#### General Instruction:

(i) All questions are compulsory.

(ii) This question paper contains 28 questions divided into four Sections A, B, C and D.

(iii) Section A comprises of 4 questions of 1 mark each. Section B comprises of 6 questions of 2 marks each. Section C comprises of 8 questions of 3 marks each and Section D comprises of 10 questions of 4 marks each.

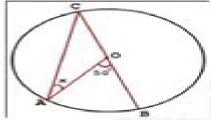
(iv) Use of Calculators is not permitted

#### Section A: Each question carries 1 mark

- Consider the first 7 multiples of 6. Find their mean.
- For the data given below, find the median. The weight in grams of bars of chocolates is as follows:

137, 145, 122, 153, 118, 159, 164, 111

Find the measure of angle x in the following figure given that the centre of the circle is O and BC is the diameter.



4. A cone has a base diameter of 14 cm and a slant height of 25 cm. Find its height.

#### Section B: Each question carries 2 marks

- A circle is circumscribed about an equilateral triangle of side length 18cm. Find the radius of the circle.
- MB and NB are the bisectors of angles M and N respectively of the quadrilateral LMNP. Prove that measure of angle MBN is equal to half the sum of the angles L and P.
- Given that two chords of a circle are parallel, then prove that if a diameter of the circle bisects one chord, it also bisects the other chord.
- A sphere is made by reshaping a solid right circular cone of height 14 cm and diameter 10 cm. Find the radius of the sphere thus formed.
- The number of girl child per family was recorded for 1000 families with 3 children. The data obtained was as follows:

Number of girls	0	1	2	3	
Number of families	112	314	382	192	

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