1. Which material is commonly used in energy-efficient and cost-effective building techniques due to its abundance and thermal properties?

a) Stone Dust
b) Red Mud
c) Fly Ash
d) Gypsum

Answer: c) Fly Ash
Fly ash, a byproduct of coal combustion, is widely used in energy-efficient building techniques due to its abundance and excellent thermal insulation properties. It is cost-effective and environmentally friendly, making it a preferred choice in construction.

2. What type of walls are constructed using stabilized and sun-dried materials, often incorporating soil and fibres?

a) Solid Concrete Blocks
b) Ferrocement Partitions
c) Soil Blocks & Bricks
d) Stone Masonry Blocks

Answer: c) Soil Blocks & Bricks
Soil blocks and bricks are constructed using stabilized and sun-dried materials, typically incorporating soil and fibres. These walls are energy-efficient, environmentally friendly, and cost-effective, making them suitable for sustainable construction practices.

3. Which roofing technique utilizes precast elements such as plank & joists or L-panel roofs to enhance energy efficiency and cost-effectiveness?

a) Thatch Roof
b) Precast Funicular Shells
c) Filler Slab
d) Improved Country Tiles

Answer: c) Filler Slab
Filler slab roofing technique utilizes precast elements such as plank & joists or L-panel roofs to enhance energy efficiency and cost-effectiveness. These slabs reduce the overall weight of the roof, leading to savings in construction materials and energy consumption.

4. What building material, often used in partitions, is known for its high strength-to-weight ratio and corrosion resistance?

a) Stone Dust
b) Red Mud
c) Ferrocement
d) Lime

Answer: c) Ferrocement
Ferrocement, known for its high strength-to-weight ratio and corrosion resistance, is often used in partitions. It is a cost-effective and energy-efficient material suitable for various construction applications.

5. Which roofing material, made from natural fibers, is known for its excellent thermal insulation properties and is commonly used in eco-friendly construction?

a) Seasal Fibre Roof
b) Precast Channel Roof

c) M.C.R. Tile
d) Gypsum

Answer: a) Seasal Fibre Roof
Seasal fibre roof, made from natural fibers, is known for its excellent thermal insulation properties. It is commonly used in eco-friendly construction due to its sustainability, energy efficiency, and cost-effectiveness.

6. Which alternative to traditional wood is derived from recycled materials and is gaining popularity in sustainable construction practices?

a) Stone Dust
b) Red Mud
c) Alternate Wood
d) Gypsum

Answer: c) Alternate Wood
Alternate wood, derived from recycled materials, is gaining popularity in sustainable construction practices. It offers a cost-effective and environmentally friendly alternative to traditional wood, reducing deforestation and promoting resource conservation.

7. What type of blocks are known for their energy-efficient properties and are commonly used in walls for sustainable construction?

a) Solid Concrete Blocks
b) Hollow Concrete Blocks
c) Stone Masonry Blocks
d) Ferrocement Partitions

Answer: b) Hollow Concrete Blocks
Hollow concrete blocks are known for their energy-efficient properties and are commonly used in walls for sustainable construction. Their hollow design enhances thermal insulation and reduces the overall weight of the structure, leading to energy savings and cost-effectiveness.

8. Which material, often used in construction for its binding properties, is also known to improve soil stability and reduce environmental impact when used in building techniques?

a) Lime
b) Fibres
c) Gypsum
d) Polymer

Answer: a) Lime
Lime, known for its binding properties, is also used in construction to improve soil stability and reduce environmental impact. It is a cost-effective and environmentally friendly material that enhances the sustainability of building techniques.

9. What roofing technique utilizes precast elements shaped like shells to provide structural strength and reduce material usage?

a) Precast R.C. Plank & Joists Roof
b) Ferrocement Shells
c) Improved Country Tiles
d) Thatch Roof

Answer: b) Ferrocement Shells

Ferrocement shells roofing technique utilizes precast elements shaped like shells to provide structural strength and reduce material usage. This method enhances energy efficiency and cost-effectiveness in construction projects.

10. Which material, often derived from industrial processes, is used in walls and roofs to enhance structural integrity and reduce the carbon footprint of construction?

a) Stone Dust
b) Fly Ash
c) Red Mud
d) Gypsum

Answer: b) Fly Ash
Fly ash, often derived from industrial processes, is used in walls and roofs to enhance structural integrity and reduce the carbon footprint of construction. It is a cost-effective and environmentally friendly material that contributes to energy-efficient building practices.