

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

Class: 9-S

Marks: 100

Sub: Maths , physics,Chemistry

Time: 2 ½ Hrs



Maths

I. Choose the correct answer

20X 1=20M

1. π day _____ []
a. March 14 b. December 25 c. February 28 d. January 26
2. Rational numbers represented by _____ []
a. R b. Q c. Q^1 d. W
3. The collection of all rational and irrational numbers is called ____ []
a. Integers b. whole numbers c. quotient numbers d. real numbers
4. A number which cannot be written in the form p/q for any integers p, q and $q \neq 0$ is called an _____ []
a. Irrational numbers c. quitrent numbers
b. Rational numbers d. integers
5. Each of the polynomial consists of the products of a constant called then _____ []
a. Co efficient b. degree c. power d. polynomial
6. A polynomial of degree 'n' is called _degree polynomial []
a. Nth degree b. $(n+1)^{th}$ degree c. 1st degree d. 4th degree
7. A linear polynomial in one variable has only _____ zeroes []
a. 1 b. 2 c. 3 d. 4
8. A polynomial having three terms are called ____ []
a. Monomial b. binomial c. trinomial d. multnomial
9. Father of geometry _____ []
a. Euclid b. phythagarean c. boudhayana d. thales
10. How many dimensions a solid has ? []
a. 1 b. 2 c. 3 d. 4
11. Write the number of faces a cube and cubiod []
a. 6 b. 8 c. 12 d. 16
12. Euclid wrote number of books _____ []
a. 13 b. 14 c. 15 d. 16

13. Every even number greater than 4 can be written as sum of two []
 a. Gold each b. Euclid c. Gauss d. Bouharyana
14. If three or more points lie on the same line, they are called ____ []
 a. Collinear b. concurrent c. non collinear d. non concurrent
15. The complementary angle of x° is _____ []
 a. $90^\circ - x$ b. $180^\circ x$ c. $360^\circ x$ d. $270^\circ x$
16. If two lines intersect each other, then the vertically opposite angles are _____ []
 a. Equal b. non equal c. parallel d. non parallel
17. Lines which are parallel to a given line are _____ to each other []
 a. Parallel b. non parallel c. equal d. non equal
18. The figures that are the same in shape and size are called []
 a. Congruent b. collinear c. similar d. none
19. In general sides decide size and angles decide _____ []
 a. Shapes b. size c. equal d. non equal
20. The sum of any two sides of a triangle is _____ the third side []
 a. Greater than b. less than c. equal d. non equal

Physics

I. Answer the following questions

5X2=10M

- Distinguish between speed and velocity?
- Two objects have masses 8kg and 25kg. which one has more inertia? why?
- Define centripetal acceleration and uniform circular motion?
- Explain the density and relative density and write their formula?
- Define a) amplitude b) wave length?

II. Answer the following question

3X1=3M

- Distinguish between the uniform and non uniform motion?
- Explain a) static inertia b) inertia of motion c) momentum d) impulse
- Explain universal law of gravitation?

Chemistry

I. answer the following questions

2X4=8M

3. what is the valency of Fe in FeCl_2 and FeCl_3 ?
4. Identify the solutions among the following a) soil b) seawater
c) air d) coal e) soda water

II. Answer the following questions 4X1=4M

1. What is atomicity give one example?
2. Find and the chemical names and formula for a) common salt b) vinegar
3. What is mole?
4. What is homogeneous mixture?

III. Fill in the blanks 3X1=3M

1. When two liquids do not mix, they form two sep layers are called as _____
2. If we put camphor in an open container, it's a mass on decreasing due to _____
3. Pure substance which is made up of only one atom is called _____