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Tunnel Engineering MCQ Test

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Q1. is a component of a shield for tunneling?

- A. Stiffener
- B. Trench jack
- C. Liner plate
- **D. Cutting edge**

Q2. The circular section of tunnels is not suitable for

- A. Carrying water
- B. Non-cohesive soils
- **C. Placement of concrete lining**
- D. Tunnels driven by shield method

Q3. Which of the following methods are utilized for permanent drainage of tunnels?

- A. Concrete lining
- B. Continuous open drains
- C. Provision of longitudinal drains
- **D. All of the above**

Q4. Which lining material is useful for shield driven tunnels in sub aqueous regions?

- A. Timber
- **B. Cast iron**
- C. Stone masonry

- D. Cement concrete

Q5. Which of the following statements is incorrect for the heading and benching method of tunneling?

- A. Removal of muck from the heading is very easy
- B. **Drilling and mucking can be done simultaneously**
- C. Benching provides a platform for working on heading
- D. All of the above

Q6. The method of flowing in tunnels is commonly known as

- A. Dewatering
- B. Foredrainage
- C. Permanent drainage
- D. **All of the above**

Q7. Which methods of tunneling do not require the use of time bearing?

- A. Shield method
- B. Linear plate method
- C. Compressed air method
- D. **All of the above**

Q8. The tunnels & the artificial underground passages are constructed for which purpose?

- A. Highways
- B. Railways
- C. Sewerage
- D. **All of the above**

Q9. Which of the following explosive is used for tunneling in soft rocks?

- A. Special gelatine
- B. Blasting gelatine
- C. Semi-gelatine.
- D. **Ammonia dynamite**

Q10. is not a component of shield.

- A. Tail
- B. Hood
- **C. Liner Plate**
- D. Propelling Jacks

Q11. Which methods of tunneling is used for long tunnels at great depths?

- A. Army Method
- B. English Method
- **C. Austrian Method**
- D. Needle Beam Method

Q12. What is the most suitable soil for compressed air tunneling?

- A. Silt
- **B. Clay**
- C. Sand
- D. Gravel

Q13. Which of the following tunnelling method is used for laying under ground sewers?

- **A. Army Method**
- B. Italian Method
- C. German Method
- D. None of the above

Q14. Is american method of tunneling is suitable for large sized tunnels

- **A. Yes**
- B. No

Q15. The Drift method of tunnelling is used to construct tunnels in

- **A. Rocks**
- B. Broken grounds

- C. Soft grounds
- D. None of the above

Q16. Construction of roof arch is completed before side walls and invert are built in Belgium method of tunnelling.

- A. True
- B. False

Q17. The first operation relates to in the "full face" method of constructing tunnels.

- A. Removal of top portion
- B. Removal of bottom portion
- C. Excavation of one drift in the centre
- D. Excavation being done along the periphery

Q18. The section of the tunnel must have a width for B.G. single track.

- A. 4.5 m to 4.8 m
- B. 4.9 m to 5.5 m
- C. 5.5 m to 5.8 m.
- D. None of the above

Q19. Railway tunnels are generally

- A. Circular
- B. Parabolic
- C. Polycentric
- D. Rectangular

Q20. We use to attain the required shape of the 'tunnel section.

- A. Chisels
- B. Easers
- C. Trimmers
- D. Cut holes