

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.

- (a) Calculate the volume of the prism.

Answer(a) cm³ [2]

- (b) Calculate the length FJ .

Answer(b) $FJ =$ cm [4]

- (c) Calculate the angle between FJ and the base $EFGH$ of the prism.

Answer(c) [3]

- (d) 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]

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