## PART – III

## QUANTITATIVE APTITUDE

101. If the sum of five consecutive integers is S, then the largest of those integers in terms of S is

(A)	$\frac{S-10}{5}$	(B)	$\frac{S+4}{4}$
(C)	$\frac{S+5}{4}$	(D)	$\frac{S+10}{5}$

102. The greatest among the numbers  $3\sqrt{2}$ ,  $3\sqrt{7}$ ,  $6\sqrt{5}$ ,  $2\sqrt{20}$  is

- (A)  $3\sqrt{2}$  (B)  $3\sqrt{7}$ (C)  $6\sqrt{5}$  (D)  $2\sqrt{20}$
- **103.** The denominator of a fraction is 3 more than its numerator. If the numerator is increased by 7 and the denominator is decreased by 2, we obtain 2. The sum of numerator and denominator of the fraction is
  - (A) 5 (B) 13 (C) 17 (D) 19
- **104.** 47 is added to the product of 71 and an unknown number. The new number is divisible by 7 giving the quotient 98. The unknown number is a multiple of
  - (A) 2 (B) 5 (C) 7 (D) 3
- 105. The least number which when divided by 16, 18, 20 and 25 leaves 4 as remainder in each case but when divided by 7 leaves no remainder is

(A)	17004	(B)	18000
(C)	18002	(D)	18004

- 106. If the measure of each interior angle of a regular polygon be 144°, the number of sides of the polygon is
  - (A) 10
     (B) 20

     (C) 24
     (D) 36
- 107. The base of a right prism is an equilateral triangle of area 173 cm<sup>2</sup> and the volume of the prism is 10380 cm<sup>3</sup>. The area of the lateral surface of the prism is (use  $\sqrt{3} = 1.73$ )
  - (A)  $1200 \text{ cm}^2$  (B)  $2400 \text{ cm}^2$ (C)  $3600 \text{ cm}^2$  (D)  $4380 \text{ cm}^2$

108. If a right circular cone is separated into solids of volumes  $V_1$ ,  $V_2$ ,  $V_3$  by two planes parallel to the base, which also trisect the altitude, then  $V_1 : V_2 : V_3$  is (A) 1:2:3 (B) 1:4:6(C) 1:6:9 (D) 1:7:19

109. The ratio of the volume of a cube and of a solid sphere is 363 : 49. The ratio of an edge of the cube and the radius of

the s	phere is (taki	$ing \pi = \frac{4}{3}$	$(\frac{22}{7})$
(A)	7:11	(B)	22 : 7
(C)	11:7	(D)	7 : 22

110. The ratio of the areas of a regular hexagon and an equilateral triangle having same perimeter is

(A)	2:3	(B)	6:1
(C)	3:2	(D)	1:6

## SPACE FOR ROUGH WORK

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