136. \[ (-1\frac{2}{7}) + (-3\frac{5}{7}) + (6\frac{4}{7}) \] is ————.

(A) \( \frac{3}{7} \)

(B) \( \frac{5}{7} \)

(C) \( \frac{11}{7} \)

(D) \( \frac{19}{7} \)

137. The population of a city in the year 2014 is 1,80,000 and increases at a rate of 20% per year. Find the population of the city in the year 2016?

(A) 2,40,000

(B) 2,59,200

(C) 2,55,000

(D) 2,54,300
138. 3 – 25 here, which of the following number is suitable in –, so that the number will be a perfect square?

(A) 1
(C) 4
(D) 6

139. The average mark of 10 children is 80 then their total mark is

(A) 200
(C) 800
(D) 400

140. A man and woman are engaged in a work. A man can do a piece of work in 4 days and the woman can do in 12 days. Find how many days will they take to finish it together?

(A) 6 days
(C) 4 days
(D) 3 days
141. Which of the following set of measurements will form a right angle triangle?

(A) 6, 9, 12
(B) 5, 8, 10
(C) 5, 5, 5√2
(D) 3, 4, 4√2

142. The value of \( \sqrt{609 + 248 + \sqrt{60 + \sqrt{7 + \sqrt{81}}} \} } \)

(A) 20
(B) 25
(C) 16
(D) 9
143. The price of a house is decreased from rupees fifteen lakhs to rupees twelve lakhs. The percentage of decrease is

(A) 10%
(B) 20%
(C) 30%
(D) 40%

144. If \(3(t - 3) = 5(2t + 1)\) then \(t = ?\)

(A) -2
(B) 2
(C) -3
(D) 3
145. The value of \( \frac{1.75 \times 1.75 + 2 \times 1.75 \times 0.75 + 0.75 \times 0.75}{1.75 \times 1.75 - 0.75 \times 0.75} \) is

(A) 3.5
(B) 6.25
(C) 1
(D) 2.5

\[
\frac{1.75 \times 1.75 + 2 \times 1.75 \times 0.75 + 0.75 \times 0.75}{1.75 \times 1.75 - 0.75 \times 0.75}
\]

146. The value of \( 16^3 + 7^3 - 23^3 \) is

(A) \(-7728\)
(B) 7028
(C) 7728
(D) \(-7718\)

\[
16^3 + 7^3 - 23^3
\]
147. Find the next term of 4 in the series is 1, 1, 2, 8, 3, 27, 4, ...

(A) 31  (B) 29  (C) 16  (D) 64

1, 1, 2, 8, 3, 27, 4, ... என்ற கூட்டும் 4-ஆவது எல்லையை காண்க?

(A) 31  (B) 29  (C) 16  (D) 64

148. Three angles of a triangle are \(x - 30^\circ\), \(x - 45^\circ\), \(x + 15^\circ\), find the value of \(x\).

(A) 60\(^\circ\)  (B) 40\(^\circ\)  (C) 80\(^\circ\)  (D) 100\(^\circ\)

\(x - 30^\circ\), \(x - 45^\circ\), \(x + 15^\circ\) ஐ தேவையுள்ள \(x\)- ஐக் காண்க?

(A) 60\(^\circ\)  (B) 40\(^\circ\)  (C) 80\(^\circ\)  (D) 100\(^\circ\)

149. The difference between simple interest and compound interest for a sum of Rs. 12,000 lent at 10% per annum in 2 years, is

(A) Rs. 80  (B) Rs. 90  (C) Rs. 120  (D) Rs. 100

12,000-ஆக 10\% விற்கைக் காலத்தில் கொடுக்கப்பட்டுள்ள தொகை மையத்திலுள்ள சிம்பல் பொருளின் வினை வினைபெருக்கப் பொருள் விளக்கானைகள்

(A) ர. 80  (B) ர. 90  (C) ர. 120  (D) ர. 100
189. The base of a triangle is four times its height and its area is 50 m\(^2\). The length of the base is

- (A) 10 m
- (B) 15 m
- (C) 20 m
- (D) 25 m

190. A can do a piece of work in 20 days and B can do it in 25 days. Both of them finished the work and earned Rs. 3,600. Then A's share is

- (A) Rs. 1,600
- (B) Rs. 2,000
- (C) Rs. 3,000
- (D) Rs. 3,100
191. If \( \left( \frac{7}{12} \right)^{-4} \times \left( \frac{7}{12} \right)^{3x} = \left( \frac{7}{12} \right)^{5} \); then the value of \( x \) is

(A) \(-1\)
(B) \(1\)
(C) \(2\)
(D) \(3\)

\[
\left( \frac{7}{12} \right)^{-4} \times \left( \frac{7}{12} \right)^{3x} = \left( \frac{7}{12} \right)^{5}
\]

192. If 22 men can build a wall of 110 meters in 10 days. The length of a similar wall built by 30 men in 6 days is

(A) 100 mts
(B) 90 mts
(C) 80 mts
(D) 70 mts

22 பெண்கள் 10 நாளில் 110 மீ பொருள் கட்டுக்கொள்ள பெண்கள் மற்றும் 30 பெண்கள் 6 நாளில் 60 மீ பொருள் கட்டுக்கொள்ள

(A) 100 மீ
(B) 90 மீ
(C) 80 மீ
(D) 70 மீ
193. If the ratio of length and breadth of a rectangle is 4 : 7. Find the length while its breadth is 77 cm.
(A) 22 cm
(B) 33 cm
(C) 44 cm
(D) 55 cm

194. A room is 5 m 40 cm long and 4 m 50 cm broad. Its Area is
(A) 23.4 m²
(B) 24.3 m²
(C) 25 m²
(D) 98.01 m²
195. Simplify
\[ 5 \frac{1}{4} + 4 \frac{3}{4} + 7 \frac{5}{8} + 6 \frac{7}{8} + 11 \frac{3}{4} \]

(A) \( \frac{98}{47} \)  
(B) \( \frac{108}{49} \)  
(C) \( \frac{98}{45} \)  
(D) \( \frac{96}{47} \)

196. Find the rate of interest at which, a sum of money becomes \( \frac{9}{4} \) times in 2 years.

(A) \( 69 \frac{1}{2} \% \)  
(B) \( 67 \frac{1}{2} \% \)  
(C) \( 62 \frac{1}{2} \% \)  
(D) \( 61 \frac{1}{2} \% \)
197. The breadth, height and volume of a cuboid are 10 cm, 11 cm and 3080 cm³ respectively. Find the length of the cuboid.

(A) 21 cm  
(B) 28 cm  
(C) 24 cm  
(D) 30 cm

198. Which medicine is known as "THE QUEEN OF DRUGS"?

(A) ATROPIN  
(B) POLYMIXIN  
(C) STREPTOMYCIN  
(D) PENICILLIN
199. A man bought an old bicycle for Rs. 1,500. He spends Rs. 500 on its repair and sells it for Rs. 1,800. Find the percentage of his loss.

(A) 10%
(B) 15%
(C) 20%
(D) 5%

200. Find the LCM of $a^3b^4$, $ab^5$ and $a^2b^7$

(A) $a^7b^3$
(B) $a^3b^7$
(C) $a^2b^5$
(D) $ab^5$

Hence, the answer is $a^3b^7$. (C) $a^2b^5$
2016
GENERAL TAMIL WITH GENERAL STUDIES

Time Allowed: 3 Hours

[Maximum Marks: 300]

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

IMPORTANT INSTRUCTIONS

1. This Booklet has a cover (this page) which should not be opened till the invigilator gives signal to open it at the commencement of the examination. As soon as the signal is received you should tear the right side of the booklet cover carefully to open the booklet. Then proceed to answer the questions.

2. This Question Booklet contains 200 questions. Prior to attempting to answer the candidates are requested to check whether all the questions are there in series without any omission and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed it shall be reported to the Invigilator within first 10 minutes.

3. Answer all questions. All questions carry equal marks.

4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.

5. An Answer Sheet will be supplied to you separately by the Invigilator to mark the answers.

6. You will also encode your Register Number, Subject Code, Question Booklet Sl. No. etc. with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per commission's notification.

7. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case, you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.

8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:

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

9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.

10. The sheet before the last page of the Question Booklet can be used for Rough Work.

11. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

12. For Question No. 101 to 200 in all matters and in cases of doubt, the English Version is final.

13. Do not tick-mark or mark the answers in the Question booklet.