

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

Class: 6- F1, F2, F3

Marks: 100

Sub: Maths , Physics

Time: 2 ½ Hrs

I. Objective type questions :

50 × 2= 100 M

Maths

1. 3 less than 2 times 'x' in symbol form []
a. $2x-3$ b. $3-2x$ c. $2x+3$ d. $3x-2$
2. A two digit number having x in unit place and 2 in tens place is []
a. $20+x$ b. $20x$ c. $2+x$ d. $2x$
3. If $\frac{x+1}{3} - \frac{x-1}{4} = 1$ Then value of x is []
a. 6 b. 7 c. 5 d. 4
4. If $\frac{2x+1}{7x-2} = \frac{3}{5}$ then the value of x is []
a. 2 b. 1 c. 3 d. 4
5. If the sum of 3 consecutive number is 255 then the numbers are []
a. 83, 84, 85 b. 84, 85, 86 c. 86, 85, 84 d. 80, 82, 83
6. If the angle of triangles are $3x+20$, $4x$, $6x+30$ then value of x is []
a. 10 b. 50 c. 40 d. 90
7. If $3x-3\frac{1}{3} = 8\frac{2}{3}$ then x = _____ []
a. 2 b. 3 c. 4 d. 5
8. If $4(2-x) + 3(3-x) = -4$ then the value of _____ []
a. 7 b. 3 c. 2 d. 4
9. IF the present age of pooja is 'y' years her age after 9 years is _____ (in yrs) []
a. $9-y$ b. $y-9$ c. $y+9$ d. $9y$
10. '8' added to half of x is equal to 16 in symbolic form is []
a. $2x+8 = 16$ b. $\frac{x}{2} + 8 = 16$ c. $\frac{x}{8} + 2 = 16$ d. $\frac{x}{3} + 8 = 16$
11. What is the 40% of 360 in _____ []
a. 144 b. 1440 c. 90 d. 900
12. 23% of a number is 46. Then the number is _____ []
a. 50 b. 100 c. 200 d. 400
13. Sita had Rs.1600 with her if he spent 20% of money the money left with her _____ []
a. 320 b. 1280 c. 1200 d. 1350
14. The value of machine reduces by 20% every year. If the present value is 18,000 what will its value []
a. 3600 b. 9600 c. 14400 d. 15000
15. Ram's income is 25% more than the income of his wife. By how much percent is his wife's income less than his income []
a. 20% b. $16\frac{2}{3}\%$ c. 25% d. 30%
16. If 15% of 'x' is 600 then x = _____ []
a. 2000 b. 4000 c. 5000 d. 6000
17. The strength of population in school is 3000 in that 60% are boys then no. of boys = []
a. 1500 b. 1800 c. 1200 d. 1000
18. 58% in decimal form []
a. 5.8 b. 0.58 c. 580 d. 0.058
19. Ramu got 200 rupees profit on his Rs 4000 investment. The % of profit []
a. 4% b. 5% c. 10% d. 15%
20. 70% of students did not go for picnic then _____ of students went for picnic []
a. 20% b. 30% c. 40% d. 50
21. Varma bought a T.V for Rs. 5000 and sold it for 6000. Then his profit or loss percent is []

45. The initial kinetic energy of a body is 50J. Find the amount of work done by the force if the final kinetic energy is 150J []
- a. 50J b. 100J c. 200J d. 250J

Descriptive type questions

46. If the workdone by the force to double the speed of a body is 300J then find the amount of work done by the force to triple the initial speed of the body?
47. The kinetic energy of a body is five times to that of another body when they are moving with same velocity. Find the ratio of their mass?