

**\*\*\* EXAMINATION \*\*\***

**DEVELOPMENT OF PROCEDURES TO ENHANCE THE  
PERFORMANCE OF REHABILITATED URM BUILDINGS**

1. **The addition of new technology or features to an older**
  - a) system is remodeling
  - b) system is overhauling
  - c) system is cloning
  - d) system is retrofitting
  
2. **The large rectangular brick used in construction**
  - a) is a fiber reinforced concrete
  - b) is a compressed earth block
  - c) is a concrete masonry unit
  - d) is a cold formed steel
  
3. **A wall consisting of two skins separated by a**
  - a) hollow space is a shear wall
  - b) hollow space is a cavity wall
  - c) hollow space is a curtain wall
  - d) hollow space is a bearing wall
  
4. **A wall composed of braced panels to counter the effects of**
  - a) lateral load acting on a structure is a shear wall
  - b) lateral load acting on a structure is a cavity wall
  - c) lateral load acting on a structure is a curtain wall
  - d) lateral load acting on a structure is a bearing wall
  
5. **The building of a structure from individual units laid**
  - a) in and bound together by mortar is carpentry
  - b) in and bound together by mortar is masonry
  - c) in and bound together by mortar is jointry
  - d) in and bound together by mortar is pottery
  
6. **The outer layer applied to a surface for decoration or**
  - a) protection is a fastener
  - b) protection is a dumper
  - c) protection is a veneer
  - d) protection is a render

7. **A type of wall in which a wall of structure bears the weight**
- a) and force resting upon it is a shear wall
  - b) and force resting upon it is a cavity wall
  - c) and force resting upon it is a curtain wall
  - d) and force resting upon it is a bearing wall
8. **The structural engineering system used to resist lateral**
- a) loads is monocoque
  - b) loads is coachwork
  - c) loads is woodstave
  - d) loads is diaphragm
9. **The mechanical property used to describe the material to**
- a) deform plastically without fracture is elasticity
  - b) deform plastically without fracture is plasticity
  - c) deform plastically without fracture is ductility
  - d) deform plastically without fracture is flexibility
10. **Describing the strength of material against the type of**
- a) yield where the material fails in shear is shear strength
  - b) yield where the material fails in shear is shear stress
  - c) yield where the material fails in shear is shear modulus
  - d) yield where the material fails in shear is shear mapping
11. **The applied stress that acts towards the center of the**
- a) material is yield stress
  - b) material is compressive stress
  - c) material is shear stress
  - d) material is plane stress
12. **A strength indicated by the maxima of a stress-strain curve**
- a) and indicates when necking will occur is tensile stress
  - b) and indicates when necking will occur is tensile modulus
  - c) and indicates when necking will occur is tensile strength
  - d) and indicates when necking will occur is tensile structure
13. **The most favorable mode is rocking because it is a flexural**
- a) action that is force-controlled
  - b) action that is stress-controlled
  - c) action that is uncontrolled
  - d) action that is displacement-controlled
14. **The toe crushing is a flexural action that is**
- a) force-controlled
  - b) stress-controlled
  - c) uncontrolled
  - d) displacement-controlled

15. **Bed-joint sliding is a shear action that is**
- a) force-controlled
  - b) stress-controlled
  - c) uncontrolled
  - d) displacement-controlled
16. **The least favorable mode for being a force-controlled**
- a) shear action is bed-joint sliding
  - b) shear action force controlled is diagonal tension
  - c) shear action force controlled is toe crushing
  - d) shear action force controlled is rocking
17. **The material's ability to resist deformation under load is**
- a) flexural stress
  - b) flexural bearing
  - c) flexural strength
  - d) flexural rigidity
18. **The mode of failure for composite materials is**
- a) delamination
  - b) deformation
  - c) distortion
  - d) deterioration
19. **The resistance of an elastic body to deformation by an**
- a) applied force is susceptance
  - b) applied force is solubility
  - c) applied force is resistivity
  - d) applied force is stiffness
20. **The purpose of the coating procedure is to increase**
- a) vertical compressive strength
  - b) shear strength for walls subjected to in-plane loadings
  - c) flexural strength for walls subjected to in plane loadings
  - d) All of the above

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