SSC CHSL Previous Paper 23 (Held On: 16 Oct 2020 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. In the sentence, identify the segment which contains a grammatical error.

I learnt to adapt myself quickly to new schools because we moved to new places quite frequent.

(a) I learnt to adapt myself quickly
(b) to new schools
(c) quite frequent
(d) we moved to new places

Q2. Select the most appropriate meaning of the given idiom.

Once in a blue moon

(a) Happening only once in a lifetime
(b) An incident that is scary
(c) Happening only rarely
(d) An unforgettable experience

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

ROWDY

(a) Boisterous
(b) Charming
(c) Calm
(d) Amenable

Q4. Select the most appropriate synonym of the given word.

BARREN

(a) Fruitful
(b) Bountiful
(c) Fertile
(d) Desolate

Directions

Direction: 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.

To close the day on a high note, we decided to spend the rest of (1) ____ evening at a 100-year-old historic watering hole in downtown Juneau. We wanted to (2) __ our bear sightings and how it feels to be in the wild. While raising a toast and reminiscing (3) __ our time in the woods, I felt a deeper connection with nature. It was a (4) __ experience to walk for miles with no particular reason or intention other than absorbing (5) ____ solitude of the jungle, open to the sky.

Q5. Select the most appropriate option for blank No. 1.

(a) theirs
(b) their
(c) ours
(d) our

Q6. Select the most appropriate option for blank No. 2.

(a) celebrated
(b) celebrate
(c) celebrates
(d) celebration

Q7. Select the most appropriate option for blank No. 3.

(a) for
(b) with
(c) about
(d) in

Q8. Select the most appropriate option for blank No. 4.

(a) sincere
(b) profound
(c) comical
(d) dismal

Q9. Select the most appropriate option for blank No. 5.

(a) much
(b) some
(c) the
(d) a

Q10. Select the most appropriate ANTONYM of the given word.

CONCEALED

(a) Hidden
(b) Masked
(c) Revealed
(d) Discussed

Q11. Select the most appropriate word to fill in the blank.

There was a range of _____ that kept tourists engaged during the International Film Festival in Goa.

(a) activities
(b) conversions
(c) employments
(d) moments

Q12. Select the correct indirect form of the given sentence.

Roopa said to me, "Please accompany me to the market."

(a) Roopa said please accompany me to the market.
(b) Roopa said to me that you must accompany me to the market.
(c) Roopa is requesting me to accompany her to the market.
(d) Roopa requested me to accompany her to the market.

Q13. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Some such common events that bring us happiness for a short time include passing an exam, getting a job, going on a vacation or buying a dream house.

B. Happiness is more difficult to achieve than peace as we keep striving for it daily.

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C. Peace, on the other hand, is sustainable for many years, costs less energy, and doesn't depend on external events such as these.

D. Events that we struggle for in our daily lives to bring us happiness only come randomly, stay for a short time and subside.

(a) BACD
(b) ACDB
(c) BCAD
(d) BDAC

Q14. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. He flew down, searched for her until he found her and then asked her to become his wife.

B. A hawk flying about in the sky one day decided that he would like to marry a hen whom he often saw on earth.

C. The hawk was delighted and flew away after giving her a ring as an engagement present, and telling her to take good care of it.

D. She at once gave her consent on the condition that he would wait until she could grow wings like his, so that she might also fly high.

(a) BDCA
(b) ADCB
(c) BCDA
(d) BADC

Q15. Select the correct passive form of the given sentence.

We are arranging an exhibition of sarees from different states of India at Dilli Haat.

(a) An exhibition of sarees from different states of India will be arranged by us at Dilli Haat.
(b) An exhibition of sarees from different states of India is being arranged by us at Dilli Haat.
(c) An exhibition of sarees from different states of India has been arranged by us at Dilli Haat.
(d) An exhibition of sarees from different states of India was arranged by us at Dilli Haat.

Q16. Select the most appropriate meaning of the given idiom.

To leave someone in the lurch.

(a) To come to compromise with someone
(b) To put someone at ease
(c) To desert someone in his difficulties
(d) Constant source of annoyance to someone

Q17. Select the correct one word for the given group of words:

Someone who freely gives money and help to people who need it

(a) Philologist
(b) Philanthropist
(c) Impressionist
(d) Receptionist

Q18. 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’.

We've had a long day. We should rest now, shouldn't we?

(a) won't we
(b) No improvement
(c) haven't we
(d) hadn’t we

Q19. In the sentence identify the segment which contains a grammatical error.

The environment protection policy need to become stricter if we wish to combat climate change.

(a) if we wish to
(b) The environment protection policy

(c) need to become stricter
(d) combat climate change

Q20. 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'.

Rohit Sharma have declared the best batsman of 2019.

(a) is declare
(b) has been declared
(c) has declare
(d) No improvement

Q21. Select the most appropriate ANTONYM of the given word.

ADMONISH

(a) Belittle
(b) Attack
(c) Harden
(d) Applaud

Q22. Select the most appropriate word to fill in the blank.

I had a stroke at an early age, but what I thought was a great _____ at that time changed my life for the better.

(a) moodiness
(b) lowliness
(c) setback
(d) significance

Q23. Select the INCORRECTLY spelt word.

(a) Balloon
(b) Bunglow
(c) Irritant
(d) Adulteration

Q24. Select the word which means the same as the given group of words.

Arrangement of events or dates in the order in which they happen

(a) Archaeology
(b) Ecology
(c) Chronology
(d) Geology

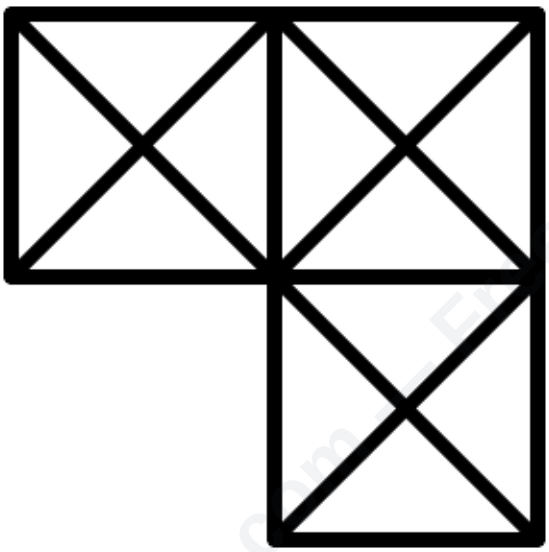
Q25. Select the INCORRECTLY spelt word.

(a) Existence
(b) Commitment
(c) Distance
(d) Arguement

GENERAL INTELLIGENCE

Q26. Find the number of triangles in the given figure.

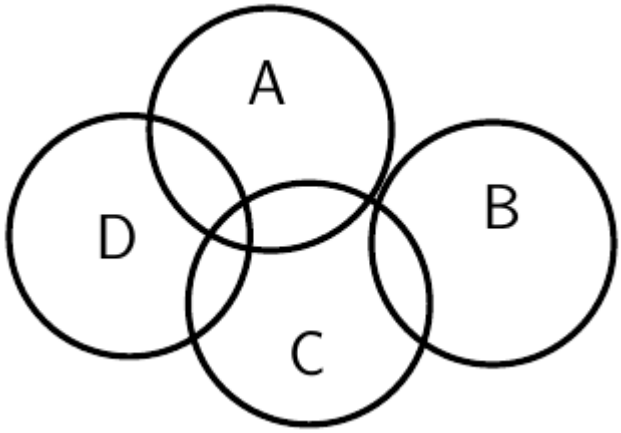
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(a) 30
(b) 18
(c) 29
(d) 37

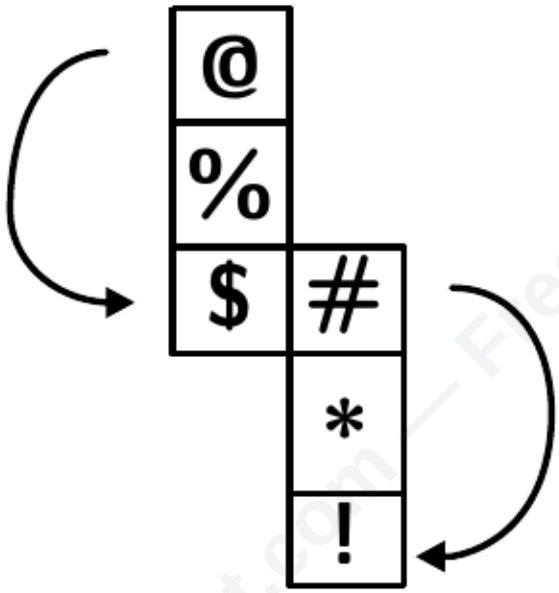
Q27. In a certain code language, RDHKLP is written as QCJMKO. How will ROHINY be written as in that language?
(a) QNJLNX
(b) QNIJMX
(c) QNJKCX
(d) QNJKMX

Q28. In the given Venn diagram, different areas denote different types of players. 'A' denotes 'tennis players', 'B' denotes 'badminton players', 'C' denotes 'hockey players' and 'D' denotes 'football players'. Which area represents the group of all types of sports players?



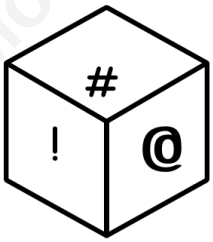
(a) C
(b) B
(c) D
(d) A

Q29. Select the answer figure that can be formed by folding the given sheet along the lines.

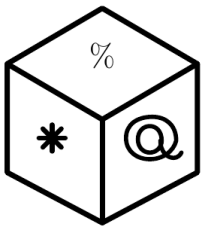


@ will be opposite of ($)
will be opposite of (!)
% will be opposite of (*)

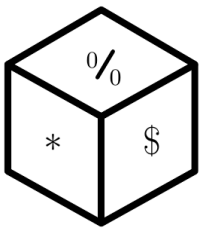
(a)



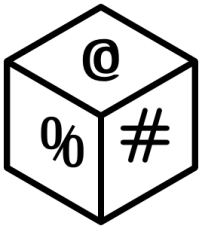
(b)



(c)



(d)



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Q30. In a certain code language, 458 is written as 'she is good', 742 is written as 'that is cow' and 841 is written as 'good is bad'. Which number denotes the word 'bad' in that language?

(a) 4
(b) 8
(c) 2
(d) 1

Q31. Which two signs or numbers should be interchanged to make the given equation correct?

(56 ÷ 7) + 5 × 8 – 12 = 60

(a) × and +
(b) • and ÷
(c) 8 and 12
(d) 7 and 5

Q32. Arrange the following words in a logical and meaningful sequence.

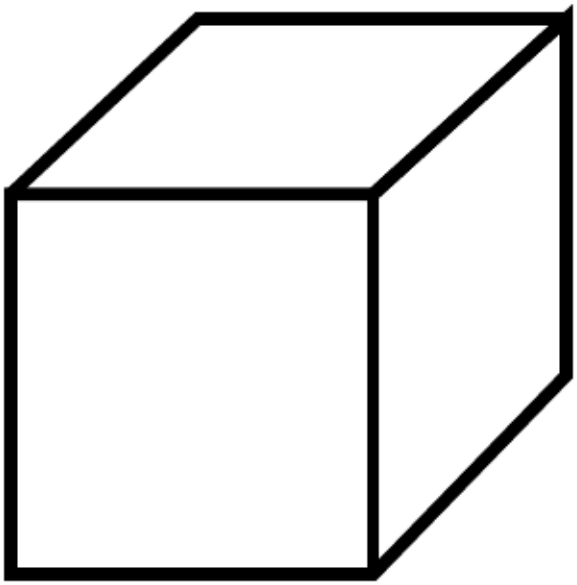
1. Paragraph
2. Sentence
3. Letter
4. Phrase
5. Word

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

Q33. After giving a discount of 25% on the marked price, a laptop is sold at Rs. 22,500. What is its marked price?

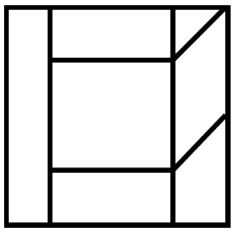
(a) Rs. 32,000
(b) Rs. 29,000
(c) Rs. 36,500
(d) Rs. 30,000

Q34. Select the answer figure in which the question figure is embedded. (Rotation is not allowed)

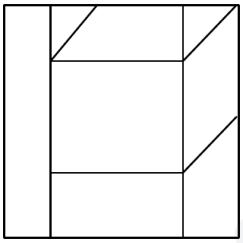


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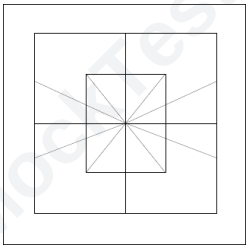
(a)



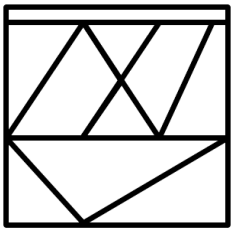
(b)



(c)



(d)



Q35. Select the combination of letters that when sequentially place from left to right in the blanks of the given series will complete the series.

_om_onm_mnon_omn_n

(a) moomm
(b) nnmmo
(c) nmomn
(d) mnomo

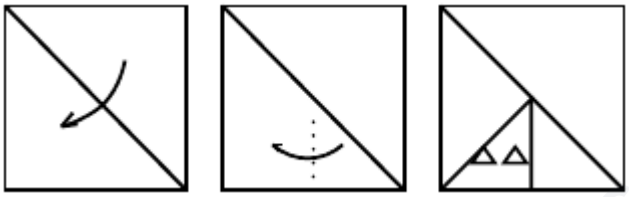
Q36. Select the option that is related to the third term in the same way as the second term is related to the first term.

BUS : AWP :: CAR : _____

(a) CAB
(b) BCO
(c) BCD
(d) BUD

Q37. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the question figure. Select the figure from the answer figures that would most closely resemble the unfolded paper.

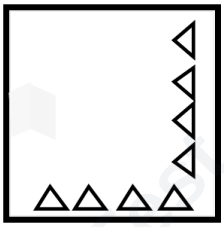
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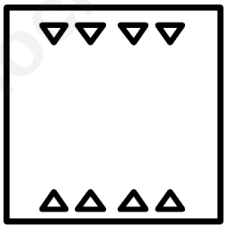
(a)



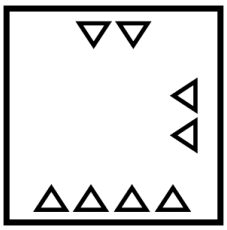
(b)



(c)



(d)



Q38. Identify the letter that does NOT belong to the following series.

I, L, O, S, U, X

(a) L
(b) X
(c) S
(d) O

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

236 : 263 :: 768 : ?

(a) 788
(b) 778
(c) 876
(d) 786

Q40. 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:

1. Some bananas are mangoes.

2. Some mangoes are cats.

Conclusions:

I. All cats are bananas.

II. Some cats are mangoes.

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

Q41. If in a coded language 'UNIQ' is written as 'SJCI', then in the same coded language, 'MODE' will be written as
(a) KKXW
(b) KKXT
(c) KKXV
(d) KKXX

Q42. Select the letter that can replace the question mark (?) in the following series.

A, D, C, G, F, K, J, ?
(a) T
(b) O
(c) L
(d) P

Q43. Select the number that can replace the question mark (?) in the following series?

1, 2, 4, 7, 13, 24, 44, ?
(a) 81
(b) 63
(c) 112
(d) 73

Q44. Select the option that is related to the third term in the same way as the second term is related to the first term

PTR : R38 :: IMK : ?
(a) M20
(b) K20
(c) M24
(d) K24

Q45. Select the number that can replace the question mark (?) in the following series.

7, 16, 24, 31, 37, ?
(a) 45
(b) 42
(c) 58
(d) 39

Q46. Pointing to a photograph, Mohan said, "The person who is standing with my mother in the photograph is the only son of my father". How is the person related to Mohan?
(a) Nephew
(b) Cousin
(c) Mohan himself
(d) Father

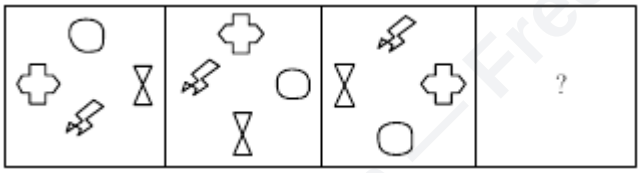
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Q47. Select the number that will replace the question mark (?) in the following series.

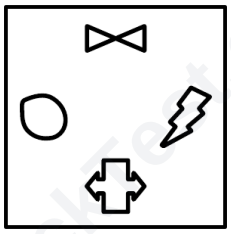
4, 5, 9, 18, 34, 59, ?, 144, 208, 289

(a) 95
(b) 88
(c) 89
(d) 90

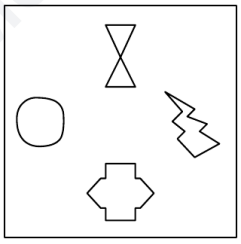
Q48. Select the answer figure that can replace the question mark (?) in the following series.



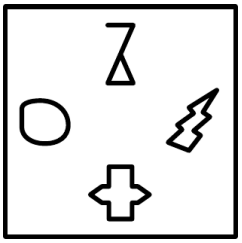
(a)



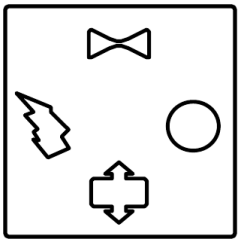
(b)



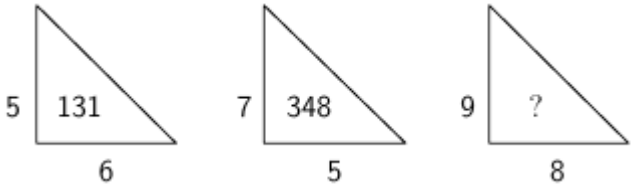
(c)



(d)



Q49. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

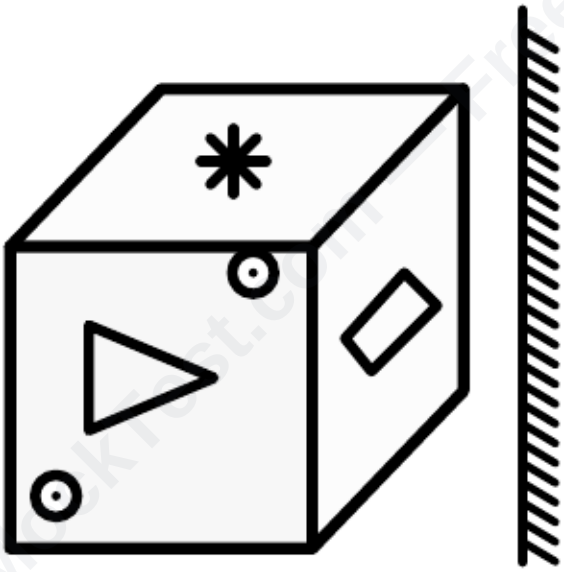


(a) 521

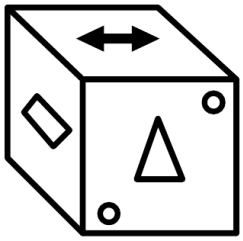
(b) 737
(c) 729
(d) 396

Q50. If a mirror is placed on line PQ in the question figure, then which of the answer figure is correct image of the question figure?

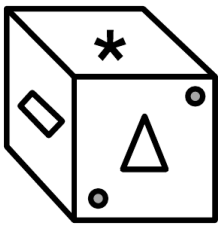
Question Figure:



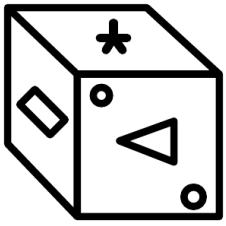
(a)



(b)

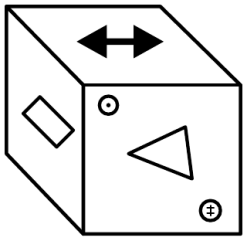


(c)



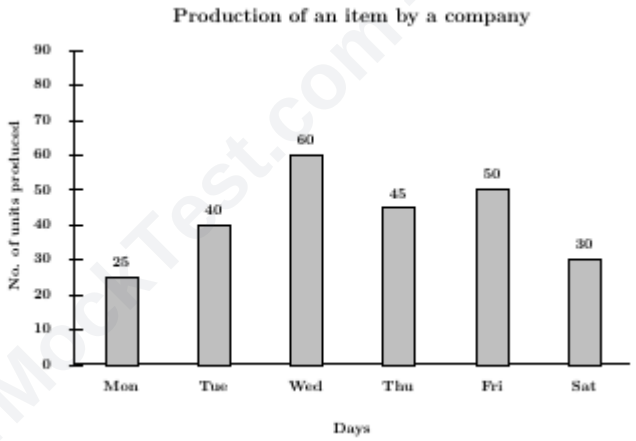
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(d)



QUANTITATIVE APTITUDE

Q51. Study the following graph and answer the question based on the graph.



What was the percentage decline in the production from Friday to Saturday?

(a) 10%
(b) 40%
(c) 66(2/3)%
(d) 20%

Q52. Salma buys an article and then sells if for Rs. 810. If she loses 10%, then at what price should she sell it to gain 4%?

(a) Rs. 864
(b) Rs. 729
(c) Rs. 936
(d) Rs. 900

Q53. In how may years will a sum of Rs. 320 amount to Rs. 405 if interest is compounded at 12.5% per annum?

(a) 2(1/2) years
(b) 2 years
(c) 1 year
(d) 1(1/2) years

Q54. The area of a square park is $16x^2 + 8x + 1$. What is the length of the park?

(a) (4x + 1) units
(b) (4x - 1) units
(c) $(4x + 1)^2$ units
(d) 4x units

Q55. In a circle of radius 10 cm, PQ and RS are two parallel chords of lengths 16 cm and 12 cm, respectively. What is the distance between the chords if they are on opposite sides of the centre?

(a) 14 cm
(b) 2 cm
(c) 6 cm

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(d) 8 cm

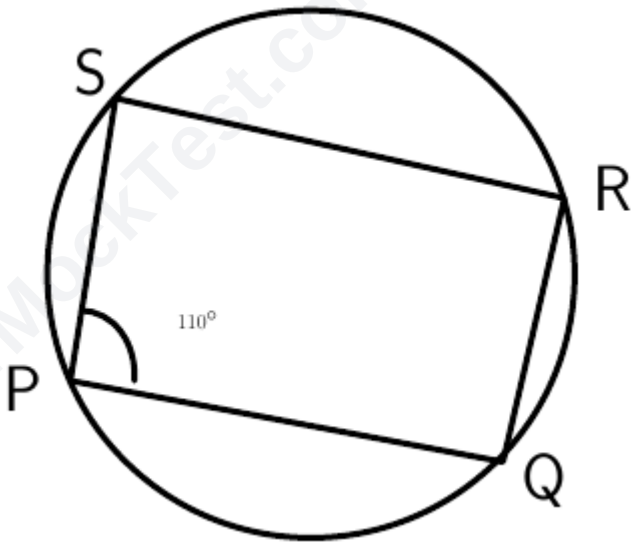
Q56. The value of ? in sin 20° cos 70° + sin 70° cos 20° = ? is:

(a) 0
(b) 1/√3
(c) 1
(d) 2

Q57. The value of ? in 10 – [121 ÷ (11 × 11) – (- 4) – {3 – (8 – 1)}] = ? is:

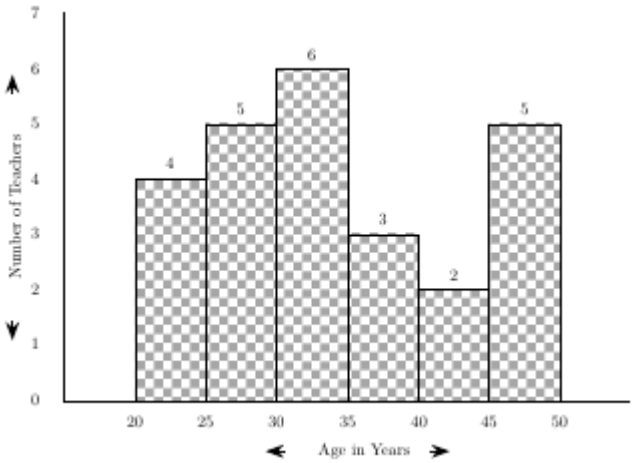
(a) 19
(b) 0
(c) 1
(d) -1

Q58. In the given figure, PQRS is a cyclic quadrilateral. What is the measure of the angle PQR if PQ is parallel to SR?



(a) 80°
(b) 100°
(c) 110°
(d) 70°

Q59. Study the following graph and answer the question based on the graph.



How many teachers are aged 45 years or more but less than 50 years?

(a) 3
(b) 6
(c) 2
(d) 5

Q60. The angles of a triangle are in the ratio of 3 : 4 : 8. The triangle is

(a) obtuse angled
(b) right angled
(c) acute angled
(d) isosceles

Q61. (ax + by) is a factor of:

(a) $a^2x^2 + 2ab + b^2y^2$
(b) a2x2 + 2ab + b2y2x
(c) a2x2 + 2abxy + b2y2
(d) a2x2 + 2ab - b2y2

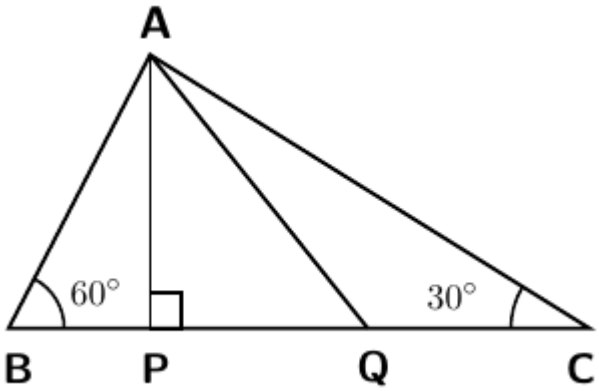
Q62. A mobile phone was sold for Rs. 31,500 after giving two successive discounts of 30% and 10% respectively. What was the marked price of the mobile?

(a) Rs. 52,500
(b) Rs. 35,000
(c) Rs. 50,000
(d) Rs. 55,000

Q63. If tan4A = cot(A – 20°), 0° < θ < 90°, then the value of A is:

(a) 5°
(b) 80°
(c) 22°
(d) 14°

Q64. In the given figure, AP is perpendicular to BC, and AQ is the bisector of angle BAC. What will be the measure of angle PQA?



(a) 30°
(b) 60°
(c) 50°
(d) 75°

Q65. A and B separately can build a wall in 12 and 16 days, respectively. If they work for 1 day alternatively, starting with A, in how many days will the wall be built?

(a) 72√3 days
(b) 132√3 days
(c) 122√3 days
(d) 62√3 days

Q66. The volume of a tank is 72 cubic meters. Water is poured into it at the rate of 60 liters per minute. How much time till it takes to fill the tank?

(a) 6 hours
(b) 12 hours

(c) 20 hours
(d) 10 hours

Q67. 2x - 3y is a factor of:

(a) $4x^2 + 9y^2 – 12xy$
(b) $4x^2 + 9y^2 + 12xy$
(c) $8x^3 + 27y^3$
(d) $4x^2+ 36y^2 + 12xy$

Q68. Two trains start at same time from stations A and B. 1800 km apart, and proceed towards each other at an average speed of 44 km/h and 46 km/h, respectively. Where will the trains meet?

(a) 900 km from station B
(b) 880 km from station B
(c) 920 km from station A
(d) 880 km from station A

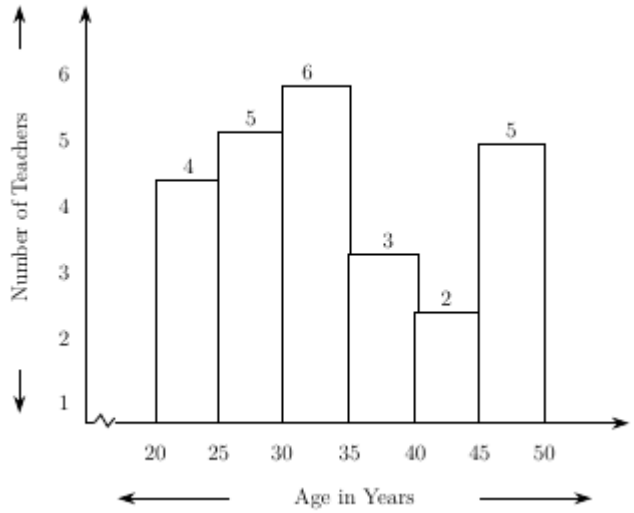
Q69. Given that 2^(20) + 1 is completely divisible by a whole number, which of the following is completely divisible by the same number?

(a) 5 × 2^(30)
(b) 2^(90) + 1
(c) 2^(15) + 1
(d) 2^(60) + 1

Q70. The volume of the water in two tanks, A and B, is in the ratio of 6 : 5. The volume of water tank A is increased by 30%. By what percentage should the volume of water in tank B be increased so that both tanks have the same volume of water?

(a) 18%
(b) 30%
(c) 15%
(d) 56%

Q71. Study the following graph and answer the question based on the graph.



What is the percentage of total teachers under 45 years of age?

(a) 60%
(b) 30%
(c) 80%
(d) 8%

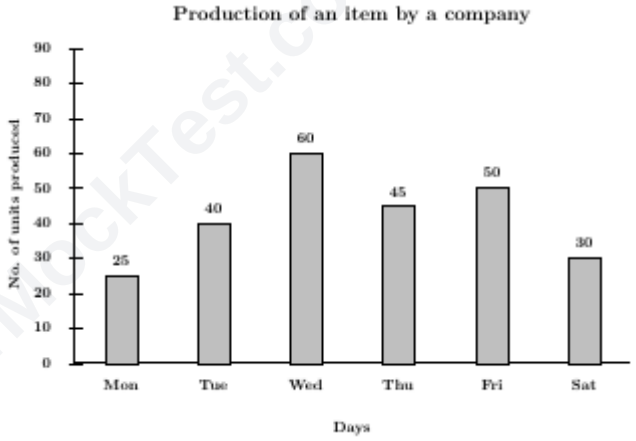
Q72. What number must be added to each of the numbers 8, 13, 26 and 40 so that the numbers obtained in this order are in proportion?

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

Q73. A player has a certain average for 15 innings. In the 16^(th) inning, he scores 120, thereby his average increased by 6 runs. What is the new average?

(a) 8
(b) 30
(c) 20
(d) 24

Q74. Study the following graph and answer the question based on the graph.



On which day the production was 1/5^(th) of the total production?

(a) Wednesday
(b) Tuesday
(c) Thursday
(d) Friday

Q75. If $\sin\theta + \text{cosec}\,\theta = 2$, then the value of $\sin^2\theta + \text{cosec}^2\,\theta$ is:

(a) 4
(b) 8
(c) 2
(d) 1

GENERAL AWARENESS

Q76. How many Indian bowlers have taken a hat-trick in International test cricket?

(a) Three
(b) Four
(c) Two
(d) One

Q77. 'Income and employment theory' is the other name for which branch of Economics?

(a) Macroeconomics
(b) Microeconomics
(c) Public finance
(d) International economics

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Q78. As of February 2020, who is the Governor of Goa?

(a) Satyapal Malik
(b) Bhagat Singh Koshyari
(c) Shripad Yesso Naik
(d) Pramod Sawant

Q79. Who is the author of 'Malavikagnimitram'?

(a) Kautilya
(b) Vyasa
(c) Kalidasa
(d) Vagbhata

Q80. Who wrote ‘Humayun Nama’?

(a) Humayun
(b) Akbar
(c) Gulbadan Begum
(d) Babur

Q81. Which Indian cricketer has scored the most number of runs in a single World Cup?

(a) Sachin Tendulkar
(b) Kapil Dev
(c) Rahul Dravid
(d) Rohit Sharma

Q82. Deficiency of thiamine results in _____.

(a) Beriberi
(b) Rickets
(c) Scurvy
(d) Pellagra

Q83. Who is the author of the book 'Bridgital Nation – Solving Technology's People Problem'?

(a) N Chandrasekaran
(b) Ratan Tata
(c) Nandan Nilekani
(d) Narayanamurthy

Q84. Which of the following symbols must be used before a formula in a Microsoft Excel sheet?

(a) &
(b) @
(c) $
(d) =

Q85. River Sutlej enters India through which pass?

(a) Zoji la
(b) Nathula
(c) Lipulekh
(d) Shipki la

Q86. In which of the following cities was the ‘India International Science Festival (IISF)’ held in November 2019?

(a) Kolkata
(b) New Delhi
(c) Bengaluru
(d) Thiruvananthapuram

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Q87. How many fundamental duties are set out in Part IV A (Article 51A) of the Constitution of India?

(a) 10
(b) 11
(c) 12
(d) 9

Q88. The moon is an example of a _____ object.

(a) transparent
(b) non-luminous
(c) translucent
(d) luminous

Q89. Who among the following is/was a famous Tabla player?

(a) TN Krishnan
(b) Bhimsen Joshi
(c) Alla Rakha
(d) Hariprasad Chaurasia

Q90. Which article in the Constitution of India empowers the President of India to promulgate ordinances when the Parliament is in recess?

(a) Article 232
(b) Article 123
(c) Article 312
(d) Article 213

Q91. 'Matki' is a popular folk dance of which of the following states?

(a) Assam
(b) Madhya Pradesh
(c) Bihar
(d) Rajasthan

Q92. What is the full form of BASIC in context of the BASIC computer language?

(a) Beginner’s All-purpose Symbolic Input-output Code
(b) Beginner’s All-purpose Systematic Instruction Code
(c) Beginner’s All-purpose Symbolic Instruction Code
(d) Beginner’s All-purpose Symbolic Input Code

Q93. Who is the only Indian to be nominated for the ‘IWGA Athlete of the Year 2019'?

(a) Rani Rampal
(b) Amiya Kumar Mallick
(c) Virat Kohli
(d) Mithali Singh

Q94. According to a report released by Greenpeace in Aug, 2019, India is the highest emitter of which of the following pollutants (gases)?

(a) Carbon Monoxide
(b) Sulphur dioxide
(c) Ammonia
(d) Nitrogen dioxide

Q95. Which of the following oil companies started an LPG bottling plant in Balangir district of Odisha in December 2019?

(a) Reliance Industries Limited
(b) Indian Oil Corporation Limited
(c) Bharat Petroleum Corporation Limited
(d) Hindustan Petroleum Corporation Limited

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Q96. The process that moves, elevates or builds up portions of the earth's crust is called:

(a) denudation
(b) volcanism
(c) diastrophism
(d) weathering

Q97. When was the PIN Code (Postal Index Code) introduced in India?

(a) 1969
(b) 1949
(c) 1963
(d) 1972

Q98. Slate is a which type of rock?

(a) sedimentary
(b) volcanic
(c) igneous
(d) metamorphic

Q99. The solar tracking (moving in the sun's direction) of the sunflower is called _____.

(a) Thigmotropism
(b) Phototropism
(c) Heliotropism
(d) Hydrotropism

Q100. Translated into English, the motto of the Indian National Army (INA) was _____.

(a) Unity and Discipline
(b) Unity, Faith, Sacrifice
(c) Do or Die
(d) Service before self

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) quite frequent

The correct answer is 'quite frequent'.

Key Points

• The error lies in the usage of the adjective 'frequent'.
• The phrase 'quite frequent' is modifying the verb 'moved'. This is incorrect.
• For the sentence to be correct, we need to use the adverbial phrase 'quite frequently' to modify the verb 'moved'.

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Important Points

• Frequent is an adjective. It means occurring or done many times at short intervals.

• 'Frequently' is an adverb. It means often.

Additional Information

• Adjectives do not modify verbs or adverbs or other adjectives.

• But adjectives can also act as a complement to linking verbs or the verb to be.

• It smells disgusting when you take off your shoes. (The adjective 'disgusting' complements the verb 'smells'.)

Q2. Answer: (c) Happening only rarely

The correct answer is 'Happening only rarely'.

Key Points

• The idiom 'once in a blue moon' means very rarely.

• Usage in a sentence - She comes around once in a blue moon to check on her elderly mother.

• Hence, option 3) Happening only rarely is the most appropriate meaning of the given idiom.

Mistake Points

• We may confuse the meaning of the idiom to be not rare but a singular occurrence. This can lead to the selection of the incorrect answer as option 1) Happening only once in a lifetime.

Additional Information

• “Once in a blue moon” today means “very rarely,” though it used to mean something that was absurd, right along the lines of “when pigs fly.”

Q3. Answer: (a) Boisterous

The solution is in Hindi. Read it online.

Q4. Answer: (d) Desolate

The correct answer is 'Desolate'.

Key Points

• Barren means (of land) too poor to produce much or any vegetation. It can also mean showing no results or achievements.

• The meanings of the given options are listed below -

• Fruitful - fertile or productive.

• Bountiful - abundant.

• Fertile - (of soil or land) producing or capable of producing abundant vegetation or crops.

• Desolate - (of a place) uninhabited and giving an impression of bleak emptiness.

• From the given meanings, it is clear that only desolate is a synonym of the given word.

• This makes option 4 the correct answer.

Additional Information

• Usage of the words in the given options in sentences -

• fruitful - Few explorations have been so fruitful as this six years' journey.

• bountiful - Consider giving a bountiful gift basket.

• fertile - The larger islands have some fertile and well-watered valleys and plains.

• desolate - It was a desolate wasteland except for some grazing sheep.

Q5. Answer: (d) our

The correct answer is 'our'.

Key Points

• Blank 1 needs a possessive determiner to show whom the evening belonged to.

• Of the given options, all of which are possessive determiner, 'our' is the best-fit word for the given blank as it means belonging to or associated with the speaker and one or more other people previously mentioned or easily identified.

• 'Their' implies third person plural, but in the given sentence, the use of 'we' shows that it cannot be used.

Additional Information

• 'Theirs' and 'ours' are independent possessive pronouns (also called absolute possessive pronouns) and must be used without a noun.

• The house on the corner is theirs.

• But ours is better.

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Q6. Answer: (b) celebrate

The correct answer is 'celebrate'.

Key Points

• Blank 2 needs a verb to show the action the subjects wanted to perform.

• This negates the usage of 'celebration' which is a noun.

• 'Wanted to' is followed by an infinitive owing to the usage of 'to'.

• So, the present tense form of 'celebrate' should be used for the blank.

• Hence, option 2 is the correct answer.

Additional Information

• Celebrate means acknowledge (a significant or happy day or event) with a social gathering or enjoyable activity.

Q7. Answer: (c) about

The correct answer is 'about'.

Key Points

• Blank 3 needs a preposition to link the verb 'reminiscing' with the topic of the said action.

• The usage of the given prepositions are as follows -

• for - with the object or purpose of.

• with - accompanied by (another person or thing).

• about - on the subject of; concerning.

• in - expressing the situation of something that is or appears to be enclosed or surrounded by something else.

• Hence, option 3 is the correct answer.

Q8. Answer: (b) profound

The correct answer is 'profound'.

Key Points

• Blank 4 needs an adjective to describe the noun 'experience' placed after it.

• The meaning of the given options are as follows -

• sincere - free from pretense or deceit

• profound - (of a state, quality, or emotion) very great or intense.

• comical - amusing, especially in a ludicrous or absurd way.

• dismal - causing a mood of gloom or depression.

• From the above meanings it is clear that option 2 is the best fit word for the given blank.

Q9. Answer: (c) the

The correct answer is 'the'.

Key Points

• Blank 5 needs an article.

• This negates the usage of 'much' and 'some' which are quantifiers.

• The articles (a/an/the) are used before adjectives which are followed by the nouns that they modify.

• Based on this, since the mentioned 'jungle' is a definite place, the definite article 'the' should be used.

• The 'solitude' being referred to here is definite as it is the one that is related to the jungle.

• Hence, option 3 is the correct answer.

Q10. Answer: (c) Revealed

The solution is in Hindi. Read it online.

Q11. Answer: (a) activities

The correct answer is 'activities'.

Key Points

• The meaning of the given words are as follows -

• activities - a thing that a person or group does or has done. The word 'engaged' shows that we need to use 'activities' here as the two words are often used together.

• conversions - the process of changing or causing something to change from one form to another.

• employments - a person's trade or profession.

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• moments - a very brief period of time.

• From the above meanings, it is clear that 'activities' is the best fit for the given blank.

Q12. Answer: (d) Roopa requested me to accompany her to the market.

The correct answer is 'Roopa requested me to accompany her to the market.'

Key Points

• The given direct speech is an imperative sentence. An imperative sentence is a sentence that expresses a command, a request, advice, or a suggestion.

• Open the door. (Command)

• Please help me. (Request)

• Quit smoking. (Advice.)

• As imperative sentences have a command, a request, advice, or a suggestion, to change them into an indirect speech some specific verbs are used (requested, order, advised, forbade, suggested) to replace the verbs (e.g. told, said) of reporting verb.

• In the given sentence, 'please' is used which gives the tone of requesting somebody. Hence, use 'requested' in the reported speech.

So the correct Indirect speech is→ Roopa requested me to accompany her to the market.

Q13. Answer: (d) BDAC

The correct answer is 'BDAC'.

Key Points

• The passage should start with sentence B that establishes the subject matter which is a comparison between happiness and peace. It states that happiness is difficult to achieve in comparison to peace. It mentions the reason behind this difficulty to be our constant need for happiness in daily life.

• To maintain continuity, sentence D should come in next as it talks about how the events in our daily lives that provide happiness are random and occur for a short period. The context of daily life makes sentence D ideal for the second position.

• Sentence A should come in the third spot as it further elaborates on the instances mentioned in sentence D that brings us happiness. It mentions several examples of instances that provide us with happiness.

• Sentence C provides an example of peace and points out how it differs from happiness. It comes in the last spot.

• So, BDAC is the correct arrangement of sentences which makes option 4 the correct answer.

Q14. Answer: (d) BADC

The correct answer is 'BADC'.

Key Points

• The passage should start with sentence B which establishes the subject matter. It introduces the characters of the passage which are a hawk and a hen. It talks about how the hawk who flew in the sky wanted to marry the hen who lived on earth.

• To maintain continuity, sentence A should come in next as it talks about the action taken by the hawk in order to marry the hen. This puts the sentence in the second position.

• Sentence D should come in the third spot as it tells us the positive answer provided by the hen when the hawk had asked her to marry him.

• Sentence C tells us the hawk's reaction to the affirmative answer from the hen and comes in the fourth position.

• So, BADC is the correct arrangement of sentences which makes option 4 the correct answer.

Q15. Answer: (b) An exhibition of sarees from different states of India is being arranged by us at Dilli Haat.

The correct answer is 'An exhibition of sarees from different states of India is being arranged by us at Dilli Haat.'

Key Points

• The given sentence is in the active voice which we can see because the passive voice is always written in the form of 'Be + V3'

• While changing the subject in the active voice, change it into the object of the passive voice.

• Always remember that the tense never changes in the Active/Passive voice.

• In the given sentence, the tense is the present continuous tense. So, the structure in the passive voice is 'Subject + Be + Being + V3 + Object'

• The verb 'Arrange' is a transitive verb so the direct object is 'an exhibition' which is going to be the subject in the passive voice.

• Also, it is a singular noun so we have used the singular verb.

So the correct passive voice is→ An exhibition of sarees from different states of India is being arranged by us at Dilli Haat.

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Q16. Answer: (c) To desert someone in his difficulties

The correct answer is 'To desert someone in his difficulties'.

Key Points

• The idiom 'To leave someone in the lurch' means to leave (someone) without help or protection when it is needed.

• Usage in a sentence - To leave someone in the lurch is an example of cowardice.

• Hence, option 3) To desert someone in his difficulties is the most appropriate meaning of the given idiom.

Additional Information

• This expression alludes to a 16th-century French dice game, lourche, where to incur a lurch meant to be far behind the other players.

Q17. Answer: (b) Philanthropist

The correct answer is 'Philanthropist'.

Key Points

• The meanings of the given options are as follows -

• Philologist - A philologist is someone who studies the history of languages, especially by looking closely at literature.

• Philanthropist - a person who seeks to promote the welfare of others, especially by the generous donation of money to good causes.

• Impressionist - a painter, writer, or composer who is an exponent of impressionism.

• Receptionist - a person who greets and deals with clients and visitors to a surgery, office, etc.

• From the above meanings, it is clear that 'philanthropist' is the correct word which means the same as the given group of words.

• Hence, option 2 is the correct answer.

Q18. Answer: (b) No improvement

The correct answer is 'No improvement'.

Key Points

• 'Shouldn't we' is the contraction of the phrase 'should not we'.

• It is a question tag for 'we should'.

• It is used when a particular action is being questioned.

• In the case of the following sentence, it is questioning whether the subjects should rest now because of a long day.

• Thus, it is correct for the given sentence making option 2 the correct answer.

Q19. Answer: (c) need to become stricter

The correct answer is 'need to become stricter'.

Key Points

• The error lies in the usage of the plural verb form 'need'.

• 'The environment protection policy' is a singular entity.

• As such, to maintain the subject-verb agreement, the singular verb form 'needs' should be used.

Therefore, the correct sentence is - The environment protection policy needs to become stricter if we wish to combat climate change.

Additional Information

• 'Needs' is also a plural noun form where it means circumstances in which something is necessary.

Q20. Answer: (b) has been declared

The correct answer is 'has been declared'.

Key Points

• 'Have declared' is the present perfect form of the main root verb 'declare'.

• The present perfect tense is a verb tense used to express actions that occurred at a non-specific time.

• The present perfect tense is also used to express actions that started in the past but continue to the present.

• Here, we need the passive form of the present perfect tense as Rohit is the one who is declared the best batsman - he should be the object in the active voice.

• Therefore, we need to use 'been' since the structure of the passive voice of the present perfect tense is - has/have + been + V3.

• So, option 2 is the correct answer.

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Q21. Answer: (d) Applaud

The solution is in Hindi. Read it online.

Q22. Answer: (c) setback

The correct answer is 'setback'.

Key Points

• The meanings of the given options are as follows -

• moodiness - a sullen gloomy feeling.

• His moodiness was harmful for the relationship.

• lowliness - Lack of vanity or self-importance.

• There is neither lowliness nor nobleness in careers.

• setback - a reversal or check in progress.

• He suffered from a setback because of the accident.

• significance - the quality of being worthy of attention

• We cannot deny the significance of the incident.

• From the above meanings, it is clear that 'setback' is the correct word for the given blank.

• This makes option 3 the correct answer.

Q23. Answer: (b) Bunglow

The correct answer is 'bunglow'.

Key Points

• The correct spelling of 'bunglow' is BUNGALOW and it means a low house having only one storey or, in some cases, upper rooms set in the roof, typically with dormer windows.

• All other given options have been spelt correctly.

• Hence, option 2 is the correct answer.

Additional Information

• Balloon - a small coloured rubber bag which is inflated with air and then sealed at the neck, used as a child's toy or a decoration.

• We decorated the room with balloons and streamers for his party.

• Irritant - a substance that causes slight inflammation or another discomfort to the body.

• Poison ivy is a powerful skin irritant.

• Adulteration - the action of making something poorer in quality by the addition of another substance.

• This shop is known for its adulteration.

Q24. Answer: (c) Chronology

The correct answer is 'Chronology'.

Key Points

• The meanings of the given options are as follows -

• Archaeology - the study of human history and prehistory through the excavation of sites and the analysis of artefacts and other physical remains.

• Ecology - the branch of biology that deals with the relations of organisms to one another and to their physical surroundings.

• Chronology - the arrangement of events or dates in the order of their occurrence.

• Geology - the science which deals with the physical structure and substance of the earth, their history, and the processes which act on them.

• From the above meanings, it is clear that 'chronology' is the correct word which means the same as the given group of words.

• Hence, option 3 is the correct answer.

Q25. Answer: (d) Arguement

The correct answer is 'Arguement'.

Key Points

• The correct spelling of 'Arguement' is ARGUMENT and it means an exchange of diverging or opposite views, typically a heated or angry one.

• All other given options have been spelt correctly.

• Hence, option 4 is the correct answer.

Additional Information

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• Existence - the fact or state of living or having objective reality.
• This shop has been in existence since the neighborhood started to grow.
• Commitment- the state or quality of being dedicated to a cause, activity, etc.
• I have a commitment to society.
• Distance - the length of the space between two points.
• It is a short distance from my house.

Q26. Answer: (c) 29

The number of triangles in the given figure are :
So the there are total 29 triangle in the given figure.
Hence, '29' is the correct answer.

Q27. Answer: (d) QNJKMX

The positions of the letters according to the English alphabet series:
Logic: The first two letter of the word get decreased by 1 position then the next two-letter increased by 2 again next two-letter decreased by 1 to get the code.
The pattern followed here is :
Similarly,
Hence,'QNJKMX' is the correct answer.

Q28. Answer: (a) C

Given,
A → Tennis players
B → Badminton players
C → Hockey players
D → Football players
On observing the given figure 'C' is common among all.
Hence, 'C' is the correct answer.

Q29. Answer: (d) [figure]

Given,
@ will be opposite of ($)
will be opposite of (!)
% will be opposite of (*)
By Checking options:
1)
→ Here '#' is adjacent to '!' so this can not be the answer.
2)
→ Here '%' is adjacent to '*' so this can not be the answer.
3)
→ Here '%' is adjacent to '*' so this can not be the answer.
4)
→ There is no opposite phase are adjacent to each other so this is the answer figure.
Hence, the figure in option 4 is the correct answer.

Q30. Answer: (d) 1

In a certain code language,
From the above figure 'bad' is coded as '1'.
Hence, '1' is the correct answer.

Q31. Answer: (c) 8 and 12

By checking the options :
1) × and +
Given equation : (56 ÷ 7) + 5 × 8 – 12 = 60

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After interchanging the position of the symbol as given in the option.
(56 ÷ 7) × 5 + 8 – 12 = 60
8 × 5 + 8 - 12 = 60
40 + 8 - 12 = 60
48 - 12 = 60
36 ≠ 60
2) + and ÷
Given equation : (56 ÷ 7) + 5 × 8 – 12 = 60
After interchanging the position of the symbol as given in the option.
(56 + 7) ÷ 5 × 8 – 12 = 60
63 ÷ 5 × 8 - 12 = 60
12.6 × 8 - 12 = 60
100.8 - 12 = 60
88.8 ≠ 60
3) 8 and 12
Given equation : (56 ÷ 7) + 5 × 8 – 12 = 60
After interchanging the position of the symbol as given in the option.
(56 ÷ 7) + 5 × 12 – 8 = 60
8 + 5 × 12 - 8 = 60
8 + 60 - 8 = 60
68 - 8 = 60
60 = 60
4) 7 and 5
Given equation : (56 ÷ 7) + 5 × 8 – 12 = 60
After interchanging the position of the symbol as given in the option.
(56 ÷ 5) + 7 × 8 – 12 = 60
11.2 + 7 × 8 – 12 = 60
11.2 + 56 - 12 = 60
67.2 -12 = 60
55.2 ≠ 60
Hence,'8 and 12' is the correct answer.

Q32. Answer: (c) 3, 5, 4, 2, 1

The meaningful sequence is :
3. Letter → These are the alphabets used to make a meaningful word.
5.Word → group of the letters is called word.
4. Phrase → group of the word is called a phrase.
2.Sentence → group of the phrase is called a sentence.
1. Paragraph → group of the sentence is called a paragraph.
Hence, '3, 5, 4, 2, 1' is the correct answer.

Q33. Answer: (d) Rs. 30,000

Let, the marked price is a
marked price is 100%
and after giving the discount of 25 % the price of laptop is Rs.22,500.
So,
a × (100 - 25) % = 22,500
a × 75% = 22,500
a = (22, 500 × 100) ÷ 75
a = 2250000 ÷ 75
a = 30,000
So, the marked price of Laptop is Rs. 30, 000.

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Hence, '30,000' is the correct answer.

Q34. Answer: (b) [figure]

The question figure is embedded in,

Hence, the figure in option 2 is the correct answer.

Q35. Answer: (d) mnomo

By checking the options :

1) mom/ oon /mom / non /mom /nmn (Does not follow any pattern)

2) nom/ non /mmm / non /mom /non (Does not follow any pattern)

3) nom/ mon /mom / non /mom /nnn (Does not follow any pattern)

4) mom/ non /mom / non /mom /non (Follow the pattern)

Hence, 'mnomo' is the correct answer.

Q36. Answer: (b) BCO

The positions of the letters according to the English alphabet series.

The pattern followed here is :

Similarly,

Hence, 'BCO' is the correct answer.

Q37. Answer: (b) [figure]

The paper when unfolded looks like,

Hence, the figure in option 2 is the correct answer.

Q38. Answer: (c) S

The positions of the letters according to the English alphabet series:

Logic: Difference between the positions of the letters is 3.

The pattern followed here is:

So, Instead of 'S' 'R' should be there.

Hence, 'S' does not belong to the series.

Q39. Answer: (d) 786

Logic: The first digit of the number remains the same and last two-digit get interchange to get the second number.

The pattern followed here is :

263 → 236

Similarly,

768 → 786

Hence, '786' is the correct answer.

Q40. Answer: (c) Only conclusion II follows.

The least possible Venn diagram for the given statement is :

I. All cats are bananas → False (It is possible but not definite)

II. Some cats are mangoes → True (Some mangoes are cats)

Hence, only conclusion II follows.

Q41. Answer: (a) KKXW

The positions of letters according to the English alphabet series :

Logic: Successive subtraction of even number from each letter to get the code.

The pattern followed here is :

Similarly,

Hence, 'KKXW' is the correct answer.

Q42. Answer: (d) P

The positions of the letters according to the English alphabet series:

The pattern followed here is :

Hence, 'P' is the correct answer.

Q43. Answer: (a) 81

Logic : To get the next term in the series add previous two terms.

The pattern followed here is :

1 + 1 = 2

2 + 1 + 1 = 4

4 + 2 + 1 = 7

7 + 4 + 2 = 13

13 + 7 + 4 = 24

24 + 13 + 7 = 44

44 + 24 + 13 = 81

Hence, '81' is the correct answer.

Q44. Answer: (d) K24

The position of the letters according to the English alphabet series:

The pattern followed here is

PTR: R38

P → P + 2 = R

T(20) + R(18) → 20 + 18 = 38

Similarly,

IMK:?

I → I + 2 = K

M (13) + K (11) → 13 + 11 = 24

? = K24

Hence, 'K24' is the correct answer.

Q45. Answer: (b) 42

The pattern followed here is :

Hence, '42' is the correct answer.

Q46. Answer: (c) Mohan himself

Preparing the family tree using the following symbols,

The person who is standing with my mother in the photograph is the only son of my father means Mohan himself.

Hence, 'Mohan himself' is the correct answer.

Q47. Answer: (a) 95

Logic: Successive addition of square of the number starting from the 1 to get the require series

The pattern followed here is :

Hence, '95' is the correct answer.

Q48. Answer: (b) [figure]

The pattern followed here is :

The figure moves 90^o clockwise.

Hence, the figure in option 2 is the correct answer.

Q49. Answer: (b) 737

The pattern followed here is:

1) 5^3+ 6 → 125 + 6 = 131

2) 7^3 + 5 → 343 + 5 = 348

Similarly,

3) 9^3 + 8 → 729 + 8 = 737

Hence, '737' is the correct answer.

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Q50. Answer: (c) [figure]

The mirror image would be as follows :

Hence, the figure in option 3 is the correct answer.

Q51. Answer: (b) 40%

Given:

Units produced on Friday = 50

Units produced on Friday = 30

Formula Used:

Percentage Decline = ((a – b)/a) × 100

Calculations:

Units produced on Friday = 50

Units produced on Friday = 30

Percentage Decline = ((a – b)/a) × 100

=> Percentage Decline = ((50 – 30)/50) × 100

=> Percentage Decline = (20/50) × 100

=> Percentage Decline = 40%

Therefore The percentage decline in the production from Friday to Saturday is 40%.

Q52. Answer: (c) Rs. 936

Given:

At loss 10%, SP of article = Rs. 810

Formula Used:

SP = CP × (1 + P%/100)

SP = CP × (1 – L%/100)

where, SP → Selling Price, CP → Cost Price

Calculations:

At loss 10%, SP of article = Rs. 810

Now, SP = CP × (1 – L%/100)

=> 810 = CP × (1 – 10/100)

=> 810 = CP × (9/10) ----(1)

At gain 4%,

SP = CP × (1 + 4/100)

=> SP = CP × (26/25) ----(2)

Dividing (2) by (1), we get

=> SP/810 = [CP × (26/25)]/[CP × (9/10)]

=> SP/810 = 104/9

=> SP = (104/90) × 810

=> SP = Rs. 936

Therefore The price at which Salma sells it to gain 4% is Rs. 936.

Q53. Answer: (b) 2 years

Given:

Sum = Rs. 320

Amount = Rs. 405

Rate of interest = 12.5%

Formula Used:

If a^m = a^n, then

m = n

Amount = P × (1 + r%/100)^t

=> P → Principal, r% → Rate of interest per annum, t → Time period

Calculations:

Let the time period be t years.

Amount = P × (1 + r%/100)t
=> 405 = 320 × (1 + 12.5/100)^t
=> 405/320 = (9/8)^t
=> 81/64 = (9/8)² = (9/8)^t
=> t = 2 years
Therefore The time in which a sum of Rs. 320 amount to Rs. 405 is 2 years.

Q54. Answer: (a) (4x + 1) units

Given:
The area of park = 16x2 + 8x + 1
Formula Used:
Area of square = (Side)²
Calculations:
16x2 + 8x + 1 = 0
=> (4x)² + 2 × 4x + (1)²
=> (4x + 1)²
Now, Area of square = (Side)2
=> Length of park = (4x + 1)
Therefore The length of the park is (4x + 1) units.

Q55. Answer: (a) 14 cm

Given:
Radius of circle = 10 cm
Length of PQ = 16 cm
Length of RS = 12 cm
Formula Used:
AC² = AB² + BC²
where, AB, BC → Sides of a right-angled triangle, AC → Hypotenuse of a right-angled triangle
Calculations:
Let O be the center of the circle.
In ΔOAP,
OP² = OA² + AP²
=> (10)² = OA² + (8)²
=> OA² = 100 – 64 = 36
=> OA = 6 cm
Similarly, In ΔOBR,
OR2 = OB2 + BR2
=> (10)2 = OB2 + (6)2
=> OB2 = 100 – 36 = 64
=> OB = 8 cm
Now, AB = OA + OB
=> AB = (6 + 8) cm
=> AB = 14 cm
Therefore The distance between the chords if they are on opposite sides of the centre is 14 cm.

Q56. Answer: (c) 1

Given:
sin 20° cos 70° + sin 70° cos 20°
Concept Used:
If (θ + α) = 90°, then
sinθ = cosα
Formula Used:
sin²θ + cos²θ = 1

Calculations:

Considering the given equation,

sin 20° cos 70° + sin 70° cos 20° = ?

Now, (20° + 70°) = 90°

=> (sin 20°)² + (cos 20°)² = ? [cos70° = sin20°, sin70° = cos20°]

sin2θ + cos2θ = 1

Therefore The value of? is 1.

Q57. Answer: (c) 1

Concept Used:

Calculations:

Considering the given equation,

10 – [121 ÷ (11 × 11) – (- 4) – {3 – (8 – 1)}] = ?

=> 10 – [121 ÷ (121) + 4 – {3 – 7}] = ?

=> 10 – [121 ÷ (121) + 4 – {-4}] = ?

=> 10 – [121 ÷ (121) + 4 + 4] = ?

=> 10 – [121/121 + 4 + 4] = ?

=> 10 – [1 + 4 + 4] = ?

=> 10 – 9 = ?

=> 1 = ?

Therefore The value of ? is 1.

Q58. Answer: (c) 110°

Given:

angle SPQ = 110°

PQRS is a cyclic quadrilateral

PQ || SR

Concept Used:

In a cyclic quadrilateral, the sum of opposite angles is 180°.

If AB || CD, then

θ + α = 180°

Calculations:

In cyclic quadrilateral PQRS,

angle SPQ + angle SRQ = 180°

=> 110° + angle SRQ = 180°

=> angle SRQ = 180° – 110°

=> angle SRQ = 70°

Now, angle SRQ + angle PQR = 180°

=> 70° + angle PQR = 180°

=> angle PQR = 180° – 70°

=> angle PQR = 110°

Therefore The measure of the angle PQR is 110°.

Q59. Answer: (d) 5

Calculations:

From the graph,

Teachers above the age of 45 yrs and below 50 years = 5

Therefore The teachers who are aged 45 years or more but less than 50 years is 5.

Q60. Answer: (a) obtuse angled

Given :

The ratio of angles of a triangle is 3: 4 : 8

Concept used :

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The sum of all angles of a triangle is 180°
Calculations :
Let the values of angles be 3x, 4x and 8x
3x + 4x + 8x = 180°
15x = 180°
=> x = 12°
3x = 36°, 4x = 48° and 8x = 96°
One of the angles is more than 90°
Therefore The triangle will be obtuse

Q61. Answer: (c) a2x2 + 2abxy + b2y2

Concept used :
$(a + b)^2 = a^2 + b^2 + ab$
Calculations :
$(ax + by)^2 = a^2x^2 + 2abxy + b^2y^2$
Out of all options, we can see only one option matches the value
Therefore Option 3 will be the right answer

Q62. Answer: (c) Rs. 50,000

Given :
The selling price of a mobile phone is Rs. 31500
Discounts offered were 30% and 10%
Concept used :
Total discount = a + b – (a × b)/100 (where a and b are the discounts offered on the same item)
Selling price = marked price - discount on Marked price
Calculations :
Total discount % = 30% + 10% – (30% × 10%)/100 = 37%
According to the question,
=> 31500 = Marked price – discount on the marked price
=> 31500 = Marked price – 37% of marked price
=> 31500 = 63% of the marked price
Marked price = (31500/63) × 100
=> Rs. 50000
Therefore The marked price of the item was Rs. 50000
Concept used:
S.P = M.P × (100 – D1)/100 × (100 – D2)/100
Calculations:
Let the Marked price be x
S.P = M.P × (100 – D1)/100 × (100 – D2)/100
=> 31500 = x × (100 – 30)/100 × (100 – 10)/100
=> 31500 = x × 70/100 × 90/100
=> x = 5 × 100 × 100
=> x = 50000
Therefore The marked price of the item was Rs. 50000

Q63. Answer: (c) 22°

Given :
tan4A = cot(A – 20°)
Formula used :
tanθ = cot (90° – θ)
Calculations :
cot (90° – 4A) = cot (A – 20°)
=> 90°– 4A = A – 20°

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=> 5A = 110°

=> A = 22°

Therefore The value of A will be 22°

Q64. Answer: (d) 75°

Shortcut Trick

The angle between the altitude (AP) and the angle bisector (AQ) from the same vertex is given by the formula:

angle PAQ = 1/2 |angle B − angle C|

From the given figure, assuming standard values angle B = 60° and angle C = 30°:

=> angle PAQ = 1/2 |60° − 30°| = 15°

In the right-angled triangle APQ, angle APQ = 90°.

=> angle PQA = 90° − angle PAQ = 90° − 15° = 75°.

Therefore The correct answer is 75°.

Alternate Method

Given: In ΔABC, AP perpendicular to BC and AQ is the angle bisector of angle BAC.

Formula Used: Sum of interior angles of a triangle = 180°.

In ΔABC, let angle B = 60° and angle C = 30°.

=> angle A = 180° − (60° + 30°) = 90°

=> Since AQ is the bisector, angle BAQ = angle A ÷ 2 = 90° ÷ 2 = 45°

In right-angled ΔABP:

=> angle BAP = 90° − angle B = 90° − 60° = 30°

Now, find angle PAQ:

=> angle PAQ = angle BAQ − angle BAP = 45° − 30° = 15°

In right-angled ΔAPQ:

=> angle PQA = 180° − (angle APQ + angle PAQ)

=> angle PQA = 180° − (90° + 15°)

=> angle PQA = 180° − 105° = 75°

Therefore The correct answer is 75°.

Additional Information

Angle between Altitude and Bisector

In any triangle, the angle formed between the altitude and the angle bisector drawn from the same vertex is equal to half the absolute difference of the other two angles: angle = 1/2 |angle B − angle C|.

Angle Bisector Theorem

The internal bisector of an angle of a triangle divides the opposite side internally in the ratio of the sides containing the angle: BQ/QC = AB/AC.

Exterior Angle Property

The exterior angle of a triangle is equal to the sum of the two opposite interior angles. In this case, angle AQC = angle B + angle BAQ.

Q65. Answer: (b) 132\/3 days

Given :

A can do a work in 12 days

B can do the same work in 16 days

They work on alternate days

Concept used :

work done each day = total work/total number of days

Calculations :

Total work = LCM of 12 and 16

=> 48 units

A's per day work = 48/12 = 4 units

B's per day work = 48/16 = 3 units

Total work done in 13 days (7 days of A and 6 days of B) = 7 × 4 + 6 × 3 = 46 units

Remaining work = 48 – 46 = 2 units

Time is taken by B to complete the remaining work = 2/3 (B's turn to do the work)
=> 2/3 days
Total time taken = 13 + 2/3
=> 132⁄3 days
Therefore Total 132⁄3 days will be taken to complete the work

Q66. Answer: (c) 20 hours

Given :
Volume of the tank = 72 m^3
Water is poured at a rate of 60 litres/minute
Formula used :
1 m^3 = 1000 litres
Calculations :
Total volume of Water (in litres) = 72 × 1000 = 72000 litres
Total time taken = Total volume/Rate of water poured per minute
=> Total time = 72000/60
=> 1200 minutes
=> 20 hours (1 hour = 60 minutes)
Therefore The total time taken was 20 hours

Q67. Answer: (a) $4x^2 + 9y^2 – 12xy$

Concept used :
$(a - b)^2 = a^2 + b^2 - 2ab$
Calculations :
$(2x - 3y)^2 = 4x^2 + 9y^2 - 12xy$
we can see that option 1 has the same value
Therefore option 1 is the correct answer

Q68. Answer: (d) 880 km from station A

Given :
Two trains start from point A and B
Distance between them is 1800 km
Speed of trains are 44 and 46 km/hour respectively
Concept and formula used :
Time = Distance/Speed
Relative speed
Speeds are added when vehicles run in the opposite direction
Speeds are subtracted when vehicles run in the same direction
Calculations :
Relative speed = 44 + 46 = 90 km/hour
Time taken to meet = 1800/90 = 20 hours
Distance travelled by train running from A = speed × time
=> 44 × 20
=> 880 km
Therefore Distance from station A will be 880 km

Q69. Answer: (d) 2^(60) + 1

Given :
2^(20) + 1 is completely divisible by a whole number
Formula used :
$a^3 + b^3 = (a + b)(a^2 + b^2 - ab)$
Calculations :
We will expand the numbers

2^(90) + 1 = 2^(90) + 1^(90) = (2^(30)+ 1)(2^(60) + 1^(60) - 2^(30))

2^(15) + 1 = 2^(15) + 1^(15) = (2^5 + 1) (2^(10) + 1^(10) - 2^5)

2^(60) + 1 = 2^(60) + 1^(60) = (2^(20) + 1)(2^(40) + 1^(40) - 2^(20))

We can see that in if a number divides (220 + 1) then it will surely divide (260 + 1)

Therefore The answer will be the option D

Q70. Answer: (d) 56%

Given:

The volume ratio of A, B is 6 : 5

The volume of A is increased by 30%

Calculation:

Let the volume of A, B be 60, 50

New volume of A = 60(1 + 30/100) = 78

Difference between the volumes of A, B is 78 – 50 = 28

Therefore Percentage Increase in volume = 100 × 28/50 = 56%

Q71. Answer: (c) 80%

Calculation:

Total teacher = 4 + 5 + 6 + 3 + 2 + 5 = 25

Total teachers whose age is less than 45 = 25 - 5 = 20

Therefore Percent required = 100 × 20/25 = 80%

Q72. Answer: (d) 2

Formula Used:

Componendo dividendo rule

Calculation:

Let x be the number that to be added

=> (8 + x)/(13 + x) = (26 + x)/(40 + x)

By applying componendo dividend

=> (8 + x + 13 + x)/(13 + x – (8 + x)) = (26 + x + 40 + x)/(40 + x – (26 + x))

=> (21 + 2x)/5 = (66 + 2x)/14

=> 294 + 28x = 330 + 10x

=> 18x = 36

=> x = 2

Therefore The number that should be added is 2.

Q73. Answer: (b) 30

Given:

The score in the 16^(th) innings is 120

The increase in average is 6

Formula Used:

Total score = Average × No. of Innings

Calculations:

Let the initial average be ‘k’

=> New average = k + 6

=> Total Score after 15 innings = 15k

=> Total Score after 16 innings = 16(k + 6) = 16k + 96

=> 15k + 120 = 16k + 96

=>k = 24

=> k + 6 = 24 + 6 = 30

Therefore New Average = k + 6 = 30

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Q74. Answer: (d) Friday

Calculation:

Total production = 25 + 40 + 60 + 45 + 50 + 30 = 250

=> 1/5^(th) of total production = 250/5 = 50

Therefore Friday is the answer

Q75. Answer: (c) 2

Given:

$\sin\theta + \text{cosec}\theta = 2$

Formula Used:

$\text{cosec}\theta = 1/\sin\theta$

Calculation:

Let $\sin\theta = x$

$\Rightarrow \sin\theta + \text{cosec}\theta = x + 1/x = 2$

$\Rightarrow (x + 1/x)^2 = 2^2$

$\Rightarrow x^2 + 2 + 1/x^2 = 4$

$\Rightarrow x^2 + 1/x^2 = 2$

Therefore $\sin^2\theta + \text{cosec}^2\theta = 2$

Q76. Answer: (a) Three

The correct answer is Three.

• Three Indian bowlers - Harbhajan Singh, Irfan Pathan, and Jasprit Bumrah have managed to bag a hat-trick in Test cricket.

• An occasion when a player scores three times (wickets, goals, sixes) in the same game is known as hat trick.

Important Points

• Deepak Chahar is the only Indian to have taken a hat-trick in T20Is.

• Chetan Sharma was the first Indian bowler to take a hat-trick in ODI cricket, against New Zealand in the 1987 World Cup.

• Kapil Dev was the second Indian bowler to take a hat-trick in ODI cricket.

• He achieved this feat in the Asia Cup final against Sri Lanka, played at the Eden Gardens in 1991.

Additional Information

• A hat-trick is a rare occurrence in any form of cricket, An occasion when a player scores three times (wickets, goals,sixes) in the same game is known as hat trick, and only 49 hat-tricks have been taken in the history of ODI cricket.

• Pakistan's Jalal-ud-Din became the first bowler to take a hat-trick in ODI cricket.

• He did so against Australia in 1982.

• Sri Lanka's bowler, Lasith Malinga has taken 3 hat-tricks in ODI cricket.

Q77. Answer: (a) Macroeconomics

The correct answer is Macroeconomics.

• Macroeconomics is a branch of economics that studies how an overall economy:

• Inflation.

• Price levels.

• Rate of economic growth.

• National income.

• Gross domestic product (GDP).

• Changes in unemployment.

• The two main areas of macroeconomic research are long-term economic growth and shorter-term business cycles.

Important Points

• Microeconomics is the social science that studies the implications of incentives and decisions, specifically about how those affect the utilization and distribution of resources.

• Microeconomics provides a more complete and detailed understanding than macroeconomics.

• Public finance is the management of a country’s revenue, expenditures, and debt load through various government and quasi-government institutions.

• The main components include:

• Tax collection.

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• Budget.
• Expenditures.
• Deficit/Surplus.
• National Debt.
• International economics deals with the economic activities of various countries and their consequences.
• It studies economic and political issues related to international trade and finance.

Q78. Answer: (a) Satyapal Malik

The correct answer is Satyapal Malik.
• Satya Pal Malik is the 21^(st) and current Governor of Meghalaya.
• He was the 18^(th) Governor of Goa (3 November 2019 - 18 August 2020).
• Bhagat Singh Koshyari is now Governor of Goa as an additional charge.
Important Points
• Bhagat Singh Koshyari is the current Governor of Maharashtra.(Nov 2020)
• Shripad Yesso Naik is a member of the Lok Sabha since 1999.
• He is the Union Minister of State in the Ministry of Ayurveda, Yoga & Naturopathy, Unani, Siddha, and Homoeopathy and Minister of State for Defence.
• Pramod Pandurang Sawant is the 11^(th) and current Chief Minister of Goa.

Q79. Answer: (c) Kalidasa

The correct answer is Kalidasa.
• Malavikagnimitra, (Sanskrit: “Malavika and Agnimitra”) five-act drama written by Kalidasa.
• Kalidasa is one of the greatest classical Sanskrit poets and dramatists of ancient India.
• His writings reveal that he was a pious Brahmana of Ujjain, and had acquired a knowledge of the various branches of Brahmanical learning.
• His poetic talent is very well reflected in all his works, which are Malavikagnimitra, Vikramorvasiya, Abhijñana-Sakuntala, and poems like Raghuvamsa, Kumarasambhava, and Meghaduta.
Important Points

Kautilya	**• Chanakya is also known as Kautilya and Vishnugupta. - He was prime minister under the reign of Chandragupta Maurya. - He is best known as the author of the political treatise Arthashastra which he wrote as a kind of instruction manual for the young Chandragupta on how to rule effectively.**
Vyasa	• Krishna Dvaipāyana, also known as Vyasa and Veda Vyāsa. - Vyasa is traditionally known as the author of the Mahabharata. - Veda Vyasa is also known to be the transcriber of Vedas and Puranas.
Vagbhata	• Maharishi Vagbhata was the great sage of Ayurveda, who lived his entire life on Vedic principles, worked for the expansion of Ayurveda. - There are two books written by him are Ashtanga Hridayam and Ashtanga Sangraha.

Q80. Answer: (c) Gulbadan Begum

The correct answer is Gulbadan Begum.
• Gulbadan Begum was a Mughal princess and the daughter of Emperor Babur and sister of Humayun.
• She is best known as the author of Humayun Nama.
Important Points

Humayun	**• Babur’s son, Humayun, built Dinpanah at Delhi as his second capital. - Humayun fought two battles with Sher Shah Suri and was ultimately defeated: - Battle of Chausa. - Battle of Kannauj. - Humayun died in AD 1556 falling from the stairs of his library building.**

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Akbar	• Humayun's officer Bairam Khan crowned 13-year-old Akbar as the third Mughal emperor. - He defeated Hemu at the Second Battle of Panipat (AD 1556) with the help of Bairam Khan. - The third Mughal emperor introduced a land revenue system called Todar Mal Bandobast or Zabti system, through his finance minister Raja Todar Mal. - He also introduced the Mansabdari System or the rank-holder system to organize the nobility and army. - The Navratnas or the nine famous intellectuals of Akbar's court were Todar Mal, Abul Fazal, Faizi, Birbal, Tansen, Abdur Rahim Khana-i-Khana, Mullah-do-Pyaza, Raja Man Singh, and Fakir Aziao-Din.
Babur	• The very first Mughal emperor and the founder of the Mughal emperor Babur brought gunpowder to India. - He is known for defeating: - Ibrahim Lodhi in the First Battle of Panipat (AD 1526). - Rana Sanga (Sangram Singh) at battle of Khanwa. - Medini Rai of Chenderi at Battle of Chanderi (AD 1528). - Mahmud Lodi at Battle of Ghagra (AD 1529). - Babur wrote Tuzuk-i-Baburi in the Turkish language. - He is the first Mughal emperor declared Jehad and adopted the title Ghazi.

Q81. Answer: (a) Sachin Tendulkar

The correct answer is Sachin Tendulkar.

• Sachin Tendulkar was scoring 673 runs in the 2003 World Cup.

• It including a hundred and 6 fifties, at an average of 61.18, and bagged the 'Man of the Tournament' award.

• Sachin Tendulkar was scoring 482 runs in the 2011 World Cup.

• It including 2 hundred and 2 fifties, at an incredible average of 53.55.

• Sachin was scoring 523 Runs in the 1996 World Cup.

• It including 2 hundred and 3 fifties at a colossal average of 87.17.

Important Points

• Rohit Sharma was scoring 648 Runs in the 2019 World Cup.

• Kapil Dev is a former Indian cricketer.

• Kapil Dev led the Indian cricket team to their maiden World Cup triumph on June 25, 1983.

Q82. Answer: (a) Beriberi

The correct answer is Beriberi.

Important Points

VITAMIN	SCIENTIFIC NAME	DEFICIENCY	SOURCE
A	Retinol	Night Blindness, Hyperkeratosis, Keratomalacia	Fish, liver, dairy products, orange, ripe yellow fruits, leafy vegetables, carrots, pumpkin, squash, spinach
D	Cholecalciferol (D3), Ergocalciferol (D2)	Rickets and osteomalacia	Eggs, liver, certain fish species such as sardines, certain mushroom species such as shiitake
E	Tocopherols, Tocotrienols	mild hemolytic anaemia in newborn infants	Many fruits and vegetables, nuts and seeds, and seed oils
K	Phylloquinone, Menaquinones	Bleeding diathesis	Many fruits and vegetables, nuts and seeds, and seed oils
B	Thiamine	Beri-Beri	Pork, wholemeal grains, brown rice, vegetables, potatoes, liver, eggs
C	Ascorbic acid	Scurvy	Many fruits and vegetables, liver

Additional Information

• Pellagra is a disease caused by a lack of vitamin B3 (niacin).

Q83. Answer: (a) N Chandrasekaran

The correct answer is N Chandrasekaran.

• The chairman of Tata Sons, N. Chandrasekaran, and his co-author, Roopa Purushothaman wrote the book 'Bridgital Nation – Solving Technology's People Problem'.

• Natarajan Chandrasekaran is Chairman of the Board of Tata Sons.

• Roopa Purushothaman is the chief economist and head of policy advocacy at the Tata Group, and the founder of Avasara Leadership Institute.

Important Points

AUTHOR	BOOKS
Ratan Tata	The Wit & Wisdom of Ratan Tata, Getting India Back on Track: An Action Agenda for Reform, Ratan Tata: From Steel to Cellular.
Nandan Nilekani	Rebooting India: Realizing a Billion Aspirations, Imagining India: The Idea of a Renewed Nation.
Narayanamurthy	A Clear Blue Sky: Stories and Poems on Conflict and Hope, Behtar Bharat, Behtar Duniya.

Q84. Answer: (d) =

The correct answer is =.

Important Points

• Microsoft Excel shortcut keys:

Shortcut keys	Action
Ctrl+N	Create a new workbook
Ctrl+O	Open an existing workbook
F12	Open the Save As dialog box
F4	Repeat the last command or action
Shift+F11	Insert a new worksheet
Ctrl+F2	Switch to Print Preview
F7	Check to spell
F9	Calculate all worksheets in all open workbooks
Shift+F9	Calculate active worksheets
Ctrl+F1	Show or hide the ribbon

Q85. Answer: (d) Shipki la

The correct answer is Shipki la.

Key Points

• Shipki La is a mountain pass and border post on the India-Tibet border.

• The river Sutlej enters India through this pass.

• It is located in the Kinnaur district in the state of Himachal Pradesh, India, and Tibet.

• This pass is India's third border post for trade with Tibet after Nathu La in Sikkim, and Lipulekh in Uttarakhand.

Important Points

Zoji La	**• One of the world's most dangerous mountain roads. - Zoji La is a high mountain pass at an elevation of 3,528m (11,575ft) above sea level, located in the Kargil district of Ladakh, India. - The pass links Amid Leh in the Western Himalayan Mountain Ranges and Srinagar and provides an important link between Ladakh and Kashmir.**

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Nathula	• It is a mountain pass in the Eastern Himalayas in Sikkim. - This mountainous pass is one of the oldest trading border posts connecting Tibet and India. The silk route, an ancient trade route used to pass through here. - Its elevation is 4,310 m.
Lipulekh	• Lipulekh Pass is a tri-junction between India, Nepal, and China situated atop the Kalapani Valley in Uttarakhand. - Its elevation is 5,200 m.

Q86. Answer: (a) Kolkata

The correct answer is Kolkata.

• The 5th edition of India International Science Festival (IISF) 2019 was held in Kolkata from 5th to 8th November 2019.

• The Union Minister for Science & Technology, Earth Sciences, and Health & Family Welfare, Dr Harsh Vardhan announced this at a curtain-raiser Press Conference in New Delhi.

• It is being organized in collaboration with Vigynana Bharati, an RSS-linked scientific body.

• The IISF will also host 28 different events such as Agriculture Scientists' Meet, Vigyan Samagam, Young Scientists Conference, Vigyanika-International Science Literature Festival, International Science Film Festival of India.

• The theme for this year's festival is 'RISEN India - Research, Innovation, and Science Empowering the Nation'.

Q87. Answer: (b) 11

The correct answer is 11.

Important Points

• The total number of Fundamental Duties provided by Article 51A of the Constitution of India is 11.

• Part IVA of the Indian Constitution deals with Fundamental Duties.

• There are 11 Fundamental duties.

Article 51A: Fundamental duties:

1. To abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem.

2. To cherish and follow the noble ideals which inspired our national struggle for freedom.

3. To uphold and protect the sovereignty, unity, and integrity of India.

4. To defend the country and render national service when called upon to do so.

5. To promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic, and regional or sectional diversities; to renounce practices derogatory to the dignity of women.

6. To value and preserve the rich heritage of our composite culture.

7. To protect and improve the natural environment including forests, lakes, rivers, and wildlife, and to have compassion for living creatures.

8. To develop the scientific temper, humanism, and the spirit of inquiry and reform.

9. To safeguard public property and to abjure violence.

10. To strive towards excellence in all spheres of individual and collective activity so that the nation constantly rises to higher levels of endeavor and achievement.

11. To provide opportunities for education by the parent the guardian, to his child, or a ward between the age of 6-14 years as the case may be.

Q88. Answer: (b) non-luminous

The correct answer is non-luminous.

• Objects that do not emit light on their own are called non−luminous objects.

• Moon is a non-luminous object because it does not emit its own light and glows by reflecting the light of the sun.

• It is the fifth-largest natural satellite in the Solar System and the largest among planetary satellites relative to the size of the planet that it orbits.

• The Moon is the second-densest satellite.

• The first densest is Jupiter's satellite.

• The Moon is made of rock and metal—just like the Earth and the other rocky planets (Mercury, Venus, and Mars).

Additional Information

• The first uncrewed mission to the Moon was in 1959 by the Soviet Lunar Program with the first crewed landing being Apollo 11 in 1969.

• Sun is a luminous object because it a source of light and consequently emits light of its own.

Q89. Answer: (c) Alla Rakha

The correct answer is Alla Rakha.

• Ustaad Allarakha Qureshi popularly known as Alla Rakha was an Indian tabla player who specialized in Hindustani classical.

• Trippunithura Narayanaiyer Krishnan was an Indian Carnatic music violinist.

• Pandit Bhimsen Gururaj Joshi was a legendary Hindustani classical vocalist.

• He is renowned for the khayal form of singing, as well as for his popular renditions of devotional music.

Important Points

Pandit Shivkumar Sharma, Rahul Sharma, Tarun Bhattacharya, Abhay Sopori.	**Santoor Player**
Ustad Zakir Hussain, Alla Rakha, Ustad Tafu Khan.	Tabla Player
Amjad Ali Khan Bangash, Ali Akbar Khan, Allauddin Khan.	Sarod Player
Hariprasad Chaurasia, Paras Nath.	Flute Player
Asad Ali Khan, Zia Mohiuddin Dagar, Ayyagari Syamasundaram	Veena Player
Pt Ravi Shankar, Shahid Parvez Khan, Budhaditya Mukherjee, Anushka Shankar.	Sitar Player

Q90. Answer: (b) Article 123

The correct answer is Article 123.

• Article 123 of the Indian Constitution grants the President of India the power to promulgate ordinances when either of the two Houses of the Parliament is not in session.

• An Ordinance may relate to any subject that the Parliament has the power to legislate on. Conversely, it has the same limitations as the Parliament to legislate, given the distribution of powers between the Union, State, and Concurrent Lists.

Important Points

Article 232	**• Omitted by the Constitution 7th Amendment Act, 1956 CHAPTER VI SUBORDINATE COURTS.**
Article 312	• All India Services. - The Indian Administrative Service and The Indian Police Service are deemed to be constituted by the Parliament in terms of Article 312 of the Constitution.
Article 213	• Power of Governor to promulgate Ordinances during recess of Legislature.

Q91. Answer: (b) Madhya Pradesh

The correct answer is Madhya Pradesh.

• The 'Matki' dance form has been developed by nomadic tribes in Madhya Pradesh.

• Performed using a “small pitcher” is a folk dance originating from central India known as the “Matki Dance”.

• This “pitcher dance” belongs to the state of Madhya Pradesh, and is mainly performed in the Malwa region.

Important Points

STATE	**DANCES**
Assam	Bihu, Naga dance, Khel Gopal, Natpuja, Maharas, Canoe, Jhumura Hobjanai.
Madhya Pradesh	Aada, Khada Nach, Selabhadoni, Maanch, Phulpati, Grida.
Bihar	Bakho-Bakhain, Sama Chakwa, Bidesia, Jata-Jatin, Panwariya.
Rajasthan	Ghumar, Chakri, Ganagor, Chang, Kalbeliya.

Q92. Answer: (c) Beginner’s All-purpose Symbolic Instruction Code

The correct answer is Beginner’s All-purpose Symbolic Instruction Code.

Important Points

• BASIC is one of the simplest and earliest high-level programming language supports in all operating systems.

• John G. Kemeny and Thomas E. Kurtz designed the original BASIC language DartmouthBasic in 1964.

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• The main moto is that all students should be able to use computers in every field.

• With the use of BASIC, people started developing custom software on their personnel computer for their business, profession, etc.

Additional Information

• QuickBasic (QB) is the compiler for the BASIC developed by Microsoft in 1985 which runs mainly on DOS.

Q93. Answer: (a) Rani Rampal

The correct answer is Rani Rampal.

• Indian women's hockey team captain Rani Rampal has been announced as one of the candidates to win the title of 'Athlete of the Year 2019' by the International World Games Association (IWGA).

• She will be competing for the honour with 25 other athletes from various sports.

Important Points

Amiya Kumar Mallick	**• He is a current National record holder in 100m who also competes in 200m and 4 x 100m relay. - He created a National record in 100m at the 2016 Federation cup after finishing the race in 10.26 seconds. - He won Gold in 100m at the 2019 National Open Championships held in Ranchi.**
Virat Kohli	• He won the International Cricketer of the Year at the CEAT Cricket Rating Awards, 2019. - He won the Rajiv Gandhi Khel Ratna award in 2018.

Q94. Answer: (b) Sulphur dioxide

The correct answer is Sulphur dioxide.

Important Points

• According to a new analysis by Greenpeace, India is the largest emitter of SO2 in the world with more than 15% of all the anthropogenic sulfur dioxide (SO2) hotspots detected by NASA OMI (Ozone Monitoring Instrument) satellite.

• The largest source of SO2 in the atmosphere is the burning of fossil fuels and other industries' activities.

• In 2019, India emitted 21% of global anthropogenic SO2 emissions, nearly double that of the second-ranked global emitter, Russia.

• The major SO2 emission hotspots in India are:

• Singrauli in Madhya Pradesh.

• Neyveli and Chennai in Tamil Nadu.

• Talcher and Jharsuguda in Odisha.

• Korba in Chhattisgarh.

• Kutch in Gujarat.

Q95. Answer: (c) Bharat Petroleum Corporation Limited

The correct answer is Bharat Petroleum Corporation Limited.

Important Points

• A new LPG bottling plant was set up for Rs 103 crore by Bharat Petroleum Corporation Limited (BPCL) in Odisha Balangir district.

• It was inaugurated by Vice President M Venkaiah Naidu on December 27, 2019.

• The foundation stone of the Balangir LPG bottling plant was laid on May 21, 2018, by Petroleum Minister Dharmendra Pradhan.

• The plant with a capacity to produce 42 lakh cylinders per year.

• BPCL already has an LPG bottling plant at Khurda and the new plant at Balangir is the second company plant in Odisha.

Q96. Answer: (c) diastrophism

The correct answer is diastrophism.

• All processes that move, elevate or build up portions of the earth's crust come under diastrophism.

• It includes Orogenic processes and Epeirogenic processes.

• Orogenic processes involving mountain building through severe folding and affecting long and narrow belts of the earth's crust. They act tangentially to the earth's surface, as in plate tectonics.

• Epeirogenic processes involving uplift or warping of large parts of the earth's crust, thus it is a continental building process. They act along the earth's radius and thus are also called radial movements.

Important Points

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denudation	**• All the exogenic geomorphic processes are covered in the denudation phenomenon. - Weathering, mass wasting/movements, erosion, and transportation are included in denudation.**
volcanism	• It is the process where deep magma erupts onto the surface or emplaces near the surface through a volcanic conduit, thereby forming various types of volcanic debris.
weathering	• It is a long term process of breaking down or dissolving of rocks and minerals on Earth's surface. - Once a rock has been broken down, a process called erosion transports the bits of rock and minerals away. - Water, acids, salt, plants, animals, and temperature changes are all agents of weathering and erosion.

Q97. Answer: (d) 1972

The correct answer is 1972.

Important Points

• The Postal Index Number or PIN code is a six-digit unique code of post-office numbering introduced on 15 August 1972 by Shriram Bhikaji Velankar.

• World Post Day: 9th of October.

Key Points

• Mahatma Gandhi was the first person whose picture was depicted on free India’s stamp in 1948.

• India was the first country in the Commonwealth to issue airmail stamps.

• The first stamp of independent India was issued on 21 November 1947.

Q98. Answer: (d) metamorphic

The correct answer is metamorphic.

• Slate is a fine-grained metamorphic rock that exhibits a foliation called slaty cleavage that is the flat orientation of the small platy crystals of mica and chlorite forming perpendicular to the direction of stress.

• Metamorphic rock material has been changed by temperature, pressure, and/or fluids.

Important Points

sedimentary	**• Sedimentary rocks are formed by the accumulation of sediments. - There are three basic types of sedimentary rocks: - Clastic sedimentary rocks such as breccia, conglomerate, sandstone, siltstone, and shale are formed from mechanical weathering debris. - Chemical sedimentary rocks, such as rock salt, iron ore, chert, flint, some dolomites, and some limestones, form when dissolved materials precipitate from the solution. - Organic sedimentary rocks such as chalk, coal, diatomite, some dolomites, and some limestones, form from the accumulation of plant or animal debris.**
volcanic	• Volcanic rock (extrusive rock) is one kind of magmatic rock (igneous rock). - Once the lava has erupted, it cools and solidifies into rock. - Basalt is a common volcanic rock with low silica content. Rhyolite is a volcanic rock with high silica content.
igneous	• It forms when hot, molten rock crystallizes and solidifies. The melt originates deep within the Earth near active plate boundaries or hot spots, then rises toward the surface. - Examples of intrusive igneous rocks are diabase, diorite, gabbro, granite, pegmatite, and peridotite.

Q99. Answer: (c) Heliotropism

The correct answer is Heliotropism.

• Heliotropic plants slowly track the motion of the sun across the sky during the day and then drift back during the nighttime.

• Sunflowers display heliotropic movement even on cloudy days.

• Floral heliotropism is controlled by motor cells located just below the flower head.

Important Points

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Thigmotropism	**• It is the directional response of a plant organ to touch or physical contact with a solid object. - This response is caused by the induction of some pattern of differential growth. - This phenomenon is clearly illustrated by the climbing tendrils of some plants, such as the sweet pea.**
Phototropism	• It is a directional response that allows plants to grow towards, or in some cases away from, a source of light. - Photoperiodism is the regulation of physiology or development in response to day length.
Hydrotropism	• It is a directed growth in response to water or moisture gradients and begins in the root cap with the sensing of the moisture gradient.

Q100. Answer: (b) Unity, Faith, Sacrifice

The correct answer is Unity, Faith, Sacrifice.

Important Points

• The words inscribed were the motto of the INA: Unity (Etihad), Faith (Etmad), and Sacrifice (Kurbani).

• On 8 July 1945, S.C. Bose laid its foundation stone at the Esplanade just before the Japanese surrendered.

• When British forces returned to Singapore that same year, the Head of Southeast Asia Command, Lord Mountbatten, ordered the original Memorial to be demolished.

• The INA was first led by Captain Mohan Singh, later headed by the Indian independence campaigner, Subhas Chandra Bose.

• It was dissolved when the Japanese surrendered in 1945.

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