D.A.V. PUBLIC SCHOOL, THANE
SESSION: 2020-2021
PERIODIC TEST III: QUESTION PAPER
SUBJECT: MATHEMATICS

STD: VIII **MAX MARKS: 20**
DATE: 21.12.2020 **TIME: 30 Minutes**

Q1.	**The area of a trapezium is 480 cm^2, the distance between two parallel sides is 15 cm and one of the parallel sides is 20 cm. The other parallel side is:**
A)	**20 cm**
B)	**34 cm**
C)	**44 cm**
D)	**50 cm**
Q2.	**A cylindrical box has ____ curved surface and ____ circular faces, which are identical.**
A)	**one, one**
B)	**one, two**
C)	**two, one**
D)	**two, two**
Q3.	**If a cuboidal box has height, length and width as 20 cm, 15 cm and 10 cm respectively. Then its total surface area is:**
A)	**1100 cm^2**
B)	**1200 cm^2**
C)	**1300 cm^2**
D)	**1400 cm^2**
Q4.	**The height of a cylinder whose radius is 7 cm and the total surface area is 968 cm^2 is: (take $\Pi = \frac{22}{7}$)**
A)	**15 cm**
B)	**17 cm**
C)	**19 cm**
D)	**21 cm**
Q5.	**The volume of a room is 80 m^3. The area of the floor is 20 m^2. The height of the room is:**
A)	**5 m**
B)	**6.8 m**
C)	**3 m**
D)	**4 m**

Q6.	**The base radius and height of a right circular cylinder are 14 cm and 5 cm respectively. Its curved surface is: (take $\Pi = \frac{22}{7}$)**
A)	**220 cm²**
B)	**440 cm²**
C)	**1232 cm²**
D)	**$2\pi \times 14 \times (14 + 5)$ cm²**
Q7.	**The base radius and height of a right circular cylinder are 5 cm and 10 cm. Its total surface area is:**
A)	**150π cm²**
B)	**300π cm²**
C)	**$250\ \pi$ cm²**
D)	**$350\ \pi$ cm²**
Q8.	**The floor of a room is a square of side 6 m. Its height is 4 m. The volume of the room is:**
A)	**140 m³**
B)	**272 m³**
C)	**144 m³**
D)	**315 m³**
Q9.	**Find the radius of a right circular cylinder, if its volume is 154m^3 and height is 1 m . (take $\Pi = \frac{22}{7}$)**
A)	**9 m**
B)	**7 m**
C)	**0.49 m**
D)	**49 m**
Q10.	**The number of faces for a polyhedron having 9 edges, 6 vertices are:**
A)	**4**
B)	**7**
C)	**5**
D)	**3**

Q11.	**The number of edges of a tetrahedron are:**
A)	**6**
B)	**5**
C)	**4**
D)	**3**

Q12.	**Find the volume of a cube whose side is 0.1 cm.**
A) 0.1 cm^3	
B) 0.01 cm^3	
C) 0.001 cm^3	
D) 1 cm^3	

Q13.	**Simplify $(5^0 + 6^0 + 7^0 + 8^0)^{\frac{1}{2}}$**
A) 4	
B) 2	
C) 9	
D) 6	

Q14.	**Find the value of x, so that $\left[\frac{1}{3}\right]^{-5} \times \left[\frac{1}{3}\right]^{8} = \left[\frac{1}{3}\right]^{2x-1}$**
A) 2.5	
B) 3.5	
C) 4	
D) 2	

Q15.	**Find the value of $(1.69)^{\frac{1}{2}}$**
A) 0.13	
B) 1.3	
C) 13	
D) 0.013	

Q16.	**Find the value of x, if $(3^2)^x = (3)^8$**
A) 4	
B) 8	
C) 16	
D) 10	

Q17.	**Find the value of $15 \div (125)^{\frac{1}{3}}$**
A) 3	
B) 25	
C) 75	
D) 18	

Q18.	**Simplify: $(2^{-1} \times 5^{-1})^{-1} \div 4^{-1}$**
A) 38	
B) 65	
C) 29	
D) 40	

Q19.	**Find the value of $(3^0 + 4^{-1}) \times 2^2$**
A) 5	
B) 4	
C) 6	
D) 3	
Q20.	**Simplify: $6p^{\frac{2}{5}} \times 9p^{\frac{3}{5}}$**
A) $36p^{\frac{2}{5}}$	
B) $12p^{\frac{2}{5}}$	
C) 54p	
D) 83p	