Swotters Academy

www.swottersacademy.com

Test / Exam Name: Maths - Visualising Solid Shapes **Standard: 7th** **Subject: Mathematics**

Student Name: ..... **Section:** ..... **Roll No.:** .....

Questions: 18 | Time: 01:00 hh:mm | Marks: 31

Instructions

1. Honesty is the best policy.
2. Start a new section from a new page

SECTION-A

Q1. Three cubes each with 2cm edge are placed side by side to form a cuboid. Its length will be: **1 Mark**

A 4cm **B** 2cm **C** 6cm **D** None of these

Q2. The number of vertices of a cube is: **1 Mark**

A 8 **B** 12 **C** 6 **D** 3

Q3. The number of faces of a cube is _____. **1 Mark**

A 4 **B** 6 **C** 8 **D** None of these

Q4. Rakesh has 10 one rupee coins of similar kind. He puts them exactly one on the other. What shape will he get finally? **1 Mark**

A Circle **B** Cylinder **C** Cube **D** Cone

Q5. How many circular bases does a cylinder have? **1 Mark**

A 1 **B** 2 **C** 3 **D** 4

Q6. What cross-sections do you get when you give a **1 Mark**

1. Vertical cut.
2. Horizontal cut.

To the following solids?

An ice cream cone.

Q7. Fill in the blanks: **1 Mark**

A sphere has a _____ surface.

Q8. Fill in the blanks: **1 Mark**

A cuboid has _____ rectangular faces edges _____ and _____ vertices.

Q9. Write (T) for true and (F) for false: **1 Mark**

A cylinder has no vertex.

Q10. Write (T) for true and (F) for false: **1 Mark**

A cube has 6 faces, 12 edges and 8 vertices.

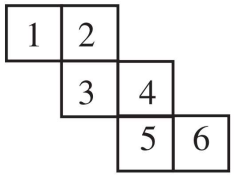
Q11. Write (T) for true and (F) for false: **1 Mark**

A sphere has one edge.

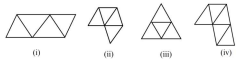
SECTION-B

Q12. Here is an incomplete net for making a cube. Complete it in at least two different ways. **2 Marks**

Q13. Can the following be a net for a die? Explain your answer. **2 Marks**

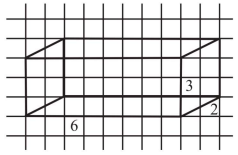


Q14. Out of the following four nets there are two correct nets to make a tetrahedron. Identify them. **1 Mark**

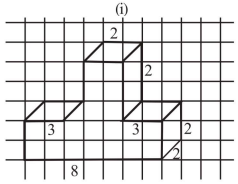


Q15. Three cubes each with 2cm edge are placed side by side to form a cuboid. Sketch an oblique or isometric sketch of this cuboid. **3 Marks**

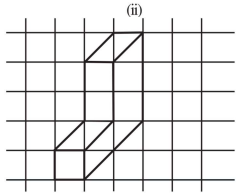
Q16. Use isometric dot paper and make an isometric sketch for each one of the given shapes: **3 Marks**



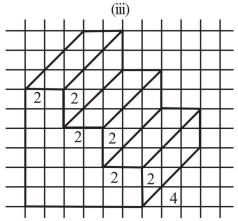
(i)



(ii)



(iii)



(iv)

SECTION-C

Q17. Complete the following table and verify Euler's formula in each case. **4 Marks**

				
Faces (F)	6	4	9	7
Edges (E)	12	6	16	15
Vertex (V)	8	4	9	10

Q18. Give thjree examples from our daily life which are in the form of: **5 Marks**

1. a come.
2. A sphere.
3. A cuboid.
4. A cylinder.
5. A pyramid.