LABOUR INSPECTORS UNDER THE ADMINISTRATIVE CONTROL OF LABOUR DEPARTMENT (DEC 2021)

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

SERIES : I

Booklet Serial No. **20761**

QUESTION BOOKLET

Subjects : General English, General Knowledge & Aptitude and Mathematics

Full Marks : 300 **Time Allowed : 2½ Hours**

Read the following instructions carefully before you begin to answer the questions.

INSTRUCTIONS TO CANDIDATES

1. This Booklet contains **150 questions** to be answered in a separate OMR Answer Sheet using Black Ballpoint Pen in the following three Parts :

Part—A : General English	:	**50 questions**
Part—B : General Knowledge & Aptitude	:	**75 questions**
Part—C : Mathematics	:	**25 questions**

2. **All** questions are compulsory.
3. You will be supplied the Answer Sheet separately by the Invigilator. You must complete the details of particulars asked for.
4. Answer must be shown by completely blackening the corresponding circle in the Answer Sheet against the relevant question number by Black Ballpoint Pen. OMR Answer Sheet without marking Series shall not be evaluated.

   Example **:**
   Suppose the following question is asked :

   The Capital of Meghalaya is

   (A) Guwahati
   (B) Kohima
   (C) Shillong
   (D) Delhi

   You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below :

   Ⓐ Ⓑ Ⓒ Ⓓ

   In the above illustration, if your chosen response is alternative (C), i.e., Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ballpoint Pen only as below :

   Ⓐ Ⓑ ● Ⓓ

   The example shown above is the only correct method of answering.
5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.
6. There will NOT be any negative marking for wrong answers.
7. The Answer Sheet must be handed over to the Invigilator before you leave the Examination Hall.
8. No Rough Work is to be done on the Answer Sheet. Space for Rough Work has been provided in the Question Booklet.

SEAL

PART—A : GENERAL ENGLISH

(*Marks* : 100)

Each question carries **2** marks

***Direction* (Q. Nos. 1–10) : In these sentences, out of the four alternatives given, choose the one which best expresses the meaning of the word in *italics*.**

1. He *ambled* towards his brother and whispered something.

(A) leaned

(B) bent

(C) stooped

(D) strolled

2. The sweet smell of mangoes attracted bees and birds which *flocked* around them.

(A) congregated

(B) converged

(C) covered

(D) assimilated

3. We arrived at a conclusion that there was a *paucity* of raw materials.

(A) abundance

(B) availability

(C) scarcity

(D) price rise

4. After the battle was over, the soldier was accused of *perfidy*.

(A) treason

(B) heresy

(C) fallacy

(D) cowardice

5. My father had always been an *adorable* man.

(A) amiable

(B) upright

(C) delightful

(D) admirable

6. The Chairperson *admonished* the Secretary.

(A) administered

(B) warned

(C) advised

(D) appointed

7. They talked about India's economic security *vis-à-vis* global recession.

(A) in relation to

(B) as well as

(C) against

(D) in spite of

8. There was *opulence* in the farm when the farmer's son had joined the farm.

(A) prosperity

(B) wealth

(C) brilliance

(D) turbulence

9. I was too tired of his *puerile* behavior.

(A) immature

(B) premature

(C) gibberish

(D) notorious

10. My mother had always guided me with sufficient *prudence.*

(A) patience

(B) caution

(C) persistence

(D) surety

Direction* (Q. Nos. 11–20) : In these sentences, out of the four alternatives given, choose the one which is opposite in meaning of the word in *italics.

11. She is not reflecting any kind of *perseverance* in this matter.

(A) vacillation

(B) disapproval

(C) justification

(D) disharmony

12. Man has a *surplus* of knowledge that animals lack.

(A) dearth

(B) disadvantage

(C) excess

(D) loss

13. They are the *contemporary* poets emerging in the latest anthologies.

(A) old-fashioned

(B) antiquated

(C) outnumbered

(D) romantic

14. There are certain new methods of *solving* these problems.

(A) complicating

(B) insolving

(C) confusing

(D) enforcing

15. We all have *vowed* to abide by the rules of the organization.

(A) disclaimed

(B) distrust

(C) renounced

(D) unvowed

16. She is tired of the *frequent* visits from her relatives.

(A) discriminate

(B) moderate

(C) rational

(D) occasional

17. Raima has never *claimed* any share of the property for herself.

(A) disowned

(B) disclaimed

(C) abstained

(D) refrained

18. He is much *apprehensive* about his reputation.

(A) unconcerned

(B) comprehensive

(C) rudderless

(D) undisturbed

19. I am not going to *pacify* anybody even if they do not agree.

(A) rectify

(B) aggravate

(C) modify

(D) subjugate

20. She is as *self-complacent* as her brother.

(A) selfish

(B) demure

(C) lowly

(D) self-assertive

***Direction* (Q. Nos. 21–30) : Fill in the blanks with the appropriate preposition from the options given.**

21. We are delighted to go _____ a trip to France.

(A) to

(B) on

(C) in

(D) down

22. At the dawn of history, India started _____ her unending quest.

(A) at

(B) in

(C) on

(D) about

23. He resides in a small hut _____ the river.

(A) by

(B) over

(C) before

(D) around

24. They became indignant _____ the living images that the prosperous tradesmen had projected.

(A) for

(B) on

(C) over

(D) under

25. The epidemic had broken _____ in the village quite fast.

(A) with

(B) on

(C) up

(D) out

26. She has been putting _____ weight since I met her for the first time.

(A) on

(B) in

(C) up

(D) off

27. He has been chafed enough _____ her authoritative gaze.

(A) under

(B) below

(C) at

(D) in

28. She has jumped _____ the conclusion without bothering to know the whole story.

(A) for

(B) in

(C) to

(D) into

29. Richie has gone _____ for fishing.

(A) by

(B) out

(C) up

(D) through

30. The cat had jumped _____ the tin roof as it was very hot.

(A) off

(B) onto

(C) unto

(D) into

***Direction* (Q. Nos. 31–45) : In the following sentences, four alternatives are given for the given idiom/phrase. Choose the alternative which best expresses the meaning of the idiom/phrase given in italics.**

31. I can get an *eagle's eye view* from this part of the building.

(A) close-up view

(B) dim view

(C) sharp view

(D) picture from high up in the sky

32. She has just delivered her *maiden speech.*

(A) debut speech

(B) powerless speech

(C) remarkable speech

(D) feeble speech

33. His son had *gone to sea.*

(A) become a spoilt brat

(B) become a sailor

(C) gone out of hand

(D) become confused

34. The agenda is *under the carpet.*

(A) hidden

(B) under discussion

(C) kept secret

(D) neglected

35. The student has *walked after* his teacher.

(A) ran after

(B) imitated

(C) listened to

(D) harrowed

36. The young girl is trying her best *to reach the zenith.*

(A) to climb up to the peak

(B) to ascend the stairs

(C) to achieve the highest glory

(D) to reach the terrace

37. She is *out and out* an ambitious woman.

(A) absolutely

(B) flexibly

(C) outwardly

(D) obviously

38. The tomatoes are *dime a dozen* in the vegetable market.

(A) very commonly found

(B) a score

(C) very costly

(D) more than a dozen

39. The old man had to survive on *bread and water.*

(A) meager food

(B) rich food

(C) healthy food

(D) prescribed food

40. At the end of the day, he is the one who has *stirred up the hornet's nest.*

(A) caused trouble

(B) revealed a secret

(C) completed the mission

(D) solved the issue

41. It has been *raining cats and dogs* since last Monday.

(A) raining regularly

(B) raining very heavily

(C) raining indifferently

(D) raining habitually

42. My mother had called *all and sundry* for the party.

(A) dignitaries

(B) all the members of the assembly

(C) everyone

(D) men of letters

43. The student turned into *a deer in headlights* when she was found cheating in the examination hall.

(A) to be caught in a state of bewilderment

(B) to be caught in a wrong position

(C) to be in a mischievous position

(D) suppressing shame

44. Riya is determined not to *beat around the bush* while narrating what has happened.

(A) burst the secrets

(B) clarify the important points

(C) talk about many unimportant and confusing things

(D) talk about disappointing matters

45. I used to go to the market *once in a blue moon.*

(A) occasionally

(B) on important occasions

(C) once in every fifteen days

(D) once in every month

***Direction* (Q. Nos. 46–50) : In these sentences, some have errors and some have none. Find out which part of the sentence (A), (B), (C) has an error and select that part as an answer. If there is no error, then (D) is the answer.**

46. She has been (A) / residing in this locality (B) / for the last four years. (C) / No error (D)

47. I wanted a little more (A) / than what (B) / I have got. (C) / No error (D)

48. When I reached the house (A) / she had danced (B) / in the drawing room. (C) / No error (D)

49. The effect of all these (A) / the world (B) / was soothing. (C) / No error (D)

50. Simply draw out (A) / a sample pattern (B) / on the layout plan. (C) / No error (D)

PART—B : GENERAL KNOWLEDGE & APTITUDE

(*Marks* : 150)

Each question carries **2** marks

51. The sum of the present ages of a son and his father is 60 years. Six years ago, father's age was five times the age of the son. After 6 years, what will be the son's age?

(A) 20 years

(B) 21 years

(C) 22 years

(D) 23 years

52. In one hour, a boat goes 14 km/hr along the stream and 8 km/hr against the stream. The speed of the boat in still water is

(A) 8 km/hr

(B) 11 km/hr

(C) 12 km/hr

(D) 10 km/hr

53. How many times in a day, are the hands of a clock in straight line but opposite in direction?

(A) 12

(B) 22

(C) 24

(D) 48

54. The angle between the minute hand and the hour hand of a clock, when the time is 8:30, is

(A) 75°

(B) 85°

(C) 80°

(D) 70°

55. *A* can do a piece of work in 10 days and *B* can do it in 15 days. They work together for 5 days and the rest of the work is finished by *C* in two more days. If they got ₹ 6,000 as wages for the whole work, then find the daily wages of *A*, *B* and *C*.

(A) ₹ 600, ₹ 400, ₹ 500

(B) ₹ 400, ₹ 600, ₹ 800

(C) ₹ 400, ₹ 500, ₹ 600

(D) None of the above

56. If $A:B:C=2:3:4$, then the ratio $\frac{A}{B}:\frac{B}{C}:\frac{C}{A}$ will be

(A) 8 : 9 : 16

(B) 8 : 9 : 12

(C) 8 : 9 : 24

(D) 4 : 9 : 16

57. A train moving at a speed of 90 km/hr crosses a pole in 7 seconds. Find the length of the train.

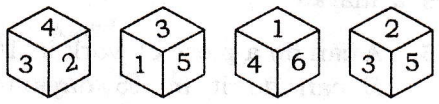
(A) 150 m

(B) 165 m

(C) 175 m

(D) 170 m

58. The position of dices are given below. Identify the number at bottom when the top is 5.



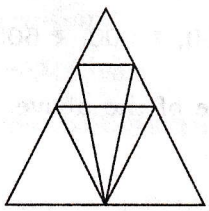
(A) 6

(B) 3

(C) 2

(D) 4

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



(A) 16

(B) 23

(C) 22

(D) 18

60. In a row of girls, Alisha and Cinthya occupy the ninth place from the right end and tenth place from the left end, respectively. If they interchange their places, then Alisha and Cinthya occupy seventeenth place from the right and eighteenth place from the left respectively. How many girls are there in the row?

(A) 26

(B) 20

(C) 21

(D) 19

61. *A* is the mother of *B*. *B* is the sister of *C*. *D* is the son of *C*. *E* is the brother of *D*. *F* is the mother of *E*. *G* is the granddaughter of *A*. *H* has only two children *B* and *C*. How is *F* related to *H*?

(A) Son-in-law

(B) Daughter-in-law

(C) Father-in-law

(D) Cannot be determined

62. *Z* is shorter than *Y* but taller than *X*. *W* is shorter than *Z* but taller than *X* and *V* is shorter than *Y* but taller than *Z*. The shortest person is

(A) *Z*

(B) *X*

(C) *Y*

(D) *V*

63. Zara is 6 ranks ahead of Anokhi in a class of 42 students. If Anokhi's rank is eighteenth from the last, then what is Zara's rank from the start?

(A) 14th

(B) 19th

(C) 17th

(D) 16th

64. The value of 40 coins of 10 paisa and 20 paisa is ₹ 5·50. The number of 20 paisa coins is

(A) 15

(B) 25

(C) 30

(D) 35

65. In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts all 90 questions and secures 140 marks, the number of questions he attempts correctly is

(A) 35

(B) 40

(C) 42

(D) 46

66. If rain is called water, water is called air, air is called cloud, cloud is called sky, sky is called sea, sea is called road, where do the airplanes fly?

(A) Water

(B) Road

(C) Sea

(D) Cloud

67. Robert walks 30 meters in the north direction, after that he takes a right turn and walks 40 meters. After that he takes a right turn and walks 40 meters more and finally he takes a right turn and stops after walking 40 meters. Find the distance of Robert from the initial position.

(A) 50 meters

(B) 10 meters

(C) 15 meters

(D) 20 meters

68. Shobha was facing East. She walked 20 meters. Turning left, she moved 15 meters and then turning right, moved 25 meters. Finally, she turned right and moved 15 meters more. How far is she from her starting point?

(A) 20 meters

(B) 35 meters

(C) 40 meters

(D) 45 meters

69. What should come in place of question mark(?) in the following number series?

2, 17, 45, 99, 205, ?

(A) 453

(B) 455

(C) 451

(D) 415

70. What will come in place of question mark (?) in the following series?

767, 495, 359, 291, 257, ?

(A) 240

(B) 180

(C) 200

(D) 220

71. Find out the number which ***does not*** follow the pattern (the odd one) in the given series :

8 27 64 100 125 216 343

(A) 8

(B) 100

(C) 216

(D) 343

72. In a 500 meter race, the ratio of the speed of two contestants X and Y is 3 : 4. Y gives X a head start of 140 meters. Then who will win the race?

(A) X will win the race by 20 meters

(B) Y will win the race by 20 meters

(C) X will win the race by 15 meters

(D) Both X and Y will reach the finish line at the same time

73. What is the probability of getting a sum of 9 from two throws of a dice?

(A) $\frac{1}{6}$

(B) $\frac{1}{8}$

(C) $\frac{1}{9}$

(D) $\frac{1}{4}$

74. A watch gains 5 seconds in 3 minutes and it was set right at 7 a.m. In the afternoon of the same day, when the watch indicated quarter past 4 o' clock, the true time is

(A) 50 minutes past 3

(B) 4 p.m.

(C) 55 minutes past 3

(D) 2 minutes past 4

75. Find the number of non-negative integer solutions to the equation

$$x_1 + x_2 + x_3 + x_4 \leq 15$$

(A) 3145

(B) 4845

(C) 3060

(D) 3876

76. *The Maratha* and *The Kesari* were the two main newspapers started by

(A) Lala Lajpat Rai

(B) Gopal Krishna Gokhale

(C) Bal Gangadhar Tilak

(D) Madan Mohan Malaviya

77. Who among the following was the first Defence Minister of India?

(A) K. M. Cariappa

(B) Sardar Patel

(C) Baldev Singh

(D) Abul Kalam Azad

78. Who among the following is the present Education Minister of India?

(A) Pralhad Joshi

(B) Ramesh Pokhriyal

(C) Prakash Javadekar

(D) Dharmendra Pradhan

79. Mahatma Gandhi founded the _____ newspaper in 1903 at South Africa.

(A) *Indian Opinion*

(B) *Harijan*

(C) *Indian Speaker*

(D) *India News*

80. Which of the following cricketers holds the world record for being the captain of test cricket team for maximum number of matches?

(A) Allan Border

(B) Alec Stewart

(C) Sunil Gavaskar

(D) Graeme Smith

81. The Sardar Sarovar Project is based on the river

(A) Godavari

(B) Tapti

(C) Narmada

(D) Krishna

82. The founder of Boy Scouts and Civil Guides was

(A) Charles Andrews

(B) Robert Montgomery

(C) Richard Temple

(D) Baden-Powell

83. Pure water freezes at what temperature?

(A) 47 °F

(B) 32 °F

(C) 0 °F

(D) 19 °F

84. Name the Governor General who abolished Sati in 1829.

(A) Lord Clive

(B) Lord Curzon

(C) Lord William Bentinck

(D) Lord Dalhousie

85. Which among the following is the chief ore of aluminium?

(A) Iron

(B) Cryolite

(C) Bauxite

(D) Haematite

86. Which of the following banks was amalgamated into Punjab National Bank (PNB) during the mega merger of April 2020?

(A) Canara Bank

(B) Allahabad Bank

(C) Syndicate Bank

(D) Oriental Bank of Commerce

87. Red Cross was founded by

(A) A. Cursetjee

(B) Baden-Powell

(C) Henry Dunant

(D) Trygve Lie

88. The largest part of the human brain is

(A) cerebellum

(B) midbrain

(C) cerebrum

(D) medulla oblongata

89. The government has launched the Regional Airport Development Programme and part of the Regional Connectivity Scheme of upgrading under-serviced air routes 'UDAN'. What does 'D' stand for in 'UDAN'?

(A) Din

(B) Diwas

(C) Dangal

(D) Desh

90. Who was the first woman Governor of Jharkhand?

(A) Pushpa Devi

(B) Sabita Mahato

(C) Sita Murmu

(D) Droupadi Murmu

91. Which Indian pharmaceutical company developed ZyCoV-D, the world's first plasmid DNA vaccine against COVID-19?

(A) Serum Institute of India

(B) Zydus Cadila

(C) Dr. Reddy's Laboratories

(D) Bharat Biotech

92. How many elements are there in the periodic table?

(A) 113 (B) 72

(C) 102 (D) 118

93. Which planet has the most number of moons?

(A) Saturn (B) Neptune

(C) Uranus (D) Jupiter

94. First Indian woman to win the Man Booker Prize was

(A) Kiran Desai

(B) Avni Doshi

(C) Geetanjali Shree

(D) Arundhati Roy

95. Which city is known as the 'Eternal City'?

(A) New York

(B) Paris

(C) Rome

(D) Kolkata

96. Which planet in the solar system has a blue-green colour?

(A) Pluto (B) Venus

(C) Uranus (D) Mars

97. Golf player Vijay Singh who was ranked number 1 for 32 weeks between 2004 and 2005 belongs to which country?

(A) USA

(B) Fiji

(C) India

(D) UK

98. Fathometer is used to measure

(A) earthquakes

(B) rainfall

(C) ocean depth

(D) sound intensity

99. The developer(s) of Yahoo was/were

(A) Jerry Yang and David Filo

(B) Larry Page

(C) Ray Tomlinson

(D) T. Leo Burns

100. Red dunes also known as 'theri', which dates back to Quaternary period, is found in which of the following Indian States?

(A) Rajasthan

(B) Gujarat

(C) Punjab

(D) Tamil Nadu

101. Who discovered the sea route to India via 'Cape of Good Hope'?

(A) Vasco da Gama

(B) Amundsen

(C) Christopher Columbus

(D) John Cabot

102. With respect to the 2022 FIFA World Cup, what is 'Al Rihla'?

(A) Motto of the World Cup

(B) The Official Match Ball

(C) Name of the Mascot

(D) The Players' Village

103. Which was the first online chat system?

(A) Skype

(B) eBuddy

(C) Google Talk

(D) Talkomatic

104. The line that demarcates the boundary between India and Pakistan is

(A) McMahon Line

(B) Durand Line

(C) Radcliffe Line

(D) None of the above

105. Which day is observed as the World Population Day?

(A) 14th November

(B) 1st December

(C) 11th July

(D) 5th June

106. Which organization has launched a campaign called '#StayHomeIndiaWith Books' to encourage people to stay home amid the COVID-19 pandemic?

(A) National Book Trust

(B) NCERT

(C) NIOS

(D) Press Trust of India

107. Which two countries share the longest land border?

(A) United States and Canada

(B) Russia and China

(C) India and Bangladesh

(D) Russia and Kazakhstan

108. Launched by India's Agriculture Minister Narendra Singh Tomar in 2022, which of the following is the name of a homegrown Indian COVID-19 vaccine for animals?

(A) Corbevax

(B) Covovax

(C) Anocovax

(D) Novavax

109. Who worked as Project Director in developing Agni IV and is also known as India's 'Missile Woman'?

(A) Ritu Karidhal

(B) Anuradha T. K.

(C) Muthayya Vanitha

(D) Tessy Thomas

110. Which of the following cities is ***incorrectly*** paired with the river that flows through it?

(A) Delhi-Yamuna

(B) Lucknow-Gomti

(C) Nagpur-Godavari

(D) Tiruchirappalli-Kaveri

111. Announced on 15th September, 2021, AUKUS is a trilateral security pact between which countries?

(A) United States, United Kingdom and Ukraine

(B) United States, Australia and Ukraine

(C) United States, United Kingdom and Australia

(D) United Kingdom, Ukraine and Australia

112. Name the organization that has launched Operation Nanhe Farishte to prevent trafficking of children.

(A) Indian Railways

(B) Coast Guard

(C) Central Reserve Police Force

(D) Border Security Force

113. Who is the present Chief Executive Officer of Apple company?

(A) Steve Jobs

(B) Steve Wozniak

(C) John Ternus

(D) Tim Cook

114. Who is known as the father of Green Revolution in India?

(A) M. S. Swaminathan

(B) Verghese Kurien

(C) Captain Gopinath

(D) Sunderlal Bahuguna

115. Which of the following is an example of Piedmont Plateau?

(A) Tibetan Plateau

(B) Bolivian Plateau

(C) Malwa Plateau

(D) Ladakh Plateau

116. Eight cheetahs were brought from Namibia and released in which National Park of India on 17th September, 2022 to coincide with Prime Minister Narendra Modi's birthday?

(A) Gir National Park

(B) Kuno National Park

(C) Ranthambore National Park

(D) Periyar National Park

117. The deficiency of vitamin C causes which of the following diseases?

(A) Night blindness

(B) Beriberi

(C) Scurvy

(D) Rickets

118. For galvanizing iron, which of the following metals is used?

(A) Brass (B) Copper

(C) Lead (D) Zinc

119. Eugenics is the study of

(A) altering human beings by changing their genetic components

(B) people of European origin

(C) different races of mankind

(D) genetics of plants

120. National Voters' Day is observed in India on

(A) 25th January

(B) 24th January

(C) 25th June

(D) 24th July

121. Spain won the title of the FIFA U-17 Women's World Cup 2022, after defeating which country in the final that was held at the D. Y. Patil Sports Stadium?

(A) Germany

(B) Brazil

(C) Colombia

(D) United States of America

122. To ease the loan process, which of the following States has launched a common credit portal named Simplified Application for Agricultural Loans (SAFAL)?

(A) Odisha

(B) West Bengal

(C) Maharashtra

(D) Punjab

123. Which of the following cities is known as the Manchester of South India?

(A) Coimbatore

(B) Chennai

(C) Madurai

(D) Mysuru

124. Who is the founder of the Gupta dynasty?

(A) Samudragupta

(B) Chandragupta I

(C) Vishnugupta

(D) Sri Gupta

125. What is the time difference between Indian Standard Time and Greenwich Mean Time?

(A) 5 hours 10 minutes

(B) 4 hours 20 minutes

(C) 5 hours 30 minutes

(D) 6 hours 30 minutes

PART—C : MATHEMATICS

(*Marks* : 50)

Each question carries **2** marks

126. The value of $4\frac{5}{6}+7\frac{1}{2}-5\frac{8}{11}$ is

(A) $2\frac{10}{33}$

(B) $2\frac{20}{33}$

(C) $6\frac{10}{33}$

(D) $6\frac{20}{33}$

127. The ratio of the ages of *A* and *B* seven years ago was 3 : 4. The ratio of their ages nine years hence will be 7 : 8. What is *B*'s present age?

(A) 16 years

(B) 19 years

(C) 23 years

(D) 28 years

128. An article was bought for ₹ 5,600. Its price was marked up by 12%. Thereafter it was sold at a discount of 5% on the marked price. What was the amount of discount given?

(A) ₹ 303·60

(B) ₹ 313·60

(C) ₹ 323·60

(D) ₹ 343·60

129. The average speed of a train is 3 times the average speed of a car. The car covers a distance of 520 km in 8 hours. How much distance will the train cover in 13 hours?

(A) 2535 km

(B) 2553 km

(C) 2585 km

(D) 2355 km

130. The area of a triangle is half the area of a square. The perimeter of the square is 224 cm. The area of the triangle is

(A) 1558 cm^2

(B) 1568 cm^2

(C) 2658 cm^2

(D) 3136 cm^2

131. The compound interest accrued on an amount of ₹ 8,500 in 2 years at the rate of 10% p.a. is

(A) ₹ 1,875

(B) ₹ 1,785

(C) ₹ 1,885

(D) ₹ 1,775

132. The average of five consecutive odd numbers is 95. What is the fourth number in descending order?

(A) 97

(B) 91

(C) 95

(D) 93

133. A and B can finish a work in 18 hours, B and C in 12 hours and A and C in 15 hours. How long will they take to complete the work if they work together?

(A) 13 hours

(B) $22\frac{1}{2}$ hours

(C) $4\frac{32}{37}$ hours

(D) $9\frac{27}{37}$ hours

134. A train passes a platform 100 m long in 15 seconds and a man standing on the platform in 10 seconds. The speed of the train is

(A) 38 km/hr

(B) 56 km/hr

(C) 72 km/hr

(D) 75 km/hr

135. Alex sold his radio set at 10% loss. If he had sold it for ₹ 45 more, he would have made 5% profit. For how much did he sell the radio?

(A) ₹ 270

(B) ₹ 300

(C) ₹ 315

(D) ₹ 435

136. Out of a sum of ₹ 625, a part was lent at 5% and the other at 10% simple interest. If the interest on the first part after 2 years is equal to the interest on the second part after 4 years, then the second sum is equal to

(A) ₹ 300

(B) ₹ 250

(C) ₹ 200

(D) ₹ 125

137. A father left a will of ₹ 16,400 for his two sons aged 17 and 18 years. They must get equal amounts when they are 20 years at 5 percent compound interest. Find the present share of the younger son.

(A) ₹ 8,000

(B) ₹ 9,000

(C) ₹ 10,000

(D) ₹ 11,000

138. In a Legislative Assembly, the ratio of the ruling party to the opposition party was 7 : 3. Due to 18 members leaving the ruling party and joining the opposition party, the ratio was reduced to 3 : 2. What was the total strength of the Assembly?

(A) 240

(B) 220

(C) 180

(D) 160

139. If $x^2 \propto y^3$ and $x = 3$ when $y = 5$, then the relation between x and y is

(A) $125x^2 + 9y^3 = 0$

(B) $125x^3 + 9y^2 = 0$

(C) $125x^2 - 9y^3 = 0$

(D) $125x^3 - 9y^2 = 0$

140. A, B and C enter into a partnership. A contributes one-third of the capital while B contributes as much as A and C together contribute. If the profit at the end of the year amounts to ₹ 840, what would C receive?

(A) ₹ 560

(B) ₹ 420

(C) ₹ 280

(D) ₹ 140

141. The average weight of X, Y and Z is 45 kg, that of X and Y is 40 kg, and of Y and Z is 43 kg. What is the weight of Y?

(A) 17 kg

(B) 20 kg

(C) 26 kg

(D) 31 kg

142. The LCM of $\frac{2}{3}$ and $\frac{4}{9}$ is

(A) $\frac{2}{3}$

(B) $\frac{4}{3}$

(C) $\frac{4}{9}$

(D) $\frac{2}{9}$

143. The produce of a square field when sold at the rate of ₹ 1·50 per 100 sq. meters fetches ₹ 1,350. What will be the cost of putting a fence all around the field at the rate of 50 paise per meter?

(A) ₹ 540

(B) ₹ 575

(C) ₹ 600

(D) ₹ 675

144. What is the maximum length of a pencil that can be kept in a rectangular box of dimensions 8 cm × 6 cm × 2 cm?

(A) 96 cm

(B) $\sqrt{104}$ cm

(C) 16 cm

(D) $\sqrt{56}$ cm

145. If a cylinder is inscribed in a cube in such a way that the ends of the cylinder are on the opposite faces of the cube, then what is the ratio of the volumes of the cube to the cylinder?

(A) 1 : 1

(B) 2 : π

(C) 4 : π

(D) π : 3

146. A person of height 2 meters wants to get a fruit which is on a pole of height $\frac{10}{3}$ meters. If he stands at a distance of $\frac{4}{\sqrt{3}}$ meters from the foot of the pole, then the angle at which he should throw the stone so that it hits the fruit is

(A) 15°

(B) 30°

(C) 45°

(D) 60°

147. The rainfall (in cm) in a city for the ten-year period 1991–2000 was recorded as follows :

89, 95, 70, 102, 29, 79, 63, 85, 72, 50

The mean rainfall is

(A) less than 40 cm

(B) between 90 cm and 100 cm

(C) less than 100 cm

(D) more than 100 cm

148. The equation $x^2 - (2\tan\alpha)x - 1 = 0$, where $0 < \alpha < 90°$, has

(A) equal roots

(B) real and distinct roots

(C) no real roots

(D) None of the above

149. If $(78)^2$ is subtracted from the square of a number, the answer so obtained is 6460. What is the number?

(A) 112

(B) 113

(C) 114

(D) 115

150. In an examination, it is required to get 40% of the maximum marks to pass. A student gets 261 marks and is declared failed by 4% marks. What is the maximum marks a student can get?

(A) 700

(B) 725

(C) 745

(D) 765