VTSE (10 class)

Math

1. If the 4-digit number 48ab is divisible by 2, 5 and 7, then what is the value of (10a – b)?

(a) 10   (b) 20

(c) 30   (d) 0

2. The slant height and the radius of a right circular cone are 11 cm and 6 cm, respectively. What is the curved surface area of the cone?

(a) 74 π cm²   (b) 60 π cm²

(c) 44 π cm²   (d) 66 π cm²

3. If 3 is added to two numbers, the ratio is 4:5 and if the same number is subtracted from the two numbers, the ratio is 1: 2. The numbers are:

(a) 5 and 7   (b) 1 and 2

(c) 7 and 5   (d) 4 and 5

4. In a trapezium, the sum and difference between the parallel sides are 15 cm and 3 cm and those between the non-parallel sides are 4 cm and 5 cm, respectively. Find its area.

(a) 32 cm²   (b) 30 cm²

(c) 25 cm²   (d) 35 cm²

5. 6 pipes, working 10 hours a day, can empty a cistern in 3 days. How many hours a day must 9 pipes work to empty the cistern in one day?

(a) 18   (b) 20

(c) 12   (d) 22

GK

1 .How much distance was travelled by first train of India?

A. 33 km   B. 36 km

C. 34 km   D. 46 km

2. In which Governor-General's reign railway lines in India were established?

A. Lord William Bentick   B. Lord Cornwallis

C. Lord Kenning   D. Lord Dalhousie

3. Track and field star Carl Lewis won how many gold medals at the 1984 Olympic games?

A. Two   B. Three

C. Four   D. Eight

4. Which county did Ravi Shastri play for?

A. Glamorgan   B. Leicestershire

C. Gloucestershire   D. Lancashire

5. Which of the following is not written by Munshi Premchand?

A. Gaban   B. Godan

C. Guide   D. Manasorovar

SCIENCE

1. Nuclear sizes are expressed in a unit named

A. Fermi   B. Angstrom

C. Newton   D. Tesla

2. Waves that are required for long distance wireless communication are

A. Infrared rays   B. Ultraviolet rays

C. Radio waves   D. Microwaves

3. Light year is a unit of

A. Time   B. Distance

C. Light   D. Intensity of light

4. A television channel is characterised by

A. Frequency of transmitted signal

B. Velocity of transmitted signal

C. Physical dimension of television screen

D. Size of picture tube

5. Newton's second law of motion:

A. Explains the relationship between forces on two mutually effective objects

B. Also known by the law of inertia

C. It is helpful to understand the effects of force

D. Also known by the law of conservation of energy .

English

Fill in the blank using correct form of the verb

1_____at the swimming pool at 7:00a.m., yesterday morning.

A. am being   B. am

C. was being   D. was

2. We_____ a lovely view of the Bosphorus and the bridges over it while the plane_____ over Istanbul.

A. are getting   B. flies

C. had got   D. is flying

E. are getting

3 .A demonstration is an act of showing by giving proof or_____evidence.

A. a   B. an

C. the   D. no article

4. _____Sahara is in the northern part of Africa.

A. no article   B. a

C. an   D. the

Narration

5. His father ordered him to go to his room and study.

A. His father said, "Go to your room and study."

B. His father said to him, "Go and study in your room."

C. His father shouted, "Go right now to your study room"

D. His father said firmly, "Go and study in your room."