SAST 2020 Sample question paper for class 9

Maths

1. One side of a rectangular field is 15 m and one of its diagonals is 17 m. Find the area of the field.

A)120 m^2

B)130 m^2

C)100 m^2

D)110 m^2

2. Find the area of a right-angled triangle whose base is 12 cm and hypotenuse 13 cm.

A) 30 cm^2

B) 20 cm^2

C) 40 cm^2

D) 60 cm^2

3. Find the number of diagonals if the sum of all interior angles is 900°.

A) 10

B) 12

C) 13

D) 14

4. Anshul purchased 100 oranges at the rate of Rs 2 per orange. He sold 60% of the oranges at the rate of Rs 2.50 per orange and the remaining oranges at the rate of Rs 2 per orange. Find his profit percent.

A)12%

B)15%

C)20%

D)25%

Chemistry

1. Which one of the following is metal?

A) C

B) N

C) Na

D) O

2. When sulphur dioxide is dissolved in water then-

A) Sulphur is formed

B) Sulphur trioxide is formed

C) Sulphuric acid is formed

D) Sulphurous acid is formed.

3. The crops which are grown in rainy season are

A) Rabi Crop

B) Seasonal crop

C) Monsoon crop

D) Kharif crop

4.why plastic is used in aircraft and spaceship?

A) Plastics are lighter compared to metals

B) Plastics are cheaper

C) Plastics are easy to handle

D) Plastics can be recycled

Physics

1. Two wires A and B of equal length differ only in their thickness. A is thinner than B. If both are plucked with same force, then

A) A will produce sound of higher pitch than B

B) A will produce sound of lower pitch tha B

C) Both will produce sounds of equal pitch

D) None of these

2. The maximum distance of a vibrating body from its mean position is called its –

A) Frequency

B) Quality

C) Amplitude

D) Pitch

3. Lubricants are used to

A) reduce friction

B) increase friction

C) make a surface shiny

D) make a surface oily

4. A child walks towards a fixed plane mirror at a speed of 5 km h–1. The velocity of the image with respect to mirror is

A) 5 km h–1

B) –5 km h–1

C) 10 km h–1

D) –10 km h–1

Biology

1. Formation of curd by milk is done by -

A) Lactobacillus

B) Moulds

C) Yeasts

D) algae

2. Black rust of wheat is caused by -

A) Rhizopus

B) Ustilago

C) Penicillium

D) Puccinia

3. The accumulation of harmful pesticides in the living body is known as -

A) eutrophication

B) bio-concentration

C) none of these

D) both (a) and (b)

4. In cities and towns water should be purified by -

A) sedimentation

B) filtration

C) chlorination

D) all of these

Mental ability

1. Which number would replace question mark in the series 7, 12, 19, ?, 39.
A) 29

B) 28

C) 26

D) 24

2.Which fraction comes next in the sequence

$$\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16}, ?$$

A) $\frac{9}{32}$

B) $\frac{10}{17}$

C) $\frac{11}{34}$

D) $\frac{12}{35}$

3. In a queue Rekha is 9th from the back. Geeta's place is 8th from the front. Rimya is standing between two. What could be the minimum number of girls standing in the queue?

A) 12

B) 14

C) 16

D) 18

4. 'Numismatic' is related to 'Coin' in the same way as 'Paleontology' is related to-

A) Earth

B) Soil

C) Fossils

D) Stones