

Q28. Answer: (a) Saturday

No. of Odd days	Simple year	Leap year
365 ÷ 7 = 52 weeks + 1 odd day	366 ÷ 7 = 52 weeks + 2 odd day	

Years	No. of odd days
100 years	5
200 years	3
300 years	1
400 years	0

Note: Multiple of 400 years i.e. 800, 1200, 1600, 2000 have 0 odd days.

Calculating leap year: For Finding number of leap year (1-99)yr, divide the number of years by 4 and the quotient will be the number of leap year.

Leap year between 2000 to 2009 = 2004 and 2008

And,

Non leap year between 2000 and 2009 = 2001, 2002, 2003, 2005, 2006 and 2007

So, total number of odd day between 2000 and 2009 = 6 (Total Non- leap year) + 4 (Two leap year) = 10 days = 3 odd day

Code of the day	Day
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday

So, 1 January 2009 was Thursday.

So, 29 January was also Thursday.

31 January 2009 = 29 January 2009 + 2 days

31 January 2009 = Thursday + 2

So, 31 January 2009 was Saturday.

Hence, 31 January 2009 was “Saturday”.

Q29. Answer: (b) 100

The table is alphabets place value:

The pattern followed here is:

Sum of the opposite alphabets place value - number of alphabets = number.

'TOPPER' is coded as '66'

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TOPPER → Total number of alphabets is 6.
Sum of the opposite alphabets place value - number of alphabets = number.
=> (7 + 12 + 11 + 11 + 22 + 9) - 6 = 72 - 6 = 66
And,
'MARK' is coded as '61'
MARK → Total number of alphabets is 4.
Sum of the opposite alphabets place value - number of alphabets = number.
=> (14 + 26 + 9 + 16) - 4 = 65 - 4 = 61
Similarly,
INDUCE = ?
INDUCE → Total number of alphabets is 6.
Sum of the opposite alphabets place value - number of alphabets = number.
=> (18 + 13 + 23 + 6 + 24 + 22) - 6 = 106 - 6 = 100
Hence, 'INDUCE' is coded as "100".

Q30. Answer: (a) 24 : 130

The logic is here is:
(1^(st) number ÷ 2)² = 2^(nd) number.
Now, follow the logic:
Option (1): 24 : 130
(24 ÷ 2)² = 12² = 144 ≠ 1st number.
This option do not follow the pattern.
Option (2): 30 : 225
(30 ÷ 2)² = 15² = 225 = 2nd number.
This option follows the pattern.
Option (3): 20 : 100
(20 ÷ 2)² = 10² = 100 = 2nd number.
This option follows the pattern.
Option (4): 14 : 49
Now, follow the logic:
(14 ÷ 2)² = 7² = 49 = 2nd number
This option follows the pattern.
Hence, pair “24 : 130” is an odd one.

Q31. Answer: (a) 935

The pattern followed here is:
Hence, '935' is the correct answer.

Q32. Answer: (d) Grandson

Preparing the family tree using the following symbols,
Given:
Aniket is the brother of the son of Priyanka's son.
We can draw the following Family Tree from the information given above:
Hence, Aniket is the "Grandson" of the Priyanka.

Q33. Answer: (a) 3, 5, 2, 4, 1

According to the sequence in the dictionary:
The correct order of the given words is:
3. Routine
5. Rugby
2. Ruler
4. Rusticate
1. Ruthless

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

Q34. Answer: (c) [figure]

The image obtained when the paper is unfolded is,

Hence, option 3 is the correct answer.

Q35. Answer: (a) [figure]

The Venn diagrams best represent the relationship between - Brother, Family, Sister figures are shown below:

The family has a brother and sister and no brother is a sister.

Hence, ‘option 1’ is the correct answer.

Q36. Answer: (d) (18, 56, 252)

The Logic here is as follows:

(1^(st) number × 2^(nd) number) ÷ 4 = 3^(rd) number

In (16, 60, 240)

(1^(st) number × 2^(nd) number) ÷ 4

= (16 × 60) ÷ 4

= 960 ÷ 4

= 240 = 3^(rd) Number

Now check the all options,

Option (1) (20, 12, 121)

(1^(st) number × 2^(nd) number) ÷ 4

= (20 × 12) ÷ 4

= 240 ÷ 4

= 60 ≠ 3^(rd) Number

Option (2) (16, 38, 260)

(1^(st) number × 2^(nd) number) ÷ 4

= (16 × 38) ÷ 4

= 608 ÷ 4

= 152 ≠ 3^(rd) Number

Option (3) (14, 42, 196)

(1^(st) number × 2^(nd) number) ÷ 4

= (14 × 42) ÷ 4

= 588 ÷ 4

= 147 ≠ 3^(rd) Number

Option (4) (18, 56, 252)

(1^(st) number × 2^(nd) number) ÷ 4

= (18 × 56) ÷ 4

= 1008 ÷ 4

= 252 = 3^(rd) Number

Hence, the correct answer is "(18, 56, 252)".

Q37. Answer: (d) 6

Logic: If two dice have the same face value in the given image then their clockwise or anticlockwise wise number are known as opposite numbers in dice.

If we rotate the second dice in an anti-clockwise direction.

We get,

In first dice and second dice.

The number '6' is common.

The left letter will be opposite to each other writing them clockwise starting from 6.

Number	Opposite
1	5

4	2
6	3

Hence, the face opposite to the 3 is “6”.

Q38. Answer: (b) Zambia : Lusaka

The logic followed here is:
Logic: Country : Capital
Libya : Tripoli → Tripoli city is the capital of Libya country.
Similarly,
Zambia : Lusaka → Lusaka city is the capital of Zambia country.
Hence, ‘Zambia : Lusaka’ is the correct answer.
Mistake Points Kampala is the Capital of Uganda and Harare is the Capital of Zimbabwe.
But, the order given of the remaining options does not according to the question order. Only option 2 follows that pattern.

Q39. Answer: (d) Fossils

The logic followed here is:
Entomology : Insects → Entomology is the study of Insects.
Similarly,
Palaeontology : Fossils → Palaeontology is the study of Fossils.
Hence, ‘Fossils’ is the correct answer.

Q40. Answer: (b) WXYZ

Table show alphabet serial number –
The pattern followed is,
All follow the same pattern, except 'WXYZ’.
Hence, “WXYZ” is the odd one.

Q41. Answer: (d) • and –

According to the BODMAS rule:
Option 1 : × and –
Given:
45 – 49 + 26 × 70 ÷ 35 = 42
After interchange the signs;
45 × 49 + 26 - 70 ÷ 35 = 42
By BODMAS rule
45 × 49 + 26 - 2 = 42
2205 + 26 - 2 = 42
2231 - 2 = 42
2229 = 42 (LHS ≠ RHS)
Option 2 : ÷ and ×
Given:
45 – 49 + 26 × 70 ÷ 35 = 42
After interchange the signs;
45 – 49 + 26 ÷ 70 × 35 = 42
By BODMAS rule
45 – 49 + 0.37 × 35 = 42
45 – 49 + 13 = 42
58 – 49 = 42
9 = 42 (LHS ≠ RHS)
Option 3: + and ×
Given:
45 – 49 + 26 × 70 ÷ 35 = 42

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After interchange the signs;
45 – 49 × 26 + 70 ÷ 35 = 42
By BODMAS rule
45 – 49 × 26 + 2 = 42
45 – 1274 + 2 = 42
47 – 1274 = 42
– 1227 = 42 (LHS ≠ RHS)
Option 4: + and –
Given:
45 – 49 + 26 × 70 ÷ 35 = 42
After interchange the signs;
45 + 49 - 26 × 70 ÷ 35 = 42
By BODMAS rule
45 + 49 - 26 × 2 = 42
45 + 49 - 52 = 42
94 - 52 = 42
42 = 42 (LHS = RHS)
Hence, the answer is “+ and –”.

Q42. Answer: (b) Mandolin

The logic followed here is:
Option (1) Saxophone → The saxophone is in a woodwind family group of musical instruments.
Option (2) Mandolin → The Mandolin is in a stringed family group of musical instruments.
Option (3) Clarinet → The Clarinet is in a woodwind family group of musical instruments.
Option (4) Flute → The Flute is in a woodwind family group of musical instruments.
All musical instruments are in a woodwind family group expect ‘Mandolin’.

Musical instruments	Group
Saxophone	Woodwind
Mandolin	Stringed
Clarinet	Woodwind
Flute	Woodwind

Hence, “Mandolin” is an odd one.

Q43. Answer: (c) 15

The number of triangles in the given figure is:
So, there are a total of 15 triangles in the figure.
Hence, ‘15’ is the correct answer.

Q44. Answer: (b) NPOVLDMS

The table is alphabets place value:
The pattern followed here is:
'UMBRELLA' is written as 'VNCSDKKZ'
And,
'FASTENED' is written as 'GBTUDMDC'
Similarly,
MONUMENT = ?
Hence, 'MONUMENT' is coded as "NPOVLDMS".

Q45. Answer: (b) [figure]

The figure that will replace the question mark (?) in the following figure series is shown below:
1) Small figures move in a diagonal direction.

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2) Last small figure in diagonal transfers upper right.

3) First small figure replace as a new small figure.

Final series is

Hence, ‘option 2’ is the correct answer.

Q46. Answer: (a) [figure]

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

Hence, "option (1)" is the correct answer.

Additional Information

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

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

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

Water image is just a reflection where top and bottom part of the images changed where left and right side of the image remain same.

Q47. Answer: (b) r, t, p, c, r, b

Given:- p _ t b c p r _ b c _ r t b _ p _ t _ c

We put all the option in blank area and check who create particular pattern

Option (1) r, p, c, t, b, r → p r t b c - p r p b c - c r t b t - p b t r c

Option (2) r, t, p, c, r, b → p r t b c - p r t b c - p r t b c - p r t b c

Here p r t b c is repeated.

Option (3) r, p, t, r, b, c → p r t b c - p r p b c - t r t b r - p b t c c

Option (4) r, c, p, b, t, r → p r t b c - p r c b c - p r t b b - p t t r c

♦ Option (2) gives a pattern of p r t b c - p r t b c - p r t b c - p r t b c.

Hence, ‘r, t, p, c, r, b’ is the correct answer.

Q48. Answer: (b) Both conclusions I and III follow

Statements:

Some balls are spoons.

All stones are balls.

No ball is a pebble.

The least possible diagram for the given statements is as follows

Conclusions:

I. Some balls are stones → True (Because all stones are balls so some balls are also stones)

II. No spoon is a stone → False (It is possible but not definite)

III. No stone is a pebble → True (Because all stones are balls and no ball is pebble so definitely no stone is a pebble)

Hence, “Both conclusions I and III follow” is the correct answer.

Q49. Answer: (a) 29

The pattern followed here is,

1st number × 6 = 2nd number

24 × 6 = 144

35 × 6 = 210

similarly,

x × 6 = 174

x = 29

Alternate Method

Let (1^(st) number : 2^(nd) number)

2^(nd) number ÷ 6 = 1^(st) number

Now follow the steps:

24 : 144

=> 144 ÷ 6 = 24 = 1^(st) number

And,

35 : 210
=> 210 ÷ 6 = 35 = 1^(st) number
Similarly,
? : 174
=> 174 ÷ 6 = 29 = 1^(st) number
Hence, "29" is correct answer.

Q50. Answer: (c) FDJWPO

The table is alphabets place value:
The pattern followed here is:
Given:
SHOVEL : MFWPIT
Similarly,
NOVICE : ?
Hence, 'NOVICE' is coded as "FDJWPO".

Q51. Answer: (a) 9.5

Given
Amount in 3 years = Rs. 9766
Amount in 41/2 years = Rs. 10,849
Formula used
Simple interest = (P × R × T)/100
where P, R and T are principal, rate and time.
Calculation
Amount = Principal + simple interest
9766 = Principal + simple interest for 3 years ---- (1)
10,849 = Principal + simple interest for 4.5 years ---- (2)
subtract (1) from (2)
Simple interest for 1.5 years = 10,849 - 9766 = Rs. 1083
Simple interest for 1 years = Rs.1083/1.5 = Rs 722
Simple interest for 3 years = Rs 722 × 3 = Rs. 2166
Principal = Amount - Simple interest
=> Rs. 9766 - Rs 2166
=> Rs. 7600
Now,
=> (P × R × T)/100 = S.I
=> (7600 × R × 3)/100 = 2166
=> R = (2166 × 100)/(7600 × 3)
=> R = 9.5 %
Therefore The value of R is 9.5%

Q52. Answer: (c) Rs. 1200

Given
Market price of an article = Rs. 1,360
loss = 15%
discount = 25%
Formula used
Selling Price = Market Price - Discount
selling price = Cost price - Loss
Calculation
Selling price = Market price - Discount
=> Rs. 1360 - Rs 25% of 1360
=>1360 - 340

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=> Rs. 1020
let the cost price is Rs.x
Selling price = Cost price - Loss
1020 = x - 15% of x
=> 1020 = x - (15x/100)
=> 1020 = (100x - 15x)/100
=> 1020 = 85x/100
=> (1020 × 100)/85 = x
=> 1200 = x
Therefore The cost price of the article is Rs.1200
Shortcut TrickCalculation:
C.P/M.P = (100 - D%)/100 - L%)
C.P/1360 = (100 - 25)/(100 - 15)
C.P = (75 × 1360)/85
C.P = Rs. 1200
Therefore The correct answer is Rs. 1200.

Q53. Answer: (a) 25%

Production of flavour A in 2013 = 45,00,000
Production of flavour A in 2011 = 60,00,000
Required percentage = [(60,00,000 - 45,00,000)/60,00,000] × 100
=> (15,00,000/60,00,000) × 100
=> 25%
Therefore The approximate percentage decline in the production of flavour A in 2013 as compared to the production of flavour A in 2011 was 25%

Q54. Answer: (d) 1

Given
cot2 θ + cot4 θ = 2
To find
2 sin4 θ + sin2 θ
Identity
Cosec A = 1/sin A
cot A = cos A/sin A
$\cos^2 A + \sin^2 A = 1$
$\text{cosec}^2 A - \cot^2 A = 1$
Calculation
$\cot^2\theta (1 + \cot^2\theta) = 2$
=> $\cot^2\theta \times \text{cosec}^2\theta = 2$
=> $(\cos^2\theta/\sin^2\theta) \times (1/\sin^2\theta) = 2$
=> cos²θ/sin^4θ = 2
=> cos²θ = 2 sin^4θ ---- (1)
According to question 2 sin4 θ + $\sin^2\theta$
=> $\cos^2\theta + \sin^2\theta$ (from 1)
=> 1
Therefore The value of 2 sin4 θ + sin2 θ is 1
Shortcut TrickCalculation:
cot2 θ + cot4 θ = 2
if we put θ = 45°
=> cot2 45° + cot4 45° = 2
=> 1 + 1 = 2
=> 2 = 2

Therefore θ = 45°

Now put the value of θ = 45° in the equation:

=> 2 sin4 θ + sin2 θ

=> 2 × sin4 45° + sin2 45°

=> 2 × (1/√2)^4 + (1/√2)²

=> 2 × 1/4 + 1/2

=> 1/2 + 1/2 = 1

Therefore The correct answer is 1.

Q55. Answer: (a) 41

Given

=> a - b = 7

=> a2 + b2 =169

Calculation

=> a - b = 7

Squaring on both sides, we get

=> (a - b)²= (7)²

=> a² + b² - 2ab = 49

=> 169 -2ab = 49

=> 169 - 49 = 2ab

=> 120 = 2ab

=> ab = 60

Now,

=> (a + b)² = a2 + b2 + 2ab

=> a + b = √(169 + 2 × 60)

=> a + b = √289 = 17

Because (a + b) = 17, (a - b) = 7

So, a = (17+ 7)/2 = 12, b = (17 - 7)/2 = 5

After putting the value of a = 12 and b = 5 into the equation:

=> (3a + b) = 3(12) + 5

=> 36 + 5

=> 41

Therefore The value of 3a + b is 41.

Q56. Answer: (a) 100011

Calculation:

let the smallest six-digit number is 100000.

when 100000 is divided by 53, then the remainder will be 42.

Therefore The smallest six digit number which will be divided by 53 =100000 + 53 - 42 = 1000011

Therefore Required six-digit number that is exactly divisible by 53 is 100011.

Q57. Answer: (c) 56.25%

Calculation:

Number of neon lamps having life 500 hours or more = 60 + 75 =135

Number of neon lamps having life 800 hours or more = 80 + 70 + 55 + 35 = 240

Required percentage = (135/240) × 100

=> 56.25%

Therefore The number of neon lamps having life 500 hours or more but less than 700 hours is 56.25% of the total number of neon lamps having life 800 hours or more.

Q58. Answer: (b) 20

Given

A completes 20% of work in 5 days

B completes (1/3)rd of work in 5 days
concept
work done = efficiency × time
Calculation
let the total work is x
=> 20% of x = 5
=> 100% work complete in = (5 × 100)/20 = 25 days
Let the total work completed by B be x.
(1/3)^(rd) of the work complete in 5 days.
Total work completed in 15 days.
Total units of work (L.C.M of 25 and 15) = 75 units
A's efficiency = Total work/Total time taken
=> 75/25 = 3 units
B'efficiency = 75/15 = 5 units
Work done by A and B in 1 day = 3 units + 5 units = 8 units
Work done by A and B in 3 days = 3 × 8 = 24 units
Remaining work after B left = 75 units - 24 units = 51units
Remaining work done by A alone = 51/3 = 17 days
The total time taken to complete a work is (17 + 3) = 20 days.
Therefore The total number of days needed for completion of the work is 20 days.
Alternate MethodCalculation:

Efficiency	Person	Time	Total work
3	A	25	75
5	B	15	

Now,
B leaves after working for 3 days;
Work done by B in 3 days = 5 × 3 = 15 units
So remaining work = (75 - 15) = 60 units
Now, 60 units of work has done by A
So, the number of days to complete the total work = 60/3 = 20 days.
Therefore The correct answer is 20 days.

Q59. Answer: (d) 42

Given
A = 70% of B
B = 40% of C
A + B + C = 336
Calculation
A + B + C = 336
70% of B + 40% of C + C = 336
=> (70/100) × (40% of C) + 40% of C + C = 336
=> (28C/100) + (40C/100) + C = 336
=> (28C + 40C + 100C)/100 = 336
=> 168C/100 = 336
=> C = (336 × 100)/168
=> C = 200
B = 40% of C
=> (40/100) × 200
=> 80
15% of sum of B and C = 15% of (80 + 200)

=> (15/100) × 280
=> 42
Therefore 15% of the sum of B and C is 42.

Q60. Answer: (d) 125

Given
[(3/5)th of A + 30% of B]/2 = 13.5
[(3/8)th of B + 25% of C]/2 = 15
A = (5/12) times of C
Calculation
[(3/5)th of A + 30% of B]/2 = 13.5
(3/5) × (5/12) times of C + (30B/100) = 27
=> (C/4) + (3B/10) = 27
=> (5C + 6B)/20 = 27
=> 5C + 6B = 540 ---- (1)
[(3/8)th of B + 25% of C]/2 = 15
=> (3B/8) + 25% of C = 30
=> (3B/8) + (C/4) = 30
=> (3B + 2C)/8 = 30
=> 3B + 2C = 240
=> 3B = 240 - 2C
=> B = (240 - 2C)/3 ---- (2)
From 1 and 2
5C + 6[(240 - 2C)/3] = 540
=> 5C + 2(240 - 2C) = 540
=> 5C + 480 - 4C = 540
=> C = 540 - 480
=> C = 60
so, B = (240 - 2 × 60)/3
=> (240 - 120)/3
=> 120/3
=> 40
A = (5/12) times of C
=> (5/12) × 60
=> 25
A + B + C = 25 + 40 + 60
=> 125
Therefore The sum of A, B and C is 125.

Q61. Answer: (a) 5.5 cm

Given
volume of a sphere = 697 4/21 cm3
Formula used
Volume of sphere = $(4/3)\pi r^3$
where r is radius
Calculation
=>$(4/3)\pi r^3 = 697\ 4/21$
=> $(4/3)\pi r^3 = 14641/21$
=> $(4/3) \times (22/7) \times r^3 = (14641/21)$
=> $88r^3/21 = 14641/21$
=> $88r^3 = 14641$
=> $r^3 = 14641/88$

=> $r^3 = 1331/8$

=> r = 11/2

=> r = 5.5 cm

Therefore The radius is 5.5 cm.

Q62. Answer: (a) 7

Concept

Calculation

=> 441 ÷ [270 ÷ (3/7 × 35) + (17 × 3) - (17/2 - 5/2)]

=> 441 ÷ [270 ÷ (3 × 5) + 51 - (12/2)]

=> 441 ÷ [270 ÷ 15 + 51 - 6]

=> 441 ÷ [18 + 51 - 6]

=> 441 ÷ 63

=> 7

Therefore The value of 441÷[270÷3/7 of 35+(17÷1/3)-(81/2-5/2)] is 7

Q63. Answer: (b) Rs. 4,960

Given

Ratio of A, B, C and D = 5 : 7: 11 : 15

C's share = B's share + 2480

Calculation

B 's share = 7/38

let the total money is Rs.x

c's share = (7/38) × x + 2480

=> (11/38) × x = 7x/38 + 2480

=> 11x/38 = 7x/38 + 2480

=> (11x/38) - (7x/38) = 2480

=> (11x - 7x)/38 = 2480

=> 4x/38 = 2480

=> x = (2480 × 38)/4

=> x = 23560

B's share = 23560 × (7/38) = 4340

D's share = 23560 × (15/38) = 9300

Required difference = 9300 - 4340 = 4960

Therefore The difference between the shares of B and D is 4960.

Shortcut TrickCalculation:

Ratio of A, B, C and D = 5 : 7: 11 : 15

According to the question:

=> (11 - 7) = 4 units = Rs. 2480

=> 1 unit = 2480/4 = Rs. 620

Now,

=> (15 - 7) = 8 units = 620 × 8 = Rs. 4960

Therefore The correct answer is Rs. 4960.

Q64. Answer: (d) 62

Given

angle BOC = 124°

To find

angle BAC

Concept

The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.

angle BAC = angle BOC/2

Calculation

angle BAC = 124°/2

=> angle BAC = 62°

Therefore The value of angle BAC is 62°.

Q65. Answer: (c) 26.7%

Number of table fan produced from Monday to Wednesday = 240 + 510 + 390

=> 1140

Average number of table fan produced from Monday to Wednesday = 1140/3

=> 380

Number of table fans produced from Thursday to Saturday = 150 + 300 + 450

=> 900

Average number of table fan produced from Thursday to Saturday = 900/3

=> 300

Required percentage = [(380 - 300)/300] × 100

=> (80/300) × 100

=> 26.66%

=> 26.7%

Therefore The average production of table fans from Monday to Wednesday is approximately 26.7% more than the average production of table fans from Thursday to Saturday.

Q66. Answer: (a) 19

Given

x4 + y4 = 706 and xy = 15

Formula used

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

Calculation

x4 + y4 = 706

adding $2x^2y^2$ on both sides

=> $(x^2)^2 + (y^2)^2 + 2x^2y^2 = 706 + 2x^2y^2$

=> $(x^2 + y^2)^2 = 706 + 2(15)^2$

=> $(x^2 + y^2)^2 = 706 + 450$

=> $(x2 + y2)^2 = 1156$

=> $x^2 + y^2 = 34$

=> $x^2 + y^2 + 2xy = 34 + 2xy$

=> $(x + y)^2 = 34 + 2(15)$

=> $(x + y)^2= 34 + 30$

=> $(x + y)^2 = 64$

=> x + y = 8 -------(1)

Now,

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

=> $x - y = \sqrt{(34 - 2 \times 15)}$

=> $x - y = \sqrt{4} = 2$ -------(2)

From eq. (1) and eq. (2)

=> x = (8 + 2)/2 = 5

=> y = (8 - 2)/2 = 3

So, the value of 2x + 3y

=> 2(5) + 3(3)

=> 10 + 9

=> 19

Therefore The value of 2x + 3y is 19.

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Q67. Answer: (a) 25

The number of students that appeared for the scholarship exam from college X = 3000

Total number of students that appeared for the exam from all the colleges together = 2800 + 1800 + 3000 + 2000 + 2400

=> 12000

Required Percentage = (3000/12000) × 100 = 25%

Therefore The number of students that appeared for the scholarship exam from College X is 25% of the total number of students that appeared for the exam from all the colleges together.

Q68. Answer: (a) 4 p.m.

Shortcut Trick

Ajit Singh travels alone from 9.30 a.m. to 1.30 p.m. (4 hours).

Distance covered by Ajit = 44 × 4 = 176 km.

Remaining distance at 1.30 p.m. = 416 − 176 = 240 km.

Relative speed = 44 + 52 = 96 km/h.

Meeting time after 1.30 p.m. = 240 ÷ 96 = 2.5 hours.

1.30 p.m. + 2 hours 30 mins = 4 p.m.

Therefore The correct answer is 4 p.m.

Alternate Method

Given:

Speed of Ajit Singh (S_A) = 44 km/h

Speed of David Raj (S_D) = 52 km/h

Total Distance = 416 km

Calculations:

=> Time duration for which Ajit travels alone = 1.30 p.m. − 9.30 a.m. = 4 hours

=> Distance covered by Ajit in 4 hours = 44 × 4 = 176 km

=> Remaining distance to be covered by both = 416 − 176 = 240 km

=> Relative speed (opposite direction) = S_A + S_D = 44 + 52 = 96 km/h

=> Time taken to meet = Remaining Distance ÷ Relative Speed

=> Time = 240 ÷ 96 = 2.5 hours = 2 hours 30 minutes

=> Meeting time = 1.30 p.m. + 2 hours 30 minutes = 4.00 p.m.

Therefore The correct answer is 4 p.m.

Additional Information

Relative Speed

When two objects move in opposite directions, their relative speed is the sum of their individual speeds (S1 + S2).

Meeting Time Formula

Meeting Time = (Initial Distance between them at the same start time) ÷ (Relative Speed).

Time-Distance Relation

Distance = Speed × Time. Always ensure the starting time is synchronized before applying relative speed.

Q69. Answer: (b) 60°

Given

3 cosec θ + 4 sin θ - 4√3 = 0

Concept

Use hit and trial method

Cosec 60° = 2/√3

sin 60° = √3/2

Calculation

3 cosec θ + 4 sin θ = 4 √3

put θ = 60° in L.H.S

3 × cosec 60° + 4 sin 60°

=> 3 × (2/√3) + 4 × (√ 3/2)

=> 2√3 + 2√3

=> 4√ 3

L.H.S = R.H.S

Q70. Answer: (c) Rs. 23,000

Shortcut Trick

Ratio of CP for Fridge (F) and Washing Machine (WM) based on same SP:

CP_F × (100 + 15) = CP_(WM) × (100 − 24)

CP_F × 115 = CP_(WM) × 76 => CP_F : CP_(WM) = 76 : 115

Total ratio parts = 76 + 115 = 191 units.

191 units = Rs. 38,200 => 1 unit = Rs. 200.

Cost price of Washing Machine = 115 × 200 = Rs. 23,000.

Therefore The correct answer is Rs. 23,000.

Alternate Method

Given: Total CP = Rs. 38,200, Profit on Fridge = 15%, Loss on Washing Machine = 24%, SP1 = SP2.

Formulas: SP = CP × (100 + P%) ÷ 100 | SP = CP × (100 − L%) ÷ 100

=> Let CP of Fridge be x and CP of Washing Machine be y.

=> x + y = 38,200

=> SP of Fridge = x × 1.15 and SP of Washing Machine = y × 0.76

=> 1.15x = 0.76y => x = (76 ÷ 115)y

=> (76 ÷ 115)y + y = 38,200

=> (191 ÷ 115)y = 38,200

=> y = (38,200 × 115) ÷ 191 = 200 × 115 = 23,000

Therefore The correct answer is Rs. 23,000.

Additional Information

Two same-SP articles

When two items are sold at the same price, the ratio of their Cost Prices is inversely proportional to their Selling Price percentage (100+P% or 100-L%).

Profit and Loss Calculation

Always calculate Profit or Loss on the Cost Price unless specified otherwise in the question.

Q71. Answer: (a) 180 cm²

Given

AC = (5AB - 4) cm

BC = (4AB + 4)cm

AB + BC + AC = 90 cm

Formula used

Area of triangle = √{s(s -a) (s -b) (s - c)}

where s is semi perimeter of triangle = (a + b + c)/2

a, b, and c are sides of triangle

Calculation

let the side AB is x cm

AB + BC + AC = 90

=> x + (4x + 4) + (5x - 4) = 90

=> 10x = 90

=> x = 9

BC = 4(9) + 4

=> 36 + 4 = 40

AC = 5(9) - 4

=> 45 - 4 = 41

a = 9, b = 40, c = 41

semi perimeter(s) = 90/2 = 45

Area of triangle = √{45 (45 - 9) (45 - 41) (45 - 40)}

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=> √{45 × 36 × 4 × 5}
=> √{3 × 3 × 5 × 6 × 6 × 2 × 2 × 5}
=> 3 × 5 × 6 × 2
=> 180 cm²
Therefore Area of triangle is 180 cm²

Q72. Answer: (d) 65

Given
a-24/a=5
To find
$a^2+64/(a^2)$
Calculation
a-24/a=5
=> $(a^2 - 24)/a = 5$
=> $a^2 - 24 = 5a$
=> $a^2 - 5a - 24 = 0$
=> $a^2 - 8a + 3a - 24 = 0$
=> $a(a - 8) + 3(a - 8) = 0$
=> $(a + 3) (a - 8) = 0$
a = -3, a = 8
so, $(8)^2 + [64/(8)^2]$
=> 64 + (64/64)
=> 64 + 1
=> 65
Therefore The value of $a^2+64/(a^2)$ is 65.

Q73. Answer: (d) 2√5 cm

Given
Perimeter of triangle = 20 cm
Ratio of equal side to base = 3 : 4
concept
Area of triangle = (1/2) × base × height
Area of triangle = √{s(s - a)(s -b)(s - c)}
where s is semi perimeter of triangle
s = (a + b + c)/2
where a, b and c are sides of triangle
Calculation
let the first side is 3x
second side is 4x
so, the third equal side will be 3x
3x + 4x + 3x = 20
=> 10x = 20
=> x = 2
sides are 6 cm i.e. (3 × 2); 8 cm i.e. (4 × 2) and 6 cm i.e. (3 × 2)
s = (6 + 8 + 6)/2
=> 20/2
=> 10
Area of triangle = √{10(10 - 6)(10 - 8)(10 - 6)}
=> √{10 × 4 × 2 × 4}
=> √{2 × 5 × 2 × 2 × 2 × 2 × 2}
=> 8√5
=> 8√5 = (1/2) × 8 × h

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=> h = 2√5 cm

Therefore The altitude of the triangle is 2√5 cm.

Shortcut TrickCalculation:

Ratio of equal side to base = 3 : 4

Sum of all sides = Perimeter of triangle

=> 3x + 3x + 4x = 20

=> 10x = 20

=> x = 2 cm

So, Equal sides = 3x = 3 × 2 = 6 cm

Base = 4x = 4 × 2 = 8 cm

Altitude of an isosceles triangle = 1/2 × √{4(equal side)² - (base)²}

=> 1/2 × √(4 × 62 - 82)

=> 1/2 × √80

=> 1/2 × 4√5 = 2√5 cm

Therefore The correct answer is 2√5 cm.

Q74. Answer: (a) 24 π cm²

Given

Radius of circle = Diagonal of square

Formula used

Area of circle = πr²

Area of square = (side)²

diagonal of square = √2 × side

Calculation

let the side of square is x cm

Area of square = (x)2 = 12 cm²

=> x = √12 cm

Now, diagonal of square = √2a = √24 cm

Radius of circle = √24 cm

Area pf circle = πr²

=> π(√24)²

=> 24π cm²

Therefore The area of the circle is 24π cm².

Q75. Answer: (b) 4

Given

cot A + cosec A = 2

To find

(9tan A+16 cosec A)/(5sin A+3tan A)

Identity used

cot A = cos A/sin A

cosec A = 1/sin A

cosec²A - cot²A = 1

(a² - b²) = (a - b)(a + b)

Calculation

cot A + cosec A = 2 ---- (1)

cosec2A - cot2A = 1

(cosec A - cot A)(cosec A + cot A) = 1

=> (cosec A - cot A) × 2 = 1

=> cosec A - cot A = 1/2 ---- (2)

subtract equation (2) from (1)

cot A + cosec A - cosec A + cot A = 2 - (1/2)

=> 2 cot A = (4 - 1)/2

=> 2 cot A = 3/2

cot A = 3/4

tan A = 4/3

cosec A = 5/4

sin A = 4/5

=> [9 × (4/3) + 16 × (5/4)]/[5 × (4/5) + 3 × (4/3)]

=> (12 + 20)/(4 + 4)

=> 32/8

=> 4

Therefore The value of (9tan A+16 cosec A)/(5sin A+3tan A) is 4

Q76. Answer: (a) Rajasthan

The correct answer is Rajasthan.

Key Points

• Chulia waterfall on the Chambal river in Chittorgarh district of Rajasthan.

• The Chuliya water is 5 km upstream of the Chambal river near Bhainsrorgarh.

Additional Information

• Some famous Waterfall of the World:

• Angel Waterfalls: Venezuela, with a height of 979 m and is the highest waterfall in the world.

• Victoria Waterfalls: it is on the course of the Zambezi river, which is located on the border of Zambia and Zimbabwe.

• Niagara Waterfalls: It is located on the border of the USA and Canada.

• The height of Niagara Falls is 57 m.

Q77. Answer: (d) 1759

The correct answer is 1759.

Key Points

• The Battle of Bedara was fought on 25 November 1759 between the British and the Dutch Army.

• The Dutch army was decisively defeated by the British and after that, they left India and went to Indonesia.

Additional Information

• Dutch East India Company

• Cornelis-de-Hartmann was the first Dutch Citizen to reach India via Cape of Good Hope in 1596 AD.

• 1602 AD, the first Dutch Company United East India Company was created and its first permanent trading post in Indonesia.

• Dutch had a monopoly on the spice trade in India in the 17th century.

• First Dutch Governor: Pieter Both.

• In India they established the first factory in Muslipatnam in 1605, followed by Pulicat in 1610, Surat in 1616, Bimilipatam in 1641, and Chinasurah in 1653.

• The factory at Chinasurah was the headquarters for all the Dutch agencies and factories in Bihar, Bengal, Orissa, and Bangladesh.

• When they established a factory in Pulicat in 1610 it became their main centre of activities. It was known as Fort Geldria.

• The Battle of Bedara(1759) was fought between the English and Dutch armies in Bengal India.

• In this battle, the English forces defeated the Dutch Forces and helped the British East India Company to assert their supremacy in India.

Q78. Answer: (b) West Bengal

The Correct Answer is West Bengal.

Key Points

• Neora Valley National Park is situated in the Kalimpong district, West Bengal.

• It was established in 1986.

• It spreads over an area of 88 km².

• The park reaches up to an elevation of over 3500 meters above sea level.

• It is characterized by tropical subtropical, temperate and alpine vegetation.

• The forests consist of rhododendron, bamboo, oak, ferns, sal, etc.

Additional Information

• West Bengal has six national parks -

• Buxa National Park,

• Gorumara National Park,

• Neora Valley National Park,

• Singalila National Park,

• Sunderban National Park,

• Jaldapara National Park.

Q79. Answer: (d) 12.7%

The correct answer is 12.7%.

• The government proposes to spend Rs 30,42,230 crore in 2020-21, which is 12.7% higher than the revised estimate of 2019-20.

• The government has assumed a nominal GDP growth rate of 10% (i.e., real growth plus inflation) in 2020-21.

• The nominal growth estimate for 2019-20 was 12%.

Source: Click

Additional Information

• The Union Budget was structured on the overall theme of “Ease of Living".

• The nominal growth rate of GDP is expected to be 10% in 2020-21.

• A total of Rs. 64,180 crores to be spent on healthcare.

• Defence gets Rs 3.37 lakh crore as the defence budget.

• The allocation for higher education is Rs. 39466.52 crores, up from Rs. 38317.01 crore the previous year.

• As compared to the previous year, there has been a rise of around Rs.1149.51 crore.

• A new scheme named, Education Quality Up-gradation and Inclusion Program (EQUIP), has been envisaged by the Department of Higher Education, MHRD.

• TEQIP, the World Bank assisted Technical Education Quality Improvement Program, has been allocated Rs. 650 crore.

Q80. Answer: (d) Gujarat

The correct answer is Gujarat

• Gujarat government has announced to set up India’s first Lithium refinery which will process Lithium ore to produce battery-grade material.

• Manikaran Power Limited, one of the country’s largest power trading and renewable energy company will be investing over Rs 1,000 crore to set up this refinery.

• The company are currently exploring a couple of places in Sanand and Dholera to set up this refinery.

Additional Information

• Lithium is a rare element not usually found in India.

• The company will be importing Lithium ore from Australia and will be processing it in a refinery.

• In 2019, Manikaran Power had collaborated with Australian firm Neometals to tap the Mount Marion Lithium mine in Western Australia.

• TDS Lithium-Ion Battery Gujarat Private Ltd is India’s first Lithium-ion battery manufacturing plant in Gujarat which is being set up jointly between Toshiba Corporation, DENSO Corporation and Suzuki Motor Corporation.

• The foundation stone for the Rs 1135 crore plant was laid in September 2017 by Prime Minister Narendra Modi and his Japanese counterpart Shinzo Abe.

• The plant is expected to become operational by January or February 2021.

Q81. Answer: (a) Holi

The correct answer is Holi.

• Holi is celebrated in the last month of the Hindu calendar.

• It is celebrated in Phalguna month.

Important Points

• Makar Sankranti is one of the few traditional Hindu festivals that are observed as per solar cycles. It is the beginning of the month of Magh.

• Raksha Bandhan is celebrated during full moon day or Purnima in Shravana month.

• Deepawali is celebrated every year on the 15th lunar day of the Kartik month of the Hindu calendar.

Additional Information

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Hindu Calendar	Gregorian Calendar
Chhaitra	March 21 – April 20
Vaishakha	April 21-May 21
Jyeshtha	May 22-June 21
Ashadha	June 22- July 22
Shravana	July 23-August 22
Bhadra	August 22-September 22
Ashwin	September 23-October 22
Kartika	October 23-November 21
Agrahayana	November 22-December 21
Pausha	December 22-January 20
Magha	January 21- February 19
Phalguna	February 20-March 20/21

Q82. Answer: (a) kidney

The correct answer is kidney.

• The nephron is the microscopic structural and functional unit of the kidney.

Additional Information

• It is composed of a renal corpuscle and a renal tubule.

• The renal corpuscle consists of a tuft of capillaries called a glomerulus and an encompassing Bowman's capsule.

• The renal tubule extends from the capsule.

• The capsule and tubule are connected and are composed of epithelial cells with a lumen.

• A healthy adult has 1 to 1.5 million nephrons in each kidney.

• Structure of Nephron-:

Q83. Answer: (b) Magnetic ink character recognition

The correct answer is Magnetic ink character recognition.

• MICR is used by the banking industry to ease the processing and clearance of cheques and other documents.

• Numbers and characters found on the bottom of checks are printed using the Magnetic Ink.

• When a document that contains this ink needs to be read, it passes through a machine, which magnetizes the ink and then translates the magnetic information into characters.

Additional Information

• A card reader is a data input device that reads and writes data from a card-shaped storage medium.

• A card reader is a hardware device.

• Non-impact printers print the characters without using ribbons.

• These printers print a complete page at a time so they are also called page printers.

• Optical Mark Reader (OMR) can be considered as a Scanning device.

• Optical mark recognition is the process of capturing human-marked data from document forms such as surveys and tests.

• They are used to read questionnaires, multiple-choice examination papers in the form of shaded areas.

Q84. Answer: (a) World Food Programme

The correct answer is World Food Programme.

• The 2020 Nobel Peace Prize has been awarded to the World Food Programme (WFP), a United Nations (UN) agency.

Additional Information

Noble Prize 2020

Category	Awardee	Work
Physics	Roger Penrose, Reinhard Genzel & Andrea Ghez	For the understanding of the universe, including work on black holes.

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Medicine	Harvey J. Alter, Michael Houghton & Charles M. Rice	For the discovery of the hepatitis C virus.
Chemistry	Emmanuelle Charpentier & Jennifer A. Doudna	For the development of CRISPR-Cas9, a method for genome editing.
Peace	The World Food Programme	For its efforts to eradicate hunger.
Literature	Louise Gluck	Her distinctive way of expression makes individual existence universal.
Economics	Paul R. Milgrom & Robert B. Wilson	For improvements to auction theory and inventions of new auction formats.

Q85. Answer: (a) It is the rate of interest payable by commercial banks to RBI

The correct answer is It is the rate of interest payable by commercial banks to RBI.

Key Points

• Bank Rate refers to the official interest rate at which RBI will provide loans to the banking system which includes commercial/cooperative banks, development banks etc.

• Such loans are given out either by direct lending or by rediscounting (buying back) the bills of commercial banks and treasury bills. Thus, the bank rate is also known as the discount rate.

• The bank rate is used as a signal by the RBI to the commercial banks on RBI's thinking of what the interest rates should be.

• When RBI increases the bank rate, the cost of borrowing for banks rises and this credit volume gets reduced leading to a decline in the supply of money. Thus, an increase in the Bank rate reflects the tightening of RBI monetary policy.

• A decrease in the Bank rate reflects the loosening of RBI monetary policy.

Additional Information

• Cash Reserve Ratio (CRR):

• The RBI (Amendment) Bill, 2006, empowers RBI to prescribe CRR–Cash that banks deposit with the RBI without any floor rate or ceiling rate.

• Statutory Liquidity Ratio (SLR):

• It is the ratio of a liquid asset, which all commercial banks have to keep in the form of cash, gold, and unencumbered approved securities equal to not more than 40% of their total demand and time deposit liabilities (ranges is 25-40%).

• Repo Rate:

• It is the rate, at which RBI lends short-term money to the bank against securities.

• Reverse Repo Rate:

• It is the rate, at which banks park short-term excess liquidity with the RBI.

Q86. Answer: (c) Android

The correct answer is Android.

• An Open-source Operating System is the Operating System in which source code is visible publically and editable.

• The operating system is a collection of programs that controls the overall operations of the computer.

• Android is an open-source operating system.

Additional Information

• Other Examples of operating systems are:

• Linux.

• Unix.

• DOS.

• Windows.

• Ubuntu.

• Embedded operating system.

• OpenBSD.

• Mac OS.

Q87. Answer: (d) Arunachal Pradesh

The correct answer is Arunachal Pradesh.

• The Khadi and Village Industries Commission(KVIC) has commissioned a Monpa handmade paper making unit in Arunachal Pradesh.

• The unit was inaugurated by KVIC Chairman - Shri Vinai Kumar Saxena in the presence of local people and officials.

Additional Information

• The Monpa Handmade Paper of Arunachal Pradesh is a 1000-year old heritage art.

• The art of making this paper became an integral part of local custom and culture in Tawang in Arunachal Pradesh.

• It was once produced in every household in Tawang and it was a major source of livelihood for the locals.

• However, the handmade paper industry almost disappeared in the last 100 years and KVIC planned to revive this ancient art.

• The fine-textured handmade paper is called Mon Shugu in the local dialect.

• The paper has great historic and religious significance as it is the paper used for writing Buddhist scriptures and hymns in monasteries.

• The Monpa handmade paper will be made from the bark of a local tree called Shugu Sheng, which has medicinal values too.

• The Monpa tribe used to sell these papers to countries like Tibet, Bhutan, Thailand, and Japan as no paper-making industry existed in these countries at that time.

• However, the local industry gradually began declining and the indigenous handmade paper was taken over by inferior Chinese paper.

Q88. Answer: (d) Polyvinyl Chloride

The correct answer is Polyvinyl Chloride.

• PVC stands for Poly Vinyl Chloride.

• It is a plastic that gets deformed easily when heated and can be moulded again into other forms.

• It is used to make pipes, containers, various types of toys, etc.

• It is thermoplastic.

Additional Information

• Thermosetting plastics:

• Plastic is also a polymer like synthetic fiber.

• There are two types of plastics: thermoplastics and thermosetting plastics.

• Thermosetting plastics are the ones that when moulded once cannot be softened by heating.

• It is used in making kitchenware, floor tiles, electrical switches, etc.

Q89. Answer: (c) Glaucoma

The correct answer is Glaucoma.

Key Points

• Glaucoma is an eye condition caused by damaging the optic nerve.

• Due to increased eye pressure, the optic nerve gets damaged.

• If left untreated it can lead to permanent blindness.

• Initially, a few blind spots are observed in peripheral or central vision.

• A regular eye checkup and a healthy lifestyle can prevent that damage from Glaucoma.

Additional Information

• Gonorrhoea is a sexually transmitted infection caused by the bacterium Neisseria gonorrhoeae.

• Psoriasis is a skin disease that causes red, itchy scaly patches, most commonly on the knees, elbows, trunk and scalp.

• Vitiligo is a skin disease which causes loss of skin colour.

Q90. Answer: (b) Mangsha Dhura Pass

The correct answer is Mangsha Dhura Pass.

• Mangsha Dhura

• The pass which connects Uttarakhand-Tibet is known for landslides.

• The pilgrims for Manasarovar cross this route.

• It's located in the Kuthi Valley.

Additional Information

• Baralacha pass:

• Bara-lacha la also known as Bara-lacha Pass, or Bārā Lācha La is a high mountain pass in the Zanskar range.

• It connects Lahaul district in Himachal Pradesh to Leh district in Ladakh.

• The Leh–Manali Highway traverses the pass.

• Bomdilia pass:

• Situated at an altitude of 4331 m near the western boundary of Arunachal Pradesh in the Greater Himalayas.
• This pass connects Arunachal Pradesh with Lhasa.
• Nathu La Pass connects Sikkim with China.

Q91. Answer: (b) 142

The correct answer is 142.

Key Points

• Norway retained its top position on the World Press Freedom Index, 2020.
• The World Press Freedom Index:
• It is published by an NGO, 'Reporters Sans Frontieres' or 'Reporters without Borders.'
• India has ranked 142 out of 180 countries in the 2020 index.

Additional Information

• World Press Freedom Index 2019:
• Norway was ranked 1st in the list.
• India ranked 140th.

Q92. Answer: (d) Poland

The correct answer is Poland.

• Polish teenager Iga Swiatek completed a stunning rise by becoming the lowest-ranked woman to win the French Open after beating American Sofia Kenin.

Additional Information

• Rafael Nadal is a professional tennis player from Spain.
• He won the men's 2020 French open title.
• French Open is the premier clay court tennis championship tournament in the world.

Q93. Answer: (a) 1915

The correct answer is 1915.

Key Points

• In January 1915, Gandhiji returned to India after two decades of residence abroad.
• His full name was Mohandas Karamchand Gandhi.
• He was born on October 2, 1869, in Porbandar, India, and died on January 30, 1948, in Delhi.
• He was a lawyer, politician, social activist, and writer who became the leader of the nationalist movement against the British rule of India.
• Gopal Krishna Gokhale was Gandhiji's acknowledged political mentor.

Additional Information

• To commemorate this day we celebrate this day as Pravasi Bharatiya Divas.
• January 9 is annually celebrated as the Pravasi Bharatiya Divas.
• After arriving in India, Mahatma Gandhi successfully organized Satyagraha Movements in various places.

Q94. Answer: (d) Rani Rampal

The correct answer is Rani Rampal.

Important Points

• Rani Rampal is an Indian field hockey player from Haryana.
• She was the first female hockey player to have won the Rajiv Gandhi Khel Ratna Award.

Key Points

• She is currently the Captain of the Indian Women's Hockey Team.
• The Indian women's Hockey team captain Rani Rampal is the World Games Athlete of the Year 2019, thus becoming the first-ever hockey player to win the prestigious World Games Athlete of the Year Award.
• In 2020 the Government of India honoured her with the Padma Shri.
• Rani played in the Champion's Challenge Tournament held in Kazan, Russia in June 2009 and powered India to a win by scoring 4 goals in the finals.
• At the age of 15, she was the youngest player in the national team which participated in the 2010 World Cup.

Additional Information

• List of all the sportsperson 2021

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Awardee	Sports
Neeraj Chopra	Javelin Throw
Ravi Kumar	Wrestling
Lovlina Borgohain	Boxing
Manpreet Singh	Hockey
Sreejesh PR	Hockey
Avani Lekhara	Shooting
Sumit Antil	Javelin Throw
Pramod Bhagat	Badminton
Krishna Nagar	Badminton
Manish Narwal	Shooting
Mithali Raj	Cricket
Sunil Chhetri	Football

Q95. Answer: (c) Habeas corpus

The correct answer is Habeas corpus.

Key Points

• Habeas corpus means to produce the body before the Court.

• Habeas corpus is a Latin term which means ‘to have the body of’.

• Under this the court issues an order to a person who has detained another person, to produce the body of the latter before it.

• The court then examines the cause and legality of detention.

• This writ is a bulwark of individual liberty against arbitrary detention.

• The writ of habeas corpus can be issued against both public authorities as well as private individuals.

Additional Information

• Five kinds of writs are issued for enforcing the fundamental rights of the citizens.

• Habeas Corpus

• Mandamus - We command.

• Prohibition - To forbid.

• Certiorari - To be certified’ or ‘To be informed.

• Quo-Warranto- By what authority or warrant.

Q96. Answer: (a) Syed Mahmud Hossain

The correct answer is Syed Mahmud Hossain.

Key Points

• Bangladesh has appointed Syed Mahmud Hossain as the new Chief Justice.

• Hossain is the 22nd chief justice of Bangladesh.

Additional Information

• Sheikh Hasina was elected as the Prime Minister of Bangladesh for the fourth time and third consecutive time.

• She was the Prime Minister from 1996-2001, 2009-2014, 2014-2019, 2019-Current

• She belongs to Awami League.

• Abdul Hamid Lahori was a historian and traveller who later became a court historian of Shah Jahan.

Q97. Answer: (c) Fazilka to Mana

The correct answer is Fazilka to Mana.

• NH 7 connects Dehradun, Rishikesh, Devaprayag, Rudraprayag, Karnaprayag, Chamoli, Badrinath, Mana at the Indo/Tibet border in the state of Uttarakhand.

• It includes Fazilka (Punjab)to Mana (Uttarakhand).

Additional Information

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• India's biggest national highway from Kashmir to Kanyakumari NH-44 passes through Lalitpur, connecting major cities of India.

• National Highway 27 (NH 27), an East-West National highway in India that starts from Porbandar and terminates in Silchar, the highway passes through the states of Gujarat, Rajasthan, Madhya Pradesh, Uttar Pradesh (Kanpur), Bihar, West Bengal, Assam.

Q98. Answer: (b) Satyendra Singh

The correct answer is Satyendra Singh

Key Points

• Satyendra Singh has been honoured with the Tenzing Norgay National Adventure Award 2019.

• He is a para-swimmer who hails from the Bhind district.

• He is the first disabled sportsperson in the country to receive this prestigious honour.

• Achievements

• He won a gold medal for the country at the Olympic Swimming NSW 2017 State Open Championships in Sydney, Australia.

• In May 2017, Satendra successfully crossed the open water sea-swimming feet of 33 km.

• He crossed the English Channel in 2018.

• He became the first Asian disabled swimmer to cross the 42-km Catalina Channel in the US in just 11:34 hours in 2019.

• He was awarded the Vikram Award by the MP government in 2014.

Additional Information

• Tenzing Norgay National Adventure Award

• It is the prestigious national award for adventure sports in India, equivalent to the Arjuna Award.

• The award is given every year on the occasion of National Sports Day - August 29.

• It was named after Tenzing Norgay, a Nepali- Indian Sherpa Mountaineer, who was the first to reach the summit of Mount Everest along with Edmund Hillary on 29th May 1953.

• The award is given in 4 categories

• Land Adventure

• Air Adventure

• Water Adventure

• Life Time Achievement

• The awardees are given prize money of Rs. 5 lakh along with statuettes, and certificates.

Q99. Answer: (b) Nagaland

The correct answer is Nagaland.

Key Points

• The 20th edition of the Hornbill Festival began on December 1, 2019.

• It is also called the 'Festival of Festivals'.

• This day was also the 57th Statehood Day of Nagaland.

Additional Information

• This festival was celebrated for the promotion of tourism and for the exhibition of the state’s tradition and culture in which the Naga tribe showcased their art.

• The festival was celebrated for 10 days straight.

• The host of the opening ceremony of the festival was Governor - Ravindra Narayana Ravi and Chief Minister of Nagaland-Neiphiu Rio.

• Nagaland Capital-Kohima

• Note:

• The current(Feb 2022) Governor of Nagaland is Jagdish Mukhi.

Q100. Answer: (a) Ayushmann Khurrana

The correct answer is Ayushmann Khurrana.

Key Points

• UNICEF India has announced Ayushmann Khurrana as its celebrity advocate for children’s rights campaign, For Every Child.

• Khurrana will support UNICEF towards ending violence against children.

• He will work towards this initiative in India and joins the likes of former football star David Beckham, who works on this campaign globally.

Additional Information

• Basic Information about UNICEF:

- Founded: 1946.
- Headquarter: New York.
- Parent Agency: United Nations.
- Key Person: Catherine Russell

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