

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

Class: 8-S

Marks: 100

Sub: Maths, PHYSICS, CHEMISTRY

Time: 2 ½ Hrs



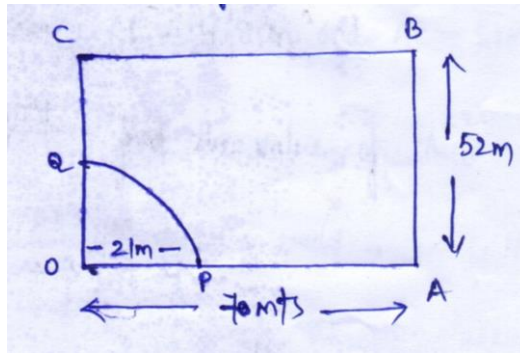
Maths

I. Answer the following questions

20x2=40M

1. Multiply $\frac{2}{11}$ by the reciprocal of $-\frac{5}{14}$
2. Express the mixed recurring decimal $15.\overline{732}$ in P/Q form
3. The length of a rectangular field is 8 metres less than twice its breadth. If the perimeter of the rectangular field is 56 metres, find its length and breadth?
4. Sum of two numbers is 29 and one number exceeds another by 5. Find the numbers
5. Construct a quadrilateral ABCD where AB= 4cm BC= 3.6 cm CD= 4.2 cm, AD= 4.8 cm and AC= 5cm
6. If $x = (\frac{3}{2})^2 \times (\frac{2}{3})^{-4}$, find the value of x^{-2}
7. Simplify i) $1+2^{-1}+3^{-1}+4^0$ ii) $(-2)^7 \times (-2)^3 \times (-2)^4$
8. The compound ratio of 3:4 and the ratio of 4:5 is 45:x then find the value of x
9. Madhu & kavitha purchased a house for Rs. 3,20,000. Due to some economic problems they sold the house for Rs. 2,80,000. Find a) the loss incurred b) the loss percentage
10. Find the smallest number by which 7776 is to be divided to get a perfect square
11. Find the square root of 12.96 by long division method.
12. Find the mean of the data for the following observation 10.25 , 9, 4.75, 8, 2.65, 12, 2.35
13. Two years ago, the mean age of 40 people was 11 years. Now a person left the group and the mean age is changed to 12 years. Find the age of the person who left the group.
14. The median of the following observation, arranged in ascending order is 15, 10, 12, 14, x-3, 1, x+2, 25 then find x
15. If $\triangle ABC \cong \triangle NMO$, name the congruent sides and angles.

16. Define congruency and similarity. Write difference between them with one example.
17. The parallel sides of trapezium are 9cm and 7cm long and the distance between them is 6cm find the area of the trapezium.
18. A horse is placed for grazing inside a rectangular field 7cm by 52m and is tethered to one corner by a rope 21m long. How much area the horse cannot graze.



19. 48 bags of paddy costs Rs 16,800 ten find the cost of 36 bags of paddy
20. If 15 workers can build a wall in 48 hours how many workers will be required to do the same work in 30 hours

Physics

II. Answer the following questions

5X2=10M

21. Give two examples each for a constant force and force at a distance?
22. What happen if we do not reduce friction in machines?
23. Write any two slogans to reduce sound pollution?
24. State the laws of reflection?
25. Give examples for good solid conductors and liquid conductors?

III. Answer the following questions

5X4=20M

26. What is a force ? what changes can be produced by a force?
27. Make a battery from four lemons and test it with a LED in the circuit?
28. How can you explain the sound has energy ? explain with an activity?

29. Give two examples of your daily life about effects which are caused by transfer of charge?
30. What is the use of artificial satellites in our daily life?

Chemistry

IV. Answer the following questions

4X4=16M

31. Draw a flow chart showing exhaustible and inexhaustible resources and their use?
32. Explain the petroleum products used for roads surfacing or explain the process of formation of petrol?
33. Why should we look for alternative sources of fossil fuel?
34. Assume that you are a driver what measures do you take to save petrol and diesel?

V. Answer the following questions

4X1=4M

35. Which one of the materials is used for making shoe polish?
36. Which of the materials is less polluting fuel?
37. Write two names of exhaustible materials?
38. Petroleum is separated by which technique is used?

VI. Fill in the blanks

10 X ½ = 5M

39. _____ was used in manufacture of steel.
40. The byproduct of coal used in synthetic dyes and paints is _____
41. _____ gas which causes climate change and global warming.
42. The main constituent of coal is _____
43. The conversion of dead vegetation into coal is called _____
44. _____ is used in the manufacture of steel.
45. Wind mills are _____ resource.
46. Which one is called liquid gold _____
47. Coal is _____ containing material.
48. Petroleum was formed from the _____ organisms.

VII. match the following

5M

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|-----|------------------------|-----|---------------------|
| 49. | natural resource | [] | a. carbonization |
| 50. | coal | [] | b. plastic chair |
| 51. | Petro chemical product | [] | c. Krishna and goda |
| 52. | natural gas | [] | d. plankton |
| 53. | petroleum | [] | e. water |