

ARCHITECTURAL DRAUGHTSMAN QUESTION BANK

ARCHES AND LINTELS

- Why is lintel preferred against arches in some constructions?
 - arches require more height to span
 - arches are constructed only for monuments
 - arches cannot withstand weight
 - arches cannot transfer load
- What is the depth of an arch?
 - Distance between intrados and extrados
 - distance between ground level and springing line
 - Distance between springing line and intrados
 - distance between crown and ground line
- What is the central voussoir at the highest point of the arch called?
- What is the temporary structure that supports arch during construction?
- What is the standard height of lintel bottom from ground provided for doors and windows?
- Which member acts as a beam and is provided above door and window?
- Which type of lintel is suitable for timber construction
- Which type of lintel is not suitable for a span more than 900mm?
- What is outer curve of an arch called?
- What is the purpose of skew back in an arch?
 - To reduce the height of arch
 - to provide span
 - to support the key stone
 - to rest the abutment of the arch

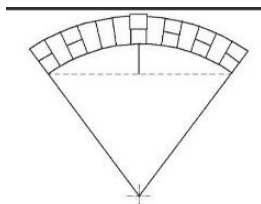
11. Which type of lintel requires reinforcement?

12. Which is an intermediate support of an arch called?

13. What is provided to brick lintel if the span is more than 900mm?

14. Which type of lintel is provided for large spans without the depth of lintel?

15. Identify the type of an arch?

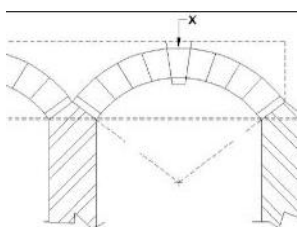


16. Which type of arch does not require rise?

17. What is the minimum bearing that should be provided for a wood or timber lintel?

18. What is the part marked as X?

- a) springer b) crown c) voussoirs d) pier



19. What is the purpose of piers in an arch?

- a) to clad the arch b) to span the arch c) to rest the arch d) to crown the arch

20. What is the advantage of voussoirs in an arch?

- a) to support the wall b) to decorate the arch c) to form an arch uniformly d) to increase the cost

ARCHITECTURAL DRAUGHTSMAN QUESTION BANK

ARCHES AND LINTELS

21. Which type of arch has the centre point below the springing line?

- a) French arch b) semicircular arch c) flat arch d) segmental arch

22. Which type of arch requires wooden lintel to span over?

- a) relieving arch b) French arch c) dutch arch d) 2 point arch

23. What is the difference between brick arch and wooden arch?

- a) heights are different b) materials are different c) functions are different d) positions are different

24. Why is RCC lintel better than wooden lintel?

- a) cost is more b) durability is more c) strength is less d) easy to transport

25. Which materials of arches used in factory buildings?

- a) cement mortar arches b) brick arches c) steel arches d) wooden arches