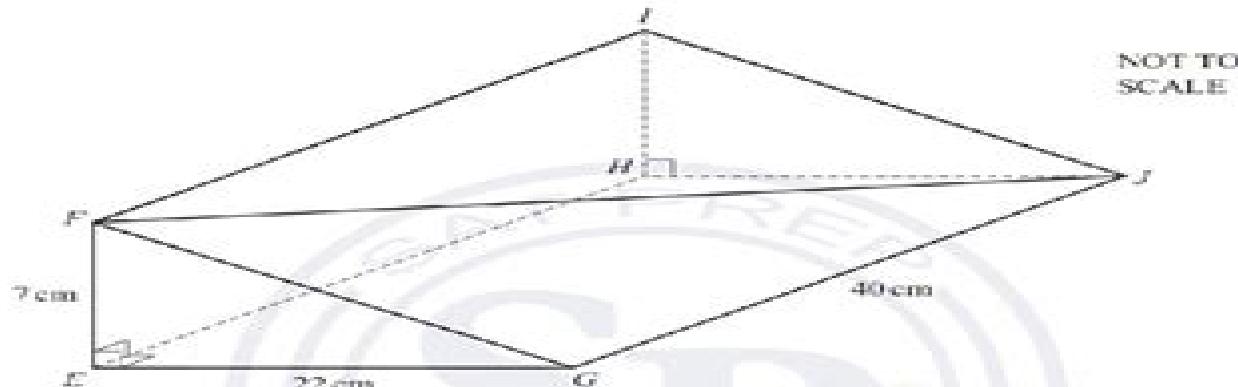


Extended Mathematics Topic :  
 Mensuration  
 Year : May 2013 - May 2022  
 Paper -4  
 Questions

Question 1



$EFGHIJ$  is a solid metal prism of length 40 cm. The cross section  $EFG$  is a right-angled triangle.  $EF = 7$  cm and  $EG = 22$  cm.

- Calculate the volume of the prism.  
*Answer(a)* .....  $\text{cm}^3$  [2]
- Calculate the length  $FJ$ .  
*Answer(b)*  $FJ =$  ..... cm [1]
- Calculate the angle between  $FJ$  and the base  $EFGHI$  of the prism.  
*Answer(c)* ..... [3]
- The prism is melted and made into spheres. Each sphere has a radius 1.5 cm.

Work out the greatest number of spheres that can be made.

[The volume,  $V$ , of a sphere with radius  $r$  is  $V = \frac{4}{3}\pi r^3$ .]

*Answer(d)* ..... [3]

Continue on the next page...

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**Sai Gopal Sunkara**

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