

## **Department of Civil Engineering**

## **CE8022 – Prefabricated Structures**

## **Unit IV – MCQ Bank**

- 1. Function of Joints in Precast structure is
- a. To connect various Pre cast elements
- b. To relieve the stresses due to temperature
- c. To relieve the stresses due to shrinkage
- d. All the above

Answer: d

- 2. Need of Expansion joint is
- a. To allow expansion of a member due to temperature
- b. To allow contraction of a member due to temperature
- c. Both a and b
- d. None of the above

Answer: c

- 3. Joint Based on load transfer are
- a. Tension joint
- b. Compression joint
- c. Shear joint
- d. All the above

Answer: d

- 4. Adhesion and bonding comes under which of the following joint
- a. Tension joint

b. Compression joint	
c. Shear joint	
5 Elastomeric bearing pad isused in joints	
a. Tension joint	
b. Compression joint	
c. Shear joint	
Answer: b	
6. Lapping and looping done in which type of joints	
a. Tension joint	
b. Compression joint	
c. Shear joint	
Answer: a	
7. In the following which is not a rigid joint	
a. Welded joint	
b. Concrete joint	
c. Bolted joint	
Answer: c	
8. Which one of the following is the wet joint	
a. Grouting	
b. Welding	
c. Bolting	
Answer: a	
9. Beam positioned on acorbelis type of connection	
a. Fixed	

## b. Pinned

Answer: b

- 10. -----By using post tensioning we can achieve type of connections
- a. Moment resisting
- b. Pinned

Answer: a

- 11. Types of Expansion joints used in Bridges are
- a. Open type
- b. Sealed type
- c. Both

Answer: c

- 12. Required properties of sealants
- a. Be relatively impermeable
- b. Deform to accommodate the movement and rate of movement occurring at the joint
- c. Sufficiently recover its original properties and shape after cyclical deformations
- d. All the above

Answer: d

13. Thermal movement ( $\Delta$ temp) is calculated as

( $\alpha$  = coefficient of thermal expansion,L –length B-Breath ,  $\delta T$  = temperature variation

- a.  $(\alpha) \cdot (B) \cdot (\delta T)$
- b.  $(\alpha) \cdot (L) \cdot (\delta T)$ .
- c.  $(\alpha) \cdot (L) (B) \cdot (\delta T)$

Answer: b

14. Allowable bearing stress in mortar bed is

- a. 2.5N/mm<sup>2</sup>
- b. 5.0N/mm<sup>2</sup>
- c. 15.0 N/mm<sup>2</sup>

Answer: a

- 15. Pick the draw backs of improperly designed joints
- a. May hammer the function of structure
- b. May lead structural failure.
- c May leads to leakage problem
- c. All the above

Answer: d

- 16. Water stopper is
- a. A tap used to stop water
- b. Material embedded in concrete to obstruct passage of water through joint
- b) Value used to regulate water supply

Answer: b

17. Construction joints are provided in Prefabricated

Structures.

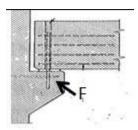
- a. True
- b. False

Answer: b

- 18.Bitumen is used as a sealant material.
- a. True
- b. False

Answer: a

19.



Name the element indicated as F

- a. Beam
- b. Column
- c. Corbel
- d. None of the above





- a. Strut
- b. Tie
- c. Stub

Answer: c

- 21. The joint which are placed in concrete slab to control the random cracking is
- a. Compression joint
- b. Expansion joint
- c. Shear joint

Answer: a

- 22.Shear key also known as
- a. Castellated joint

- b. Shear joint
- c. Tension joint

Answer: a

- 23. How many types of joint in structural members
- a.3
- b.4
- c. 2

Answer: a

- 24 How many types of connection in structural members
- a. 3
- b. 4
- c. 2

Answer: a

- 25.Bearing pads are used to distribute
- a. Concentrated load
- b. Lateral load
- c. UDL

Answer: a

