

## DAILY EXAM MATHS - 2 KEY 14-04-2020

- |           |                    |                           |                  |
|-----------|--------------------|---------------------------|------------------|
| 1. 8 cm   | 2. 1:4             | 3. $OA^2 + OC^2$          | 4. 6 cm          |
| 5. No     | 6. 8 cm            | 7. $83^\circ$             | 8. 8 cm or 11 cm |
| 9. 25:9   | 10. $90^\circ$     | 11. $\sqrt{2}-1:\sqrt{2}$ | 12. $13 AB^2$    |
| 13. $QRP$ | 14. $AB^2$         | 15. 1:8                   | 16. 3            |
| 17. 24    | 18. $1:\sqrt{3}:2$ | 19. $\frac{ac}{b+c}$      | 20. 3.4 cm       |

21. Two triangles are said to be similar, if  
(i) their corresponding angles are equal or  
(ii) the lengths of their corresponding sides are proportional.
22. In a right triangle, the square on the hypotenuse is equal to the sum of the squares on the other two sides.
23. Any two circles, any two squares.
24.  $AB^2 + BC^2 + CD^2 + DA^2 = AC^2 + BD^2$ .
25. If a straight line divides two sides of a triangle in the same ratio, then the line is parallel to third side.
- |             |            |
|-------------|------------|
| 26. Proof   | 27. Proof  |
| 28. 4.95 m  | 29. Proof  |
| 30. 11.2 cm | 31. 3.5 cm |
| 32. 15 m    | 33. Proof  |
| 34. 21 m    | 35. Proof  |

## GENERAL SCIENCE - 2 KEY

1. Charles Elton
2. Cyprinus carpio
3. methyl mercury
4. 1958
5. epiglottis
6. alveoli
7. lactic acid
8. 7200 cal
9. cutaneous respiration
10. mitochondria
11. Cytoplasm
12. plants
13. diazene green (Janus green B)
14. Diaphragm
15. Biological oxygen demand
16. mari gold
17. Gujarat
18. fossil fuels
19. Three Rs
20. pyramid of energy
21. With the help of c shaped cartilaginous rings present in the walls of trachea.
22. Stomata of leaves, lenticels of stems, surface of roots
23. Nostrils, nasal cavity, pharynx, larynx, trachea bronchus, bronchioles, alveolus of lungs
24. pleura is two layered membrane that covers lungs and gives protection to lungs
25. oxygen --- 16  
CO<sub>2</sub> --- 4.4  
Nitrogen --- 78
26. With the help of breathing roots pneumatophores that grow above the soil surface
27. biomagnification is the tendency of poisonous chemicals to accumulate as they move from one tropic level to another in food chain whereas bioaccumulation is the process of entering of pollutants in a food chain.
28. Aquatic ecosystem
29. Bio pesticides, using genetically resistant plants,
30. tidal volume is the lung volume representing the normal volume of air displaced between normal inhalation and exhalation. (500 ml).
31. fixed air( carbon dioxide)
32. lactic acid
33. A niche denotes animal's position in the food web and what it eats and also it's mode of life.
34. to increase surface area for exchange of gases
35. Phytoplankton and aquatic plants are producers.  
Crustaceans and herbivorous fish are primary consumers.