English

Directions—(Q. 1–10) : Give one word for the sentences.

1. A film show in the afternoon.
   - (A) Movie
   - (B) Matinee
   - (C) Maiden
   - (D) Housefull

2. A person who studies rocks and soil.
   - (A) Geophysicist
   - (B) Biologist
   - (C) Geologist
   - (D) Scientist

3. A place where clothes are kept—
   - (A) Suitcase
   - (B) Wardrobe
   - (C) Trunk
   - (D) Almirah

4. A person who leaves his country to settle in another country—
   - (A) Immigrant
   - (B) Emigrant
   - (C) Migrant
   - (D) Pessimist

5. Life story of a person written by someone else—
   - (A) Autobiography
   - (B) Biography
   - (C) Story
   - (D) Information

6. One who treats heart diseases ………
   - (A) Dentist
   - (B) Cardiologist
   - (C) Paediatrician
   - (D) Gynaecologist

7. A space traveller …………
   - (A) Pilot
   - (B) Technocrat
   - (C) Astronaut
   - (D) Astronomer

8. One who prescribes corrective lenses ……?……
   - (A) Paediatrician
   - (B) Optician
   - (C) Opthalmologist
   - (D) Oculist

9. One who makes maps and charts ……… ?………
   - (A) Geologist
   - (B) Geographer
   - (C) Cartographer
   - (D) Politician

10. An expert at displaying fireworks ……… .
    - (A) Bandmaster
    - (B) Magician
    - (C) Fireman
    - (D) Pyrotechnician

Directions—(Q. 11–15) : In each of the sentence which word completes the given sentence.

11. The accused was not found guilty and was :
    - (A) removed
    - (B) dismissed
    - (C) punished
    - (D) discharged

12. Why did you ……… yourself from duty yesterday, when there was urgent work to be done ?
    - (A) absolve
    - (B) abscond
    - (C) absent
    - (D) abstain

13. The flood damaged the books so much that it was impossible to ……… them.
    - (A) retrieve
    - (B) retrace
    - (C) retract
    - (D) retreat

14. The Government policy gave rise to vigorous ………
    - (A) proposals
    - (B) protestations
    - (C) protests
    - (D) provocations

15. His appointment may ……… some new life into the committee.
    - (A) increase
    - (B) inject
    - (C) infect
    - (D) insure

Directions—(Q. 16–20) : In the following questions choose the alternatives which best expresses the meaning to the key word.

16. Custom
    - (A) dessert
    - (B) habit
    - (C) ethic
    - (D) deliver

17. Mural
    - (A) writing
    - (B) music
    - (C) a painting on wall
    - (D) ancient

18. Inedible
    - (A) unfit for human consumption
    - (B) polluted
    - (C) vitiated
    - (D) eatable

19. Nostalgic
    - (A) indolent
    - (B) fragrant
    - (C) homesick
    - (D) soothing

20. Resolve
    - (A) turn
    - (B) puzzle
    - (C) decide
    - (D) want

Directions—(Q. 21–25) : Fill in the blanks with the most suitable Idiom.

21. Let us now ……… and work for the advancement of the country.
    - (A) blow our trumpet
    - (B) feather our own nest
    - (C) sit on the fence
    - (D) bury the hatchet

22. About 75% people in this country are so poor that they live ………… .
    - (A) through thick and thin
    - (B) from hand to mouth
    - (C) in low spirits
    - (D) in the dark

23. The possession of Bahrein is .... between Great Britain and Iran.
    - (A) dead letter
    - (B) far cry
    - (C) wild goose chase
    - (D) bone of contention

24. The cost of living has increased so much that he finds it difficult to ....
    - (A) make both ends meet
    - (B) earn his bread and butter
    - (C) eat an humble pie
    - (D) have his fingers in the pie

25. When I last saw him he was .... with grief.
    - (A) beside himself
    - (B) giving himself airs
    - (C) hoping against hope
    - (D) coming to the front

Directions—(Q. 26–30) : Choose the most appropriate preposition :

26. The customer smashed his fist down .... the table.
    - (A) into
    - (B) at
    - (C) on
    - (D) against

27. He has suffered heavy losses, yet he was rolling .... wealth.
    - (A) for
    - (B) with
    - (C) from
    - (D) in

28. Pakistan is not enamoured .... the bomb for its own sake.
    - (A) with
    - (B) for
    - (C) of
    - (D) by

29. Very often we do not get what we pine ....
    - (A) about
    - (B) for
    - (C) at
    - (D) on

30. Your conduct smacks .... recklessness.
    - (A) of
    - (B) with
    - (C) from
    - (D) in

Directions—(Q. 31–35) : Each sentence is followed by four words. Select the word which is most opposite in meaning to the capital word.

31. Dust storms and polluted rivers have made it HAZARDOUS to breathe the air and drink the water.
    - (A) convenient
    - (B) risky
    - (C) wrong
    - (D) safe

32. His officer was a very STRICT person.
    - (A) pleasant
    - (B) open hearted
    - (C) lenient
    - (D) indifferent

33. After swallowing the frog, the snake had become LETHARGIC.
    - (A) aggressive
    - (B) dull
    - (C) active
    - (D) slowly

34. For the first time. I saw him speaking RUDELY to her.
    - (A) softly
    - (B) gently
    - (C) politely
    - (D) slowly

35. Kapil's bowling yesterday proved very COSTLY.
    - (A) economical
    - (B) frugal
    - (C) thrifty
    - (D) expensive

Directions—(Q. 36–40) : Fill in appropriate verbs/noun.

36. Good news .... always welcome.
    - (A) are
    - (B) have
    - (C) has
    - (D) is

37. I .... to Shimla last year with my friends.
    - (A) go
    - (B) went
    - (C) gone
    - (D) goes

38. A .... of stars.
    - (A) bunch
    - (B) cluster
    - (C) flock
    - (D) bundle

39. A .... of sailors.
    - (A) company
    - (B) troupe
    - (C) group
    - (D) crew

40. A .... of keys.
    - (A) bunch
    - (B) cluster
    - (C) collection
    - (D) series

Directions—(Q. 41–45) : Choose the correct tense form from the options given below :

41. She is cooking food.
    - (A) Past continuous
    - (B) Future perfect
    - (C) Present continuous
    - (D) Simple present

42. Boys have been playing since morning.
    - (A) Past continuous
    - (B) Future perfect
    - (C) Present perfect continuous
    - (D) Simple present

43. I have just reached office.
    - (A) Present perfect tense
    - (B) Past perfect tense
    - (C) Simple past tense
    - (D) Past perfect continuous tense

44. The carnival will last for 10 days.
    - (A) Simple present tense
    - (B) Simple past tense
    - (C) Simple future tense
    - (D) Past perfect tense

45. When he stepped inside, he was crying.
    - (A) Past continuous tense
    - (B) Simple past tense
    - (C) Both (A) and (B)
    - (D) None of them

Directions—(Q. 46–50) : Choose the appropriate alternative to fill in the blanks in the following questions.

46. I would have given him the notes, if he ………… to me yesterday.
 (A) came
 (B) would come
 (C) had come
 (D) would have come

47. We have no objection ………… the seminar in Chandigarh.
 (A) attending
 (B) to attend
 (C) having attended
 (D) to attending

48. Many people in Delhi celebrated. Diwali in a grand way ………… the high prices.
 (A) even though
 (B) in spite of
 (C) because of
 (D) even if

49. Two of the representatives abstained ……… voting on the issue.
 (A) of
 (B) against
 (C) from
 (D) out

50. After a long discussion I prevailed ………… him to accept the proposal.
 (A) at
 (B) upon
 (C) against
 (D) for

General Knowledge

51. Nitrogen fixing agent 'Rhizobium Leguminisarum' is found in which of the following crops ?
 (A) Paddy
 (B) Pea
 (C) Wheat
 (D) Maize

52. The hardest material naturally available on earth is :
 (A) Gold
 (B) Diamond
 (C) Iron
 (D) Platinum

53. What was the official mascot of 2018 FIFA World cup ?
 (A) Fuleco
 (B) Zakumi
 (C) Willie
 (D) Zabivaka

54. Who among the following has won the 2018 French open men's Single title ?
 (A) Novak Djokovic
 (B) Andy Murray
 (C) Rafael Nadal
 (D) Grigor Dimitrov

55. How many gold medals were won by India in Asian Games 2018 which was held in Indoneisa ?
 (A) 15
 (B) 16
 (C) 17
 (D) 18

56. 'Lira' is the currency of which of the following countires ?
 (A) Turkey
 (B) Japan
 (C) Yemen
 (D) Afghanistan

57. Which of the following country is situated at equator ?
 (A) Mexico
 (B) Indonesia
 (C) Argentina
 (D) Costa Rica

58. The slogan in National emblem "Satyameva Jayate" has been taken from the following scripture.
 (A) The Bhagavad gita
 (B) The Mundaka upnishad
 (C) The Ramayana
 (D) The Chandogya Upanishad

59. The age of a candidate to contest Parliamentary election should not be less than :
 (A) 18 years
 (B) 21 years
 (C) 25 years
 (D) 26 years

60. TRAI is a regulatory body associated with which of the following sectors ?
 (A) Transport
 (B) Travel and Tourism
 (C) Technical Education
 (D) Telecom

61. The hottest place in the world is :
 (A) Azizia (Libya)
 (B) Ramagudam (India)
 (C) Stewart Island (New Zealand)
 (D) Kandy (Sri Lanka)

62. ………… is called the 'land of a thousand lakes'.
 (A) Canada
 (B) Finland
 (C) Switzerland
 (D) Sweden

63. 'Jawahar Tunnel' is situated in :
 (A) Banihal Pass
 (B) Zozila Pass
 (C) Shipkila Pass
 (D) Burjil Pass

64. Which of the following rivers flow in the east direction ?
 (A) Son
 (B) Tapti
 (C) Godavari
 (D) Narmada

65. The dwelling place of which of the following ? Dhauladhur Range of Western Himalaya ?
 (A) Bodo
 (B) Limbu
 (C) Bhutia
 (D) Gaddi

66. Seismograph is used to measure—
 (A) Earthquakes
 (B) Rainfall
 (C) Ocean Depth
 (D) Sound Intensity

67. In which city Bharat Ratna Atal Bihari Vajpayee Ikhana cricket ground is situated ?
 (A) Lucknow
 (B) Ranchi
 (C) New Delhi
 (D) Ahmedabad

68. Give the equivalent rank of colonel of Army in Indian Airforce—
 (A) Flight Leutinent
 (B) Group Captain
 (C) Wing Commander
 (D) Air Commodore

69. What is the time taken by the Sunlight to reach Earth ?
    (A) 8 min 20 sec   (B) 18 min 20 sec
    (C) 12 min 20 sec   (D) 15 min 20 sec

70. Name the 2nd largest continent of the world.
    (A) Asia   (B) Africa
    (C) North America   (D) South America

71. The number of states crossed by Tropic of cancer in India is—
    (A) 6   (B) 7
    (C) 8   (D) 9

72. Who is external affairs minister of India ?
    (A) Nirmala Sitaraman (B) Sushma Swaraj
    (C) Smriti Irani   (D) Sonia Gandhi

73. Who is Chief of Naval staff ?
    (A) Admiral Bipin rawat
    (B) Admiral Sunil Lamba
    (C) Admiral BS Dhanoa
    (D) None of the above

74. The 2020 Olympic games will be held in :
    (A) Tokyo   (B) Los Angeles
    (C) London   (D) Beijing

75. Gaganyaan India's first manned space mission will be launched by Indian space research Organisation (ISRO) by which of the following years ?
    (A) 2021   (B) 2022
    (C) 2023   (D) 2024

76. To what game is 'China man' related ?
    (A) Hockey   (B) Squash
    (C) Badminton   (D) Cricket

77. Bone marrow produce ....
    (A) White Blood Cells (B) Red Blood Cells
    (C) Fat   (D) Oxygen

78. The Antarctic Ocean is also called—
    (A) Eastern Ocean   (B) Southern Ocean
    (C) Northern Ocean   (D) Western Ocean

79. Who was responsible for the Jallianwalla Bagh Massacre ?
    (A) General Simon   (B) General Smith
    (C) General Dyer   (D) General Myer

80. Who is Chief election commissioner of India ?
    (A) Sunil Arora   (B) OP Rawat
    (C) Mr. S. Y. Qureshi (D) None of these

81. Who has been sworn in as the 46th chief justice of India ?
    (A) Justice J. S. Khehar
    (B) Justice Dipak Misra
    (C) Justice Ranjan Gogoi
    (D) Justice P. N. Bhagwati

82. Who has been named as the brand ambassador of Tribes India ?
    (A) Mary Kom   (B) M. S. Dhoni
    (C) Virat Kohli   (D) Dipa Karmarkar

83. Which of the following Indian has been awarded the UN Champions of the Earth Award 2018 ?
    (A) Aamir Khan
    (B) Amitabh Bachchan
    (C) Narendra Modi
    (D) Sachin Tendulkar

84. Who has won the FIFA player of the year Award 2018 ?
    (A) Luka Modric
    (B) Cristiano Ronaldo
    (C) Mohammad Salah
    (D) Lionel Messi

85. Who among the following is the recipient of the Rajiv Gandhi Khel Ratan Award 2018 ?
    (A) Devendra Jhajharia & Heera Nand
    (B) Virat Kohli & Saikhom Mirabai Chanu
    (C) R. Gandhi & Dipa Karmakar
    (D) Sania Mirza & Sardar Singh

86. As per 2018 cleanliness survey for Indian Railways, which of the following has been declared the cleanest railway station in the A1 category ?
    (A) Jodhpur   (B) Patna
    (C) New Delhi (D) Ajmer

87. ISRO is working under India's first mission to study the Sun through which of the following satellites ?
    (A) Surya R-1   (B) Bhaskar S-5
    (C) Aditya L-1 (D) Surya S-1

88. Prime minister has launched world's largest government funded healthcare scheme 'Ayushman Bharat' in which city ?
    (A) Kolkata   (B) Ranchi
    (C) Mumbai   (D) Ahmedabad

89. India's first railway University has been opened in ......
    (A) Punjab   (B) Uttar Pradesh
    (C) Maharastra   (D) Gujarat

90. India's first private sector unit for manufacturing Unmanned Air Vehicles (UAV) will be set up in ....
    (A) Kota   (B) Bhopal
    (C) Chandigarh   (D) New Delhi

91. North Atlantic Treaty Organization's (NATO) biggest military exercise was started in Norway. What is the name of this military excercise ?
    (A) Zapad
    (B) Triangle Army 18

(C) Vostok 18

(D) Trident Juncture 18

92. Which of the following nuclear submarine has successfully completed its first deterrence patrol ?

(A) INS Chakra

(B) INS Kalvari

(C) INS Arihant

(D) INS Khanderi

93. When is World Anti-tobacco day observed ?

(A) 22 March   (B) 22 April

(C) 31 May   (D) 16 September

94. Minamata disease is caused by which of the following pollutants ?

(A) Mercury   (B) Cadmium

(C) Nitrate   (D) Flouride

95. Which country's flag looks like two triangles ?

(A) Egypt   (B) Nepal

(C) Surinam   (D) Spain

96. Who has become the first Indian Javelin thrower to win gold medal at the Asian games 2018 ?

(A) Rajesh Bind

(B) Jagdish Bishnoi

(C) Neeraj Chopra

(D) Narender Ranbir

97. Which of the following cities hosted the Indian International Science festival, 2018 ?

(A) Kolkata   (B) Patna

(C) Chennai   (D) Lucknow

98. In june 2018, the 44th G7 Summit was held in Qubec, Canada, Which of the following countries will host the next G7 summit ?

(A) Germany   (B) France

(C) UK   (D) Japan

99. The largest producer of Gold in the world is :

(A) Australia   (B) Canada

(C) Russia   (D) South Africa

100. Which 'water body' separates Andaman and Nicobar Islands ?

(A) Eleventh Degree Channel

(B) Andaman sea

(C) Bay of Bengal

(D) Ten Degree Channel

Mathematics/Intelligence Test

101. In the International place value system, we write 1 million for :

(A) 1 Lakh   (B) 10 Lakh

(C) 100 Lakh   (D) 1 Crore

102. How many seconds are there in 4 hours ?

(A) 14000   (B) 14200

(C) 14300   (D) 14400

103. Three wheels making 60, 30, 20 revolutions in a minute, start with a certain point in their circumference downwards. They will first come all together again in the same position after :

(A) 2 sec   (B) 3 sec

(C) 5 sec   (D) 6 sec

104. The greatest number of four digits which is exactly divisible by 2, 3, 4, 5, 6 and 7 is :

(A) 9860   (B) 9670

(C) 9660   (D) 9990

105. Which of the numbers are co-primes ?

(A) (5, 15)   (B) (21, 27)

(C) (7, 42)   (D) (12, 17)

106. The number of edges of a triangular pyramid is :

(A) 3   (B) 4

(C) 6   (D) 8

107. The total number of lines of symmetry of a scalene triangle is :

(A) 1   (B) 2

(C) 3   (D) None of these

108. The number of lines of symmetry of a n sided regular polygon is :

(A) n (B) $2n$

(C) $\dfrac{n}{2}$ (D) None of these

Directions—(Q. 109–113) Study the following table and answer the questions given below.

Number of working employees in four different companies in five different years :

Year	Company							
	A		B		C		D	
	Male	Female	Male	Female	Male	Female	Male	Female
2008	200	400	250	450	350	600	400	450
2009	250	150	400	100	550	350	550	600
2010	400	250	850	400	350	500	650	450
2011	650	400	500	150	650	500	700	600
2012	750	300	600	350	400	300	650	400

109. What is the total number of working men in company A in year 2011, working men in company B in year 2009 and working women in company D in year 2010 ?
(A) 1550   (B) 1600
(C) 1450   (D) 1500

110. What is the average number of working women in year 2008 in all companies together ?
(A) 475   (B) 385
(C) 450   (D) 300

111. The number of working men in company C in all years together is approximately how much per cent of total number of working employees in year 2011 in all comapnies together ?
(A) 41   (B) 46
(C) 51   (D) 55

112. If in year 2008, Company B had 20% male and 30% female disabled employees, then what was the total number of disabled employees in that company in that year ?
(A) 185   (B) 170
(C) 190   (D) 195

113. What was the ratio between the number of males in company D in year 2009, females in company A in year 2010, male in company B in year 2009 respectively ?
(A) 11 : 5 : 8
(B) 11 : 6 : 8
(C) 12 : 5 : 9
(D) 12 : 5 : 7

114. The price of 4 tables and 3 chairs is ₹ 16,500. The price of 2 tables, 2 watches and 2 chairs is ₹ 12,000. Price of 3 tables and 1 chair is :
(A) 8000   (B) 7500
(C) 8500   (D) Can't be determined

115. In $\triangle ABC$, $\angle A = 90°$, $AB = 5$ cm and $AC = 12$ cm. If AD is perpendicular to BC, then length of AD is—
(A) $\dfrac{13}{2}$ cm   (B) $\dfrac{2\sqrt{15}}{13}$ cm
(C) $\dfrac{60}{13}$ cm   (D) $\dfrac{13}{60}$ cm

116. On dividing $x^3 - 6x + 7$ by $x + 1$ the remainder is :
(A) 2   (B) 12
(C) 0   (D) 7

117. Which is the smallest fraction ?
(A) $\dfrac{2}{3}$ (B) $\dfrac{3}{4}$
(C) $\dfrac{5}{6}$ (D) $\dfrac{1}{2}$

118. When n is divided by 4, the remainder is 3. What is the remainder when $2n$ is divided by 4 ?
(A) 1   (B) 2
(C) 3   (D) 6

119. The radius of a circle is equal to the side of a square whose area is 196 cm². The length of the rectangle is twice the diameter of the circle. If breadth of the rectangle is half the length, what is the area of the rectangle ?
(A) 3136 cm²   (B) 2352 cm²
(C) 1568 cm²   (D) None of these

120. The average of first four prime numbers is :
(A) 1·7   (B) 17
(C) 4·25   (D) 42·5

121. If AB ‖ CD in the given figure, then $\angle FGE =$
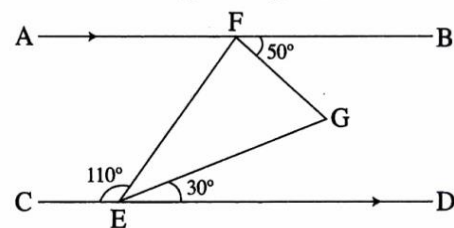
(A) 30°   (B) 50°
(C) 70°   (D) 80°

122. The height of the vertex of an equilateral triangle from its base is x cm. Length of each side of the equilateral triangle is :
(A) $\dfrac{\sqrt{3}}{2} x$ cm   (B) $\dfrac{2}{\sqrt{3}} x$ cm
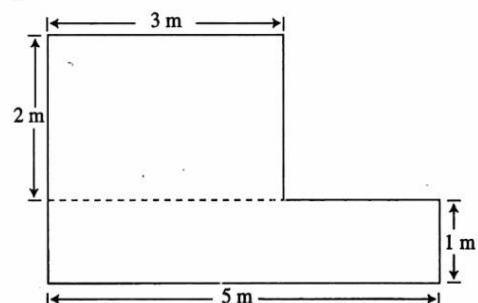(C) $x\sqrt{2}$ cm   (D) $\dfrac{3}{\sqrt{2}} x$ cm

123. What is the sum of 6·666, 6·66 and 6·06 ?
(A) 1·9386   (B) 19·386
(C) 193·86   (D) 1938·6

124. A hall measures 24 m × 20 m. The number of tiles of size 0·4 m × 0·3 m required to pave the floor is—
(A) 1500   (B) 4000
(C) 3000   (D) 2500

125. In the figure given below, what is the area of the carpet ?

(A) 16 m   (B) 16 m²
(C) 11 m²   (D) 11 m

126. A train starts at 5:45 a.m. and reaches the next station at 9:20 a.m. What is the time taken by the train to reach the next station ?
(A) 3 hr 35 min
(B) 3 hr 15 min
(C) 3 hr 25 min
(D) 4 hr 35 min

127. A bucket can hold 20 litres of water. Its $\frac{3}{5}$ part is filled with water. What is the amount of water required to fill the bucket completely ?
(A) 12 litres
(B) 10 litres
(C) 8 litres
(D) 6 litres

128. The cost of putting a fence around a square field at ₹ 2·50 per metre is ₹ 200. The length of each side of the field is :
(A) 80 m
(B) 40 m
(C) 20 m
(D) None of these

129. The HCF of first 100 natural numbers is :
(A) 2
(B) 100
(C) 1
(D) None of these

130. The value of $8 + 8 \div 2 + 2$ is :
(A) 9
(B) 8
(C) 10
(D) 14

131. If a bicycle has 18 spokes, then the angle between a pair of adjacent spokes is :
(A) 10°
(B) 18°
(C) 36°
(D) 20°

132. If 50% of a number is 20, what is 75% of the number ?
(A) 8
(B) 15
(C) 30
(D) 45

133. The simple interest for rupees 1050 for two years at the rate of 12% per annum is :
(A) ₹ 1102
(B) ₹ 52
(C) ₹ 352
(D) ₹ 252

134. The ratio between two numbers is 3 : 4 and L. C. M. is 180. The first number is :
(A) 60
(B) 45
(C) 20
(D) 15

135. $(0·3)^2 + \sqrt{0·0121}$ is equal to :
(A) $8\frac{2}{11}$
(B) $81\frac{9}{11}$
(C) $\frac{9}{11}$
(D) $\frac{9}{110}$

136. The sum of prime numbers less than 20 is :
(A) 78
(B) 75
(C) 77
(D) 79

137. 4 kilometers 5 decameters = ?
(A) 4500 m
(B) 4050 m
(C) 4005 m
(D) 45000 m

138. Match List-I with List-II and select the correct answer using the codes given below :

List-I (Number)		List-II (Their L.C.M.)	
(a) 35, 77		1.	693
(b) 20, 30		2.	105
(c) 15, 35		3.	60
(d) 63, 99		4.	385

Codes :

	(a)	(b)	(c)	(d)
(A)	2	3	1	4
(B)	2	1	4	3
(C)	4	3	2	1
(D)	3	4	1	2

139. If a, b, c, are any three natural numbers, then $a(b + c) = (a \times b) + (a \times c)$ is an example of :
(A) The commutative law
(B) the Associative law
(C) The distributive law
(D) None of the above

Directions—(Q. No. 140–147) : What value will come in place of question mark (?) in the following questions ?

140. $13 \times ? = 1664 \div 16$
(A) 7
(B) 8
(C) 11
(D) 5

141. $\frac{1}{2}$ of $\frac{3}{5}$ of $\frac{4}{9}$ of 5820 = ?
(A) 766
(B) 777
(C) 776
(D) 767

142. $\dfrac{64 - 0·008}{16 + 0·8 + 0·04} = ?$
(A) 2
(B) 3·8
(C) 0·6
(D) 4·2

143. $\dfrac{48 - 12 \times 3 + 9}{12 - 9 \div 3} = ?$
(A) $4\frac{1}{3}$
(B) $2\frac{1}{3}$
(C) $\frac{1}{3}$
(D) 21

144. 15% of 15% = ?
(A) 2·25
(B) 0·225
(C) 0·0225
(D) 0·00225

145. $\sqrt{176 + \sqrt{2401}} = ?$
(A) 12
(B) 15
(C) 14
(D) 10

146. 60% of 20% of $\frac{3}{5}$ of ? = 450
(A) 6200
(B) 6250
(C) 6150
(D) 6275

147. $20\frac{1}{2} + 30\frac{1}{3} - 15\frac{1}{6} = ?$

(A) $34\frac{1}{6}$ (B) $35\frac{5}{6}$

(C) $35\frac{2}{3}$ (D) $45\frac{1}{3}$

148. The Sum of ages of father and Son is 100 years. Five years ago the ratio of their ages was 2 : 1. Ratio of their ages after 10 years is :
(A) 4 : 3   (B) 5 : 3
(C) 3 : 5   (D) 10 : 7

149. The average of first five multiples of 4 is :
(A) 4   (B) 8
(C) 12   (D) 16

150. In a Village 30% of the population is literate. If the total population of the village is 6600, then the number of illiterates is :
(A) 1980   (B) 4620
(C) 2200   (D) 3280

151. A Car covers a 200 km distance in 2 hours 40 minutes. A Jeep covers the same distance in 2 hours. Ratio of their speeds is :
(A) 3 : 4   (B) 4 : 3
(C) 4 : 5   (D) 5 : 4

152. In a division Sum, the divisor is 10 times the quotient and 5 times the remainder. If the remainder is 40, then the dividend is :
(A) 240   (B) 440
(C) 4040   (D) 4000

Directions—(Q. No. 153–155) : Study the following diagram to answer the given questions :
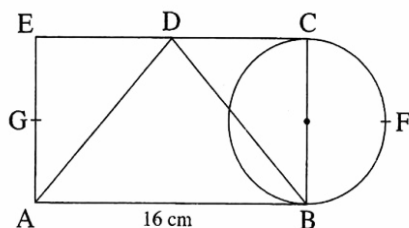
ABCE is a rectangle CB is diameter of a circle Area of circle is 154 cm², AB = 16 cm.

153. If AB is base of triangle ADB. How much is its Height ?
(A) 14 cm   (B) 22 cm
(C) 19 cm   (D) 18 cm

154. Circumference of arc CFB is :
(A) 28 cm   (B) 22 cm
(C) 26 cm   (D) 18 cm

155. If line FG passes through the centre of the circle, what is the length of the line ?
(A) 22 cm   (B) 25 cm
(C) 28 cm   (D) 23 cm

Directions—(Q. No. 156–159) : Study the given figure and answer the following questions :
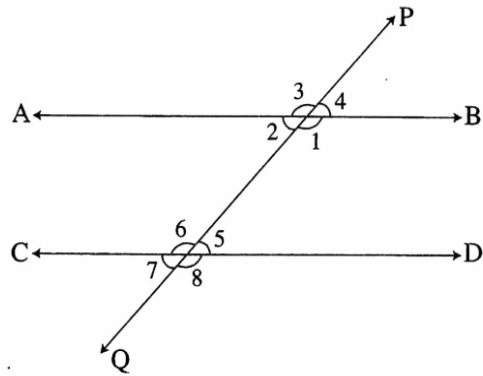
Line segment AB is parallel to CD and PQ is its transversal.

156. $\angle 1$ and $\angle 8$ are :
(A) alternate angles
(B) co-interior angles
(C) straight angles
(D) corresponding angles

157. $\angle 2 + \angle 6 = ?$
(A) 90°   (B) 180°
(C) $2\angle 2$ (D) None of these

158. $\angle 4 + \angle 5 = ?$
(A) 90°   (B) 180°
(C) $2\angle 4$ (D) None of these

159. $\angle 2$ and $\angle 5$ are :
(A) alternate angles
(B) corresponding angles
(C) co-interior angles
(D) reflex angle

160. 4 : 5 is equal to ………
(A) 125%   (B) 80%
(C) 60%   (D) 40%

161. The average of four consecutive even numbers A, B, C and D is 37. What is the product of A and C ?
(A) 1520   (B) 1368
(C) 1292   (D) 1224

Note—(Q. No. 162–165) : What approximate value will come in place of the question mark (?) in the following questions.

162. $44\cdot98 \times 2\cdot12 + 231\cdot112 = ?$
(A) 320   (B) 326
(C) 310   (D) 300

163. 25% of 2 hours = ?
(A) 25 minutes   (B) 30 minutes
(C) 40 minutes   (D) 20 minutes

164. $540 \div 3\cdot12 \div 0\cdot54 = ?$
(A) 360   (B) 400
(C) 325   (D) 380

165. $323 \cdot 11 + 729 \cdot 82 + 11 \cdot 01 + 15 \cdot 542 = ?$
(A) 1120   (B) 1160
(C) 1080   (D) 1100

166. The area of a square is 441 m². Its side is equal to the radius of a circle. The circumference of the circle is :
(A) 92 m   (B) 152 m
(C) 132 m   (D) 112 m

167. A person sold 20 apples for ₹ 100 and earned 20% profit. How many apples did he buy for ₹ 100 ?
(A) 20   (B) 22
(C) 24   (D) 25

168. How many 3 digit numbers can be formed by using the digits 6, 0, 4 when repetition of digits is allowed ?
(A) 4   (B) 10
(C) 16   (D) 18

169. The product of the place values of two threes in 53432 is :
(A) 9000   (B) 90000
(C) 10000   (D) 99000

170. Every counting number has an infinite number of :
(A) Factor   (B) Multiple
(C) Prime Factors   (D) None of these

171. Which Number has infinite number of factors ?
(A) 0   (B) 1
(C) 2   (D) None of these

172. Total Number of faces of a Cuboid is :
(A) 4   (B) 6
(C) 8   (D) 12

173. A brick is an example of a :
(A) Cube   (B) Cuboid
(C) Prism   (D) Cylinder

174. Which of the numbers are twin primes ?
(A) (19, 25)   (B) (11, 13)
(C) (21, 27)   (D) (47, 51)

175. The number of faces of a triangular pyramid is :
(A) 3   (B) 4
(C) 6   (D) 8

176. Which one of the following is different from the others ?
DFH, KMO, RTV, TWZ
(A) KMO   (B) RTV
(C) TWZ   (D) DFH

177. Which number will come next in the following series ?
5, 16, 51, 158, ?
(A) 1458   (B) 483
(C) 1452   (D) 481

178. Which one of the following pairs has the same connection as in between GJ and QU ?
(A) BC and WZ   (B) AB and ST
(C) AD and SW   (D) DH and VY

179. In a certain code, PAN is written as 31 and PAR is written as 35, then in this code, PAT is written as :
(A) 30   (B) 37
(C) 38   (D) 39

180. The relationship that exists between 3 and 11 will exist between 7 and _ ?
(A) 22   (B) 29
(C) 18   (D) 51

181. Find the wrong term in the following sequences :
2, 3, 6, 12, 45, 157·5
(A) 2   (B) 12
(C) 45   (D) 6

182. Complete the sequence with the correct option from the following codes :
M, T, W, T, ..., ..., ...
(A) F, S, T   (B) F, S, S,
(C) S, F, T   (D) T, F, S

183. Complete the series :
0, 6, 24, ?, 120
(A) 60   (B) 75
(C) 48   (D) 45

184. Complete the series :
26 : 5 : : 82 : ?
(A) 6   (B) 9
(C) 7   (D) 8

185. In a certain code language, 'ANGLE' is coded as BMHKF. How will SQUARE be coded in the same code language ?
(A) TPTZSD   (B) TPVZSD
(C) RRTBQF   (D) TPVBSD

186. What should come in place of the question mark (?) in the following sequence ?
5, 26, 19, 122, 41, 338, ?
(A) 69   (B) 519
(C) 71   (D) 505

187. Order of the last 15 letters of the English alphabetical series is reversed, Find the 22nd letter from the beginning.
(A) R   (B) P
(C) Q   (D) O

188. If the 4th day of a month is saturday, which day will be the 5 day before 26th of this month ?
(A) Monday   (B) Tuesday
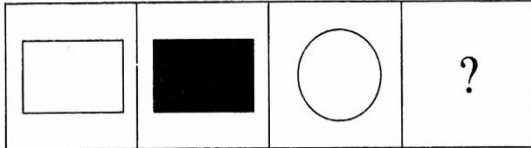(C) Friday   (D) Sunday

189. In a code language, COULD is written as BMTJC and MARGIN as LYQEHL. How will MODELING be written in the same code language ?
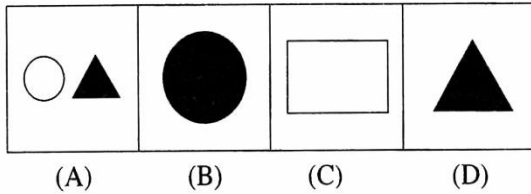   (A) LMCCKGME   (B) LMCFJGME
   (C) LMCCJGME   (D) MLFCGJME

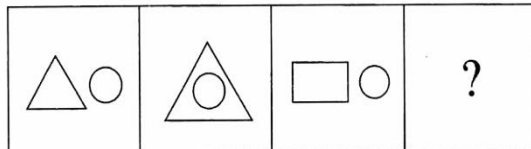190. Find the odd one out.
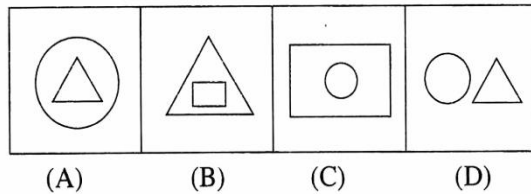   (A) 324   (B) 861
   (C) 629   (D) 676
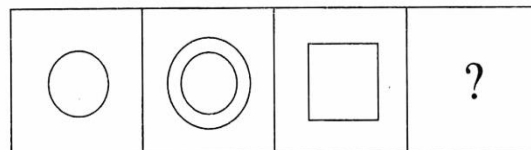
191. **Problem Figures :**

   Answer Figures :

   (A)   (B)   (C)   (D)

192. **Problem Figures :**

   Answer Figures :

   (A)   (B)   (C)   (D)

193. **Problem Figures :**

   Answer Figures :

   (A)   (B)   (C)   (D)
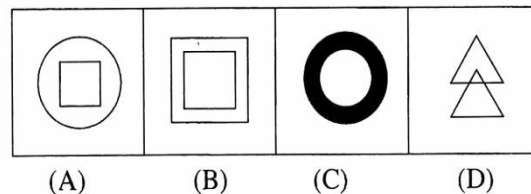
194. **Problem Figures :**

   Answer Figures :

   (A)   (B)   (C)   (D)
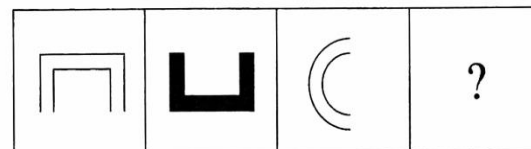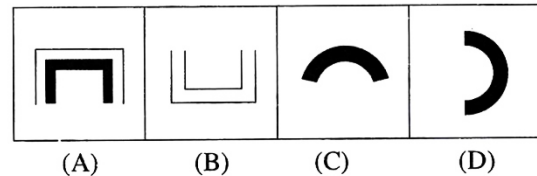
195. **Problem Figures :**

   Answer Figures :

   (A)   (B)   (C)   (D)
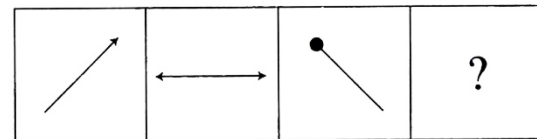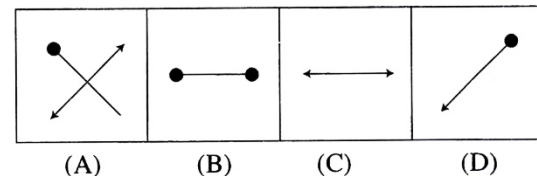
196. 'Horse' is related to 'Hoof' in the same way as 'Eagle' is related to—
   (A) Clutch   (B) Leg
   (C) Claw   (D) Foot

197. Bird : Wing : : Fish : ?
   (A) Tail   (B) Fin
   (C) Water   (D) Push

198. E 25, G 49, I 81, K 121, ?
   (A) M 169   (B) N 169
   (C) M 196   (D) N 196

199. TPB, WSE, ZVH, ?
   (A) BZK   (B) BAK
   (C) CAK   (D) CYK

200. 2, 10, 30, 68, 130, ?
   (A) 196   (B) 240
   (C) 220   (D) 222