Dr.K.K.R GOWTHAM EDUCATIONAL INSTITUTIONS :: A.P & T.S

Class: 8-S   **Marks: 100**
Sub: Maths, PHYSICS, CHEMISTRY   **Time: 2 ½ Hrs**
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Maths

I   Choose the correct answer   20x1=20M

1. 'O' is the additive identify for _____ number   [   ]
    a. Natural   b. Whole   c. Integers   d. Rational

2. 'l" is the multiplicative identify for _____ number   [   ]
    a. Natural   b. whole   c. Integers   d. Rational

3. Rational numbers are also called _____   [   ]
    a. Quotient   b. Natural   c. Whole   d. Integers

4. If the degree of an equation is one then it is called a _____ equation   [   ]
    a. Linear   b. quadratic   c. cubic   d. by Quadratic

5. Golden ratio _____   [   ]
    a. 1.615 : 1   b. 1.516 : 1   c. 1. 165 : 1   d. 1.561 : 1

6. a : b and c : d are any two ratios, then their compound ratio is   [   ]
    a. ac : bd   b. ab : cd   c. bd : ac   d. cd : ab

7. Generally a, b, c are the positive integers. If _____ then (a, b, c) are said to be Pythagorean triplet
    a. $a^2 + b^2 = c^2$ b. $a^2 = b^2 + c^2$ c. $b^2 = c^2 + a^2$ d. none

8. If a number has 1 in the units place, then its cube ends with _____   [   ]
    a. 1   b. 2   c. 3   d. 4

9. The sum of the cubes of first 'n' natural numbers is equal to the _____ of their sum
    a. Square   b. cube   c. sum   d. difference   [   ]

10. If a number can be expressed as a product of three equal factors then it is said to be a
    a. Perfect cube   b. perfect square   c. cube   d. square

11. Square root is the inverse operation of _____   [   ]
    a. Squaring   b. cubing   c. square   d. cube

12. Difference between upper and lower boundary of a class is called _____   [   ]
    a. Class length   b. class size   c. frequency   d. range

13. All the bars (or rectangles) in a bar graph have _____   [   ]
    a. Same length   b. same with equal area   c. same area   d. equal area

14. Area of a square _____   [   ]
    a. Side x side   b. side²   c. l x b   d. 2(l+b)

15. Area of a parallelogram _____   [   ]
    a. b x h   b. b + h   c b/h   d. b – h

16. Area of Rhombas = _____   [   ]
    a. $\frac{1}{2} x d_1 x d_2$ b. d_1 x d_2 c. $d_1 + d_2$ d. 2($d_1 + d_2$)

17. Area of the circle _____ [   ]

    a. πr^2 b. $\frac{1}{2}\pi r^2$ c. πr d. $\pi\, d$

18. Area of the circular path _____ [   ]

    a. $\pi\left(R^2 - r^2\right)$ b. $\pi\left(R^2 + r^2\right)$ c. $\pi\left(r^2 - R^2\right)$ d. $\pi\left(R - r\right)^2$

19. Area of a sector _____ [   ]

    a. $\frac{x}{360}x\pi r^2$ b. $\frac{x}{360}x2\pi r$ c. $\frac{x}{360}x\pi r$ d. $\frac{x}{360}x2\pi r^2$

20. Mode is used to analye both numerical and _____ data [   ]

    a. Verbal   b. Numerical   c. Non-verbal   d. non-Numerical

Physics

I   Answer the following Questions   5x2=10M

1. How do you appreciate the role of friction in facilitating our various activities?

2. What happens if we do not reduce friction in machines?

3. What are the differences between the noise and music?

4. Is plastic coated by the process of electroplating why?

5. What is the use of artificial satellites in our daily life?

II   Answer the following Questions   5x4=20M

1. How can you differentiate between a contact force and a force at a distance?

2. Explain with one example that frictional force is proportional to the normal force?

3. Explain the sources which produce sound pollution in your surroundings?

4. Verify laws of reflection experimentally?

5. Make a battery from four lemons and test it with a LED in the circuit?

Chemistry

I   **Answer the following Questions**   **2x4=8M**

1.   Difine the following
      a. Boiling point   b. Freezin point   c. evaporation d. Humidity

2.   The difference b/w Thermoplastics and Thermosetting plastics

II   **Answer the following Questions**   **4x2=8M**

1. How synthetic fibres changed our daily life?
2. Write the properties of Gases?
3. Explain the
      a. Blending   b. Recycling
4. Give reasons why plastic containers are used as storage

III   **Answer the following Questions**   **4x1=4M**

1. What is matter ? Give an example?
2. What is diffusion?
3. Draw the Recycle code?
4. What is the full form of C.N.G and L.P.G?

IV   Fill in the blanks   5x1=5M
   1. Synthetic fibres are synthesized from raw material called _____
   2. Nylon is _____ fibre
   3. The fibres solidify by _____ process
   4. Freezing point of water is _____
   5. Electric switches are made by _____

V   Matching   5M
1.   Solid to gas   [   ]   a.) condensation
2.   non comparessible   [   ]   b.) 100°C
3.   Diffussion   [   ]   c.) sublimation
4.   Gas to liquid   [   ]   d.) Gas
5.   Boiling point of water   [   ]   e) solid