

Name

Hall Ticket No.

Name of the Invigilator .....

Signature .....

**STD-6**

**Maximum Marks : 100**  
**Time : 90 Minutes**

### INSTRUCTIONS

- This test of 60 minutes duration, contains 45 questions and is meant to be taken in one sitting. (Std. III to VIII)
- Marks are **NOT** deducted for wrong answers.
- Do any rough work on the test itself (wherever space is available). Do not use any additional paper for rough work.
- You are **NOT** allowed to use a calculator.
- Read the instructions given in the answer sheet before answering the questions.
  - Fill in your Hall Ticket No. in the Boxes provided.  
Ex :  7  5  2  6  4  1  8
- Each question is provided with four or five answers. The answer which you feel is the best, identify by darkening the circle with pen.  
Example : ☐ A ☒ B ☐ C ☐ D
- Return the OMR answer sheet to the invigilator at the end of the Examination.
- From Class three onwards, the test booklet can be retained by the student.



**NTA Council**

Shalom Communications  
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Choose the right answer and darken in the OMR  
answer sheet

## MATHEMATICS

- HCF of 1134, 1344, 1638 is**
  - 21
  - 42
  - 63
  - 7
  - None of these
- The least number which when divided by 9, 12, 16, 30 leaves in each case a remainder of 3 is**
  - 720
  - 723
  - 823
  - 750
  - None of these
- The least number which when increased by 3 is exactly divisible by 9, 12, 15 and 21 is**
  - 1257
  - 1260
  - 1263
  - 1254
  - None of these
- 9075 is only divisible by**
  - 3
  - 5
  - 25
  - 5 and 25
  - None of these

5. LCM of 14, 35, 40, 56, 28 is

- a) 280
- b) 140
- c) 560
- d) 70
- e) None of these

6. Four bells ring at intervals of 6, 7, 8 and 9 seconds respectively. All the bells ring together after \_\_\_\_\_ seconds

- a) 504
- b) 516
- c) 508
- d) 512
- e) None of these

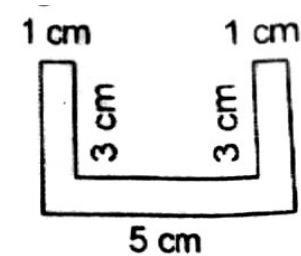
7. What least value must be given to \* so that the number 6135\*2 is exactly divisible by 9?

- a) 0
- b) 1
- c) 2
- d) 3
- e) None of these

8. If the difference between twice the last digit and the number formed by other digits is either 0 or a multiple of 7, then the number is divisible by

- a) 3
- b) 5
- c) 7
- d) 9
- e) None of these

9. Find the area of the figure shown below



- a) 9 sq cm
- b) 10 sq cm
- c) 11 sq cm
- d) 15 sq cm
- e) None of these

10. The distance covered by a farmer around a rectangular field of 120 m length and 80 m width is .....m.

- a) 200
- b) 300
- c) 400
- d) 500
- e) None of these

11. The side of a square shape bread piece is 4.5 cm, then the area to cover it both sides with jam is

- a) 20.25 cm<sup>2</sup>
- b) 40.5 cm<sup>2</sup>
- c) 18.0 cm<sup>2</sup>
- d) 9 cm<sup>2</sup>
- e) None of these

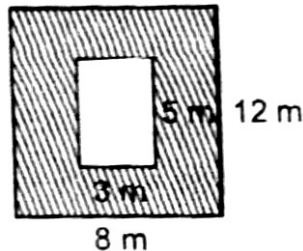
**12. The length of the side of the largest square tile which can be used to cover a floor 720 cm long and 378 cm broad without leaving any gap is:**

- a) 24 cm                      b) 18 cm  
c) 20 cm                      d) 25 cm  
e) None of these

**13. The perimeter of a rectangle is twice the..... of length and breadth of the rectangle**

- a) Difference                      b) Sum  
c) Product                      d) None of these

**14. Area of the shaded region is**



- a) 96 sq cm                      b) 15 sq cm  
c) 81 sq cm                      d) 110 sq cm  
e) None of these

**15. 25% of 96 equals:**

- (A) 24                      (B) 48                      (C) 25.2  
(D) 24.5                      (E) None of these.

**16. Dinesh charged Rs. 16.25 for each table, he built. If the material cost Rs. 11.75 per table, how much profit could he earn after selling six tables ?**

- (A) Rs. 27                      (B) Rs. 29  
(C) Rs. 31                      (D) Rs. 25                      (E) None of these.

**17. The next number in the series 1, 3, 18, 162 is:**

- (A) 1,934                      (B) 1,954                      (C) 1,944  
(D) 1,924                      (E) None of these.

**18. The product of two numbers is 2,227. If the HCF of the numbers is 17, then LCM will be:**

- (A) 129                      (B) 121  
(C) 131                      (D) 133  
(E) None of these

**19. The measure of each angle of a convex quadrilateral is less than:**

- (A)  $90^\circ$                       (B)  $45^\circ$                       (C)  $180^\circ$   
(D)  $270^\circ$                       (E) None of these.

**20. Which one of the following represents the statement "6 times the sum of 3 and 9"?**

- (A)  $6 \times 9 + 4$                       (B)  $6 \times (3 + 9)$                       (C)  $6 + (3 \times 9)$   
(D)  $6 \times 3 + 9$                       (E) None of these

**21. If each of the two angles of a triangle is twice the third angle then measure of the smallest angle is:**

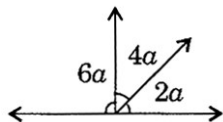
- (A)  $33^\circ$                       (B)  $36^\circ$                       (C)  $72^\circ$

(D)  $32^\circ$  (E) None of these

**22. The largest prime number less than 100 is :**

(A) 99 (B) 95 (C) 91  
(D) 97 (E) None of these

**23. In the given figure, the value of 'a' is**



(A)  $20^\circ$  (B)  $15^\circ$  (C)  $25^\circ$   
(D)  $22.5^\circ$  (E) None of these

**24. Rakesh collects old coins. He has  $\frac{12}{48}$  of the old coins in**

**his collection. What is  $\frac{12}{48}$  expressed as a percent?**

(A) 25% (B) 33% (C) 35%  
(D) 20% (E) None of these

**25. Write 30 as a product of prime numbers.**

(A)  $3 \times 10$  (B)  $2 \times 3 \times 5$  (C)  $3 \times 3 \times 3$   
(D) All of these (E) None of these

## **SCIENCE**

**26. Earthquakes occur because of the movement of:**

(A) crust (B) mantle (C) outer core

(D) inner core (E) none of these

**27. The non-metal which exists in liquid state at room temperature is:**

(A) fluorine (B) bromine (C) chlorine  
(D) oxygen (E) none of these

**28. Burning of a candle is a / an:**

(A) physical change (B) chemical change  
(C) isomeric change (D) explosion  
(E) none of these

**29. The hardness of water can be removed by:**

(A) adding slaked lime  
(B) adding washing soda  
(C) boiling (D) all of these  
(E) none of these

**30. Magnetization of a needle is a:**

(A) chemical change (B) physical change  
(C) combination (D) decomposition  
(E) none of these

**31. The stapler used by you is a lever of which kind?**

(A) 1st order (B) 2nd order (C) 3rd order  
(D) 4th order (E) None of these

**32. An element which does not form compounds is :**

(A) neon (B) oxygen (C) nitrogen  
(D) hydrogen (E) none of these

**33. The aquatic animals and plants survive when water freeze because :**

- (A) ice is lighter than water so it remains on the upper surface.
- (B) the thick layer off ice prevents further cooling of water below it.
- (C) they take oxygen dissolved in water.
- (D) all of these.      (E) none of these

**34. Which of the following is nearest to earth in terms of size?**

- (A) Moon      (B) Venus      (C) Mars
- (D) Uranus      (E) None of these

**35. The percentage of oxygen in air is:**

- (A) 20.9      (B) 30      (C) 15
- (D) 50      (E) None of these

**36. Green plants make their food in the presence of**

- a) Sunlight, water, carbon dioxide
- b) Oxygen and water
- c) Water and carbon dioxide
- d) None of these

**37. When water-vapour freezes in the air it forms ice crystals and falls in the form of**

- a) Snow      b) Hail
- c) Sleet      d) Rain
- e) None of these

**38. Common salt is obtained from sea water by**

- a) Evaporation      b) Decantation
- c) Filtration      d) Sedimentation
- e) None of these

**39. In order to prevent mosquitoes from breeding in stagnant water, it should be sprayed with**

- a) Olive oil      b) Mustard oil
- c) Coconut oil      d) Kerosene oil
- e) None of these

**40. The germs present in water can be killed by**

- a) Filtration      b) Boiling
- c) Decantation      d) None of these

**41. Where does our body get the water it needs?**

- a) From the water that we dring
- b) From other liquids that we dring
- c) From the food that we eat
- d) From all the above
- e) None of these

**42. A substance that leads to the loss of the sensation of pain is called an**

- a) Andibodies      b) Anaesthetic
- c) Anamia      d) Antiseptic
- e) none of these

**43. The scientist who awarded Nobel prize for his work on Photoelectric effect and became a US citizen though born in Germany**

- a) Newton
- b) Einstein
- c) Neils Bohr
- d) Edison
- e) None of these

**44. Instrument used for measuring the atmospheric pressure is known as**

- a) Thermometer
- b) Barometer
- c) Hygrometer
- d) Anemometer
- e) None of these

**45. The number of sweat glands in the human body are apprioximately.**

- a) 2000
- b) 20,000
- c) 2
- d) 2 million
- e) none of these

**46. Write a paragraph on any one of the following**

The World Cup Football 2018

or

The story I liked the most

**(Write it in your OMR Answer Sheet)**