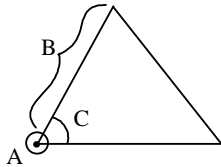


Section : 1 – Mathematics

1. A number x is added to 2 times of another number y . Find the mathematical expression to represent the same.

- (a) $x + y$ (b) $2x + y$ (c) $2x + 2y$ (d) $x + 2y$

2.



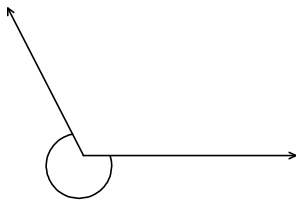
The correct names of A, B and C respectively are :

- (a) side, vertex, angle (b) angle, vertex, side (c) side, angle, vertex (d) vertex, side, angle

3. Find the perimeter of a rectangle whose length is 10 units and breadth is 6 units.

- (a) 16 (b) 60 (c) 120 (d) 32

4.



The marked angle is

- (a) Right (b) Straight (c) Obtuse (d) Reflex

5. Consider 2 fractions: $\frac{6}{5}$ and $\frac{37}{4}$

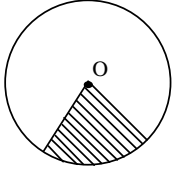
Which one of the following fraction lies between the above 2 fractions ?

- (a) $\frac{37}{2}$ (b) $\frac{39}{2}$ (c) $\frac{6}{9}$ (d) $\frac{3}{2}$

6. Simplify : $(4 - 3 \times (7 + 9) \div 8)$

- (a) 0 (b) -2 (c) 5 (d) 2

ROUGH SPACE

7. Which of the given pairs of ratios are in proportion ?
 (a) $\frac{12}{15}$ and $\frac{16}{20}$ (b) $\frac{3}{2}$ and $\frac{2}{3}$ (c) $\frac{7}{9}$ and $\frac{8}{10}$ (d) $\frac{3}{1}$ and $\frac{5}{2}$
8. The shaded region is called a

 (a) arc (b) chord (c) sector (d) segment
9. For any three whole number a, b and c,
 $a + (b + c) = (a + b) + c$
 This property is known as
 (a) Commutative property (b) Associative property
 (c) Identity property (d) Distributive property
10. A number when added to 17 becomes 30. Find the number.
 (a) -13 (b) 47 (c) -47 (d) 13

Section : 2 – Science

11. Choose the incorrect statement
 (a) Like poles repel each other (b) Unlike poles attract each other
 (c) Like poles repels and then attracts (d) Magnet attracts magnetic materials
12. Following is not a magnetic material
 (a) Iron nail (b) feather (c) rubber (d) both b & c
13. Motion noticed in the pendulum of the clock is
 (a) Rotational (b) oscillatory (c) non-periodic (d) random
14. During the formation of a shadow in case of extended source of light, as the screen moves away from the object
 (a) Size of umbra increases and penumbra decreases
 (b) Size of umbra decreases and penumbra increases
 (c) Size of umbra and penumbra increases
 (d) Size of umbra and penumbra decreases

ROUGH SPACE

15. The first electric cell was developed by a scientist named
 (a) Luigi Galvani (b) Alessandro Volta (c) Issac Newton (d) Thomas Edison
16. Choose the correct statement:
 (a) Magnets are unipolar i.e. either north pole or south pole
 (b) Magnets are dipolar i.e. north pole and south pole
 (c) Magnetic poles can be separated by breaking into two pieces
 (d) Magnetic poles always attract each other
17. An electric cell is a device that converts
 (a) Mechanical energy into chemical energy (b) Chemical energy to mechanical energy
 (c) Chemical energy to electrical energy (d) Electrical energy to chemical energy
18. Rolling a ball on the ground performs
 (a) Only translational motion (b) Only rotational motion
 (c) Both translational and rotational motion (d) Both translational and circular motion
19. Black coloured powder chemical used in an electric cell is
 (a) ammonium chloride (b) ferrous oxide
 (c) sodium chloride (d) manganese dioxide
20. Choose the correct ascending order
 (b) 1m, 1km, 1mm, 1cm (b) 1m, 1mm, 1km, 1cm
 (c) 1mm, 1cm, 1m, 1km (d) 1mm, 1m, 1cm, 1km
21. Conversion of solid to directly gas is
 (a) Sublimation (b) Deposition (c) Evaporation (d) Condensation
22. Which of the following is present around $\frac{1}{5}$ th of atmospheric gases?
 (a) Nitrogen (b) Oxygen (c) Argon (d) CO₂
23. Alloy is _____ mixture.
 (a) Solid-gas (b) Solid-liquid (c) Solid-solid (d) Liquid-gas

ROUGH SPACE

24. Which of the following is homogenous mixture ?
 (a) Alloy (b) Saturated salt + water
 (c) Sand + metal (d) None of these
25. First layer of atmosphere is
 (a) Troposphere (b) Stratosphere (c) Mesosphere (d) Thermosphere
26. Salt solution mixture can be separated by
 (a) Filtration (b) Distillation (c) Winnowing (d) Magnetic separation
27. Nucleons are
 (a) Proton + electrons (b) Proton + neutrons (c) Neutrons (d) Electron + neutrons
28. Chemical symbol for helium is
 (a) H (b) He (c) Hi (d) Hm
29. Ozone layer is present in
 (a) Stratosphere (b) Mesosphere (c) Troposphere (d) Thermosphere
30. Rusting of iron is
 (a) Chemical change (b) Physical change
 (c) Reversible change (d) Both chemical and physical change
31. Potato is edible part of the plant. Potato is a _____.
 (a) Flower (b) Stem (c) Root (d) Leaf
32. _____ is/are sources of fats.
 (a) Butter (b) Ghee (c) Sunflower oil (d) all of the above
33. Plants release a lot of water into the air through their leaves by process by _____.
 (a) transpiration (b) digestion (c) adaptation (d) locomotion
34. Fishes _____ that helps in locomotion.
 (a) have legs and hands (b) have wings on the body
 (c) have fins on the body (d) have roots on the body

ROUGH SPACE

35. The habitats of plants and animals that live in water are called _____ habitat.
(a) terrestrial (b) aquatic (c) arboreal (d) aerial
36. Excessive rains may cause _____.
(a) deforestation (b) pollution (c) floods (d) drought
37. _____ cannot be converted into less harmful substances by the process of composting.
(a) plastics (b) vegetable wastes (c) fruit peel (d) human excreta
38. If our air has higher concentration of dust, smoke and particulate matter, it will cause _____.
(a) noise pollution (b) water pollution (c) soil pollution (d) air pollution
39. Study of life or living things is called is _____.
(a) Biology (b) Chemistry (c) Zoology (d) Botany
40. Green plants prepare their own food by the process of photosynthesis. Hence, they are _____.
(a) Parasites (b) Autotrophs (c) Carnivores (d) Omnivores

ROUGH SPACE
