

TGT Mathematics

Q 1). Recently, President Droupadi Murmu has renamed the Durbar Hall of Rashtrapati Bhawan. What is the new name of the Durbar Hall?

- (A) Kirti Mandap
- (B) Prasad Mandap
- (C) Ganatantra Mandap
- (D) Gandhi Mandap

Correct Answer: (C)

Q 2). Recently, 4th Capacity Building Program for the Civil Servants of the Socialist Republic of which country has commenced at NCGG, Mussoorie?

- (A) Sri Lanka
- (B) Mauritius
- (C) Madagascar
- (D) Seychelles

Correct Answer: (A)

Q 3). Recently, which of the following typhoons has pummeled Japan?

- (A) Biparjoy
- (B) Yagi
- (C) Shanshan
- (D) Mocha

Correct Answer: (C)

Q 4). Students identify the sub concepts from the generalization in which of the following phases of concept mapping?

- (A) Propositional Phase
- (B) Application Phase
- (C) Closure Phase
- (D) Presentation of Abstraction

Correct Answer: (D)

Q 5). In which stage, children are able to think about things in terms of consistent physical features?

- (A) Sensory Motor
- (B) Concrete Operational
- (C) Pre-Operational
- (D) Formal Operational

Correct Answer: (C)

Q 6). Which of the following is not the main feature of RTE Act?

- (A) Free Elementary Education for all children in age group 6-14 years in a neighbourhood school.
- (B) Completion of Elementary Education even after fourteen years of age.
- (C) Private Tuitions by teachers is not prohibited.
- (D) No child is denied admission due to lack of age certificate.

Correct Answer: (C)

Q 7). The Natural number that has no predecessor is _____.

- (A) 1
- (B) 9
- (C) 0
- (D) -1

Correct Answer : (A)

Q 8). Which term of the A.P.: $-10, -13, -16, \dots$ is -61 ?

- (A) 15
- (B) 16
- (C) 17
- (D) 18

Correct Answer : (D)

Q 9). The difference between the greatest and the least number that can be written using the digits 6, 2, 7, 4, 3 each only once is _____.

- (A) 51965
- (B) 52695
- (C) 52915
- (D) 52965

Correct Answer : (D)

Q 10). Find the compound interest on ₹1000 at 4% per annum for 2 years compounded annually.

- (A) ₹1081.60
- (B) ₹81.60
- (C) ₹1091.60
- (D) ₹91.60

Correct Answer : (B)

Q 11). The average of $\frac{1}{5}$, $\frac{3}{10}$, $\frac{1}{2}$ is:

(A) 1

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

(C) $\frac{1}{3}$

(D) $\frac{3}{5}$

Correct Answer : (C)

Q 12). If $x \tan 60^\circ \cos 60^\circ = \sin 60^\circ \cot 60^\circ$, find the value of x .

(A) $\cos 30^\circ$

(B) $\tan 30^\circ$

(C) $\sin 30^\circ$

(D) $\cot 30^\circ$

Correct Answer : (B)

Q 13). Two dice are rolled simultaneously. what is the probability that 6 will come up at least once?

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

(B) $\frac{7}{36}$

(C) $\frac{11}{36}$

(D) $\frac{13}{36}$

Correct Answer : (C)

Q 14). If $a^x = b^3$, $b^y = c^3$, $c^z = a^3$, then value of $x^2 y^2 z^2$ is:

(A) 3

(B) 27

(C) 81

(D) 729

Correct Answer : (D)

Q 15). How many cubes of edge 10 cm can be put in a cubical box in 1 m edge?

(A) 10

(B) 100

(C) 1000

(D) 10000

Correct Answer : (C)

Q 16). If $(2a + b, a - b) = (8, 3)$ then $a^2 + b^2 = ?$

- (A) 25
- (B) 100
- (C) $\frac{125}{9}$
- (D) 9

Correct Answer : (C)

Q 17). The large hand of a clock is 42 cm long. How much distance does its extremity move in 20 minutes? (Take $\pi = \frac{22}{7}$)

- (A) 88 cm
- (B) 80 cm
- (C) 77 cm
- (D) 75 cm

Correct Answer : (A)

Q 18). Remainder when $(27)^{999}$ is divided by 7 is:

- (A) 4
- (B) 6
- (C) 5
- (D) 3

Correct Answer : (B)

Q 19). In how many ways 3 prizes can be given away to 7 boys when each boy is eligible for any of the prizes?

- (A) 6
- (B) 27
- (C) 210
- (D) 343

Correct Answer : (D)

Q 20). One of the roots of the equation $(x + 1)(x + 3)(x + 2)(x + 4) = 120$ is:

- (A) 1
- (B) -1
- (C) -5
- (D) 0

Correct Answer : (A)