CH-05

BRICKS AND BRIDGE

- **Tick the correct option:**

1.**What materials are used to make a tent?**

[ ] Bricks and stones

[*] Canvas or nylon

[ ] Bamboo and straw

[ ] Mud and wood

2.**In which state of India does Lokhan live?**

[ ] West Bengal

[ ] Tamil Nadu

[*] Arunachal Pradesh

[ ] Uttarakhand

3.**What kind of rainfall does Lokhan’s village receive?**

[ ] No rainfall

[ ] Very light rainfall

[*] Heavy rainfall

[ ] Moderate rainfall

4.**Lokhan's house is made up of which materials?**

[ ] Bricks, stones, and cement

[*] Mud, bamboo, straw, and dry leaves

[ ] Canvas and nylon

[ ] Iron rods and glass

5.**Who is Lokhan's father?**

[ ] Ayaan

[ ] Lokhan

[*] Ali

[ ] A manager

6.**What type of bridge did Ali cross when he was young?**

[ ] Suspension bridge

[*] Bamboo bridge

[ ] Cantilever bridge

[ ] Cable-stayed bridge

7.**Why is clay mined and stored in the open during the brick-making process?**

[ ] To mi* it with water

[ ] To make it hard and heavy

[*] To make it soft and remove unwanted o*ides

[ ] To give it a rectangular shape

8.**What is mixed with clay during the "Tempering" stage?**

[ ] Sand

[*] Water

[ ] Cement

[ ] Oil

9.**Why is a lump of clay mixture rolled in sand before being put into a mould?**

[ ] To color the brick

[*] So that the brick does not stick to the mould

[ ] To make the brick dry faster

[ ] To make the mi*ture liquid

10.**How often are bricks turned over on the drying area for uniform drying?**

[ ] Every hour

[*] Every two days

[ ] Every week

[ ] Once a month

11.**Where are bricks arranged for baking?**

[ ] In an open field

[ ] In a water tank

[*] In a kiln

[ ] On a bridge

12.**What color do bricks turn after they are baked?**

[ ] Yellowish-green

[*] Reddish-brown

[ ] Pure white

[ ] Dark black

13.Who is Ayaan?

[ ] Lokhan’s father

[*] The construction site manager's son

[ ] A brickmaker

[ ] Lokhan's village head

14.**What were early suspension bridges made of?**

[ ] Iron rods and concrete

[*] Wood and rope

[ ] Bamboo and mud

[ ] Canvas and steel

15.**Where is Lakshman Jhula located?**

[ ] Over River Godavari in Andhra Pradesh

[*] On River Ganga in Rishikesh (Uttarakhand)

[ ] In Kolkata (West Bengal)

[ ] In Mumbai (Maharashtra)

16.**Which type of bridge supports its load through diagonal bracing and often uses a truss formation?**

[ ] Suspension Bridge

[*] Cantilever Bridge

[ ] Cable Stayed Bridge

[ ] Beam Bridge

17.**Where is the famous Howrah Bridge located?**

[ ] Mumbai

[ ] Rishikesh

[*] Kolkata (West Bengal)

[ ] Rajahmundry

18.**What does a Cable Stayed Bridge use to attach to its pillars?**

[ ] Long thick chains

[*] Short cables

[ ] Wooden ropes

[ ] Bamboo sticks

19.**Where is the Bandra Sea Link Bridge located?**

[ ] In the Bay of Bengal

[*] In the Arabian Sea, Mumbai (Maharashtra)

[ ] On River Ganga

[ ] On River Godavari

20.**What are bridges built over roads to ease the movement of traffic called?**

[ ] Truss bridges

[ ] Movable bridges

[*] Flyovers

[ ] Arch bridges

- **Fill in the Blanks:**

1.Temporary houses include structures like huts, tents, tree houses, and log cabins.

2.Permanent houses like bungalows, flats, and villas are built with bricks, stones, cement, iron rods, glass, and wood.

3.Lokhan lives in a village named Dong across River Lohit.

4.Arunachal Pradesh is a hilly area with a very small population.

5.Lokhan's father, Ali, took him to a construction site where he worked as a helper.

6.Ali told Lokhan that when he was young, there was no bridge, so he had to swim across the river to go to the other side.

7.The first step involved in the brick-making process is Mining.

8.During tempering, clay is mixed with water to make a dough.

9.In the moulding process, a lump of mixture is rolled in sand and put into a metal mould.

10.The mould is emptied onto the drying area to remove moisture.

11.Firing the bricks in a kiln for baking makes the bricks strong.

12.Lokhan's parents had to repair their small hut regularly because it got damaged whenever it rained.

13.A bridge is a structure that is built over a river, road, or railway to help easy movement of people, goods, and vehicles.

14.The early bridges were made by nature, like a fallen tree on a river, stream, or pond.

15.A Suspension Bridge can cover a long distance and its earlier forms were made of wood and rope.

16.The Howrah Bridge located in Kolkata is a classic example of a Cantilever Bridge.

17.The Rajahmundry railway bridge on River Godavari is an example of a Truss Bridge.

18.The Pamban Bridge at Rameshwaram is an example of a Movable Bridge.

19.Mahatma Gandhi Setu in Patna, Bihar is a type of Beam Bridge.

20.Lokhan decided to become an engineer and design some wonderful bridges in the future.