

***** EXAMINATION *****

DUCTILE CLADDING CONNECTION SYSTEMS FOR SEISMIC DESIGN

1. **The application of one material over another to provide a**
 - a) layer to control the infiltration of weather is adding
 - b) layer to control the infiltration of weather is padding
 - c) layer to control the infiltration of weather is cladding
 - d) layer to control the infiltration of weather is madding

2. **The fundamental expression of architecture is a**
 - a) beam design
 - b) furnace design
 - c) facade design
 - d) foundation design

3. **The cycle where the stress is high enough for plastic**
 - a) deformation is high-cycle fatigue
 - b) deformation is low-cycle fatigue
 - c) deformation is normal-cycle fatigue
 - d) deformation is cycle stress state

4. **A cladding connector must be capable of transmitting the**
 - a) vertical or gravity load
 - b) normal load
 - c) transverse load
 - d) All of the above

5. **The property of materials that exhibit both viscous and elastic**
 - a) traits when undergoing deformation is viscoelasticity
 - b) traits when undergoing deformation is viscoplasticity
 - c) traits when undergoing deformation is rubber elasticity
 - d) traits when undergoing deformation is rubber viscosity

6. **The practice and science of classification is called**
 - a) taxonomy
 - b) nosologyy
 - c) ontology
 - d) chresonym

7. **The process of finding function extrema to solve problems is**
 - a) theorization
 - b) optimization
 - c) maximization
 - d) stabilization

8. **The concepts for advanced cladding connectors includes**
 - a) tapered flexural tie back connector
 - b) composite bearing connector
 - c) torsion tie-back connector
 - d) All of the above

9. **The type of electrical transformer used for measuring linear**
 - a) displacement is rotary variable differential transformer
 - b) displacement is energy efficient transformer
 - c) displacement is linear variable differential transformer
 - d) displacement is toroidal inductor and transformer

10. **The analysis used to determine peak displacements due to**
 - a) support acceleration is response spectrum analysis
 - b) support acceleration is independent component analysis
 - c) support acceleration is time series analysis
 - d) support acceleration is stress analysis

11. **The weight of material that are relatively constant**
 - a) throughout the structures life is called live load
 - b) throughout the structures life is called dead load
 - c) throughout the structures life is called structural load
 - d) throughout the structures life is called genetic load

12. **Forces that vary within the objects normal operation**
 - a) cycle is live load
 - b) cycle is dead load
 - c) cycle is structural load
 - d) cycle is genetic load

13. **The space between two arches or between an arch and a**
 - a) rectangular enclosure is a weep
 - b) rectangular enclosure is a porch
 - c) rectangular enclosure is a spandrel
 - d) rectangular enclosure is a periphery

14. **The boundary or outer part of any space or body is**
 - a) a weep
 - b) a porch
 - c) a spandrel
 - d) a periphery

15. **The material that can be stretched, drawn or hammered thin**
- a) without breaking is a brittle material
 - b) without breaking is a ductile material
 - c) without breaking is a viscoelastic material
 - d) without breaking is a synthetic material
16. **The load that arises from interstory drift due to seismic**
- a) force is transverse load
 - b) force is gravity load
 - c) force is normal load
 - d) force is dead load
17. **The load arising from wind or environmental forces and usually**
- a) carried by all kinds of connectors is transverse load
 - b) carried by all kinds of connectors is gravity load
 - c) carried by all kinds of connectors is normal load
 - d) carried by all kinds of connectors is dead load
18. **The connectors capable of supporting gravity loads are**
- a) usually called tensile connectors
 - b) usually called elastic connectors
 - c) usually called stress connectors
 - d) usually called bearing connectors
19. **The force in the plane of the cladding in the horizontal**
- a) direction is transverse load
 - b) direction is gravity load
 - c) direction is normal load
 - d) direction is dead load
20. **The force perpendicular to the vertical plane of the**
- a) cladding is transverse load
 - b) cladding is gravity load
 - c) cladding is normal load
 - d) cladding is dead load

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