
FOUNDATION COURSE
Class VI (Science and Mathematics)
PAPER : 02

Time : 1 hr 30 min.

Max. Marks. : 50

SCIENCE

1. Write two differences between scalars and vectors ? [1]

2. (i) Define acceleration. [1]

- (ii) Write two differences between speed and velocity. [2]

3. (i) What is the SI unit of acceleration ? [1]

- (ii) Write two differences between distance and displacement ? [1]

4. Write two difference between uniform motion and non uniform motion ? [2]

5. Name one fibre obtained from the stem of plants. [1]
6. One of the following fibres is obtained from plants. This fibre is [1]
(a) wool (b) silk (c) nylon (d) flax
7. What type of soil and climate are good for growing cotton ? Name any two states of our country where cotton is mainly grown. [2]
8. What is ginning ? How is it done ? [2]
9. A and B are the two natural fibres. Fibre A is very soft and smooth which is separated from the seeds by the process C. Fibre A is used for making the wicks of oil lamps lit on Diwali. Fibre B is very rough which is present as an outer covering on the ripened fruit D which occurs mainly in coastal areas. Fibre B is also known by another name E. The fibre is used for making ropes and mats. [3]
(a) Name the fibre A
(b) What is the process C known as ?
(c) Name the fibre B
(d) What is the name of fruit D
(e) Write the name E
10. What is starch made up of ? [1]
11. What are proteins made up of ? [1]

12. What is the source of beef and pork ? [1]

13. Write the diseases caused by deficiency of vitamin A and Vitamin C. [2]

14. Write the test for starch and proteins. [3]

MATHS

1. $\frac{3}{25} =$
(a) 1.2 (b) .12 (c) .012 (d) None of these [1]
2. $100 \times 10 - 100 + 2000 \div 100$
(a) 29 (b) 920 (c) 320 (d) None of these [1]
3. Which number is divisible by 6 ?
(a) 8790432 (b) 98671402 (c) 85492014 (d) None of these [1]
4. L.C.M. of 24, 36, 40 is
(a) 4 (b) 90 (c) 360 (d) 720 [1]
5. Three bells ring together at intervals of 9, 12, 15 minutes. If they start ringing together, after what time will they next ring together.
(a) 1 hour (b) 90 minutes (c) 150 minutes (d) 180 minutes [1]
6. 2 kg 8 gm =
(a) 2.8 kg (b) 2.08 kg (c) 2.008 kg (d) None of these [1]
7. Sunita purchased 5 kg 75 gm of fruits and 3 kg 465 gm of vegetables and put them in a bag. If this bag with these contents weighs 9 kg. Find the weight of empty bag. [2]
8. A man covers a journey by car in 3 hours. He covers a distance of 64 km 324 mt in first hour, 58 km 56 mt in second hour and 62 km 8 mt in third hour find the length of journey ? [2]
9. Add 67.25, 249, 8.785, 9.8 and .23. [2]

10. $27 - [18 - \{16 - (5 - \sqrt{4 - 1})\}]$.

[2]

11. $9\frac{3}{4} \div \left[2\frac{1}{6} + \left\{ 4\frac{1}{3} - \left(1\frac{1}{2} + 1\frac{3}{4} \right) \right\} \right]$.

[2]

12. Find cube root of $\sqrt{74088}$.

[3]

13. Find the L.C.M. of 112, 168 and 266 by prime factorization method.

[3]

14. Find the angle between the hour hand and minute hand at 5 : 20 pm.

[3]