

Question Bank (K scheme)

Name of Subject: Emerging Trends in Civil Engineering (ETC)

Subject code: 315315

Semester: V

Unit Test: I

Course:

CE5K

Each question carries 1 mark

Unit I (Softwares in Civil Engineering)

1. GUI means

- a. Golden unit of internal software
- b. Graphical user interface
- c. Graphical user intelligently
- d. Golden user interface

Ans. b. Graphical user interface

2. The process of creating a 3D realistic model of a building is called

- a. Drawing
- b. Drafting
- c. Elevation
- d. Rendering

Ans. d. Rendering

3. For hydraulic and water modeling solutions which software is used

- a. STRAP
- b. Autocad
- c. Water Gems
- d. ETab

Ans. c. Water Gems

4. REVIT software is developed by:

- a. AutoCAD
- b. AutoDesk
- c. Bentley
- d. Tekla

Ans. b. AutoDesk

5. Which of these is not a structural analysis and design software?

- a. STAADPro
- b. ETABS
- c. SAP 2000
- d. HEC-RAS

Ans. d. HEC-RAS

6. Build Master is used for

- a. RCC design
- b. Steel structure design
- c. Estimating
- d. None of the above

Ans. c. Estimating

7. A cloud base mapping, analysis and data storage system hosted by Esri is

- a. Tekla
- b. ArcGis
- c. Arch.Desktop
- d. Water Gems

Ans. b. ArcGis

8. Quik Grid software can be used to:

- a. Create 3D renders of buildings
- b. Design water supply systems
- c. Create contour maps
- d. Analyse framed structures

Ans. c. Create contour maps

9. Which software can be used for designing connections in steel structures?

- a. RISA Connection
- b. WaterGEMS
- c. HEC RAS
- d. Quik Grid

Ans. a. RISA Connection

10. Which software enables construction teams to monitor and manage centralized estimates, takeoffs, reports and contracts?

- a. AutoCAD
- b. ProEst
- c. REVIT
- d. ArcGIS

Ans. b. ProEst

11. Midas software is used for design of_____.

- a. Bridges
- b. Water tanks
- c. Tunnels
- d. Channels in Irrigation projects

Ans. Bridges

12. BPMS means _____.

- a. Building Programme Management System
- b. Building Planning and Management System
- c. Building Project Master Strategy
- d. Building Plumbing and Management System

Ans. b. Building Planning and Management System

13. Geo-5 software is used for _____.

- a. Analysis of RCC buildings
- b. Analysis of slope stability in underground construction
- c. Location of airplanes in sky
- d. None of the above

Ans. b. Analysis of slope stability in underground construction

Unit II (Advance Construction Materials)

14. Bricks manufactured to absorb NO_x and other gases from atmosphere are called ____.

- a. Preventive addition bricks
- b. Preventive atmospheric bricks
- c. Pollution absorbing bricks
- d. Pollution absent bricks

Ans. c. Pollution absorbing bricks

15. _____sand is the outcome of weathering of rocks.

- a. Natural sand
- b. Artificial sand
- c. Mixed sand
- d. Crushed stone sand

Ans. a. Natural sand

16. Which of these can be used as an alternative for steel reinforcement:

- a. Carbon fibre
- b. Glass fibre
- c. Timber
- d. Plastic

Ans. a. Carbon fibre

17. Cooling bricks are manufactured by _____.

- a. Kiln burning
- b. Clamp burning
- c. 3D printing
- d. None of these

Ans. c. 3D printing

18. Masterglanium is used as an admixture in concrete and is made up of _____.

- a. Silicon
- b. Germanium
- c. Polycarboxylic ether
- d. None of these

Ans. c. Polycarboxylic ether

19. Bendable concrete is also known as _____.

- a. Engineered Cementitious Composites (E.C.C)
- b. Light Weight Concrete (L.W.C)
- c. High Performance Concrete (H.P.C)
- d. None of these.

Ans. a. Engineered Cementitious Composites (E.C.C)

20. Light transmitting concrete is used in building to provide:

- a. More natural light inside
- b. Reduce need of artificial light
- c. Energy efficient building
- d. All of the above

Ans. d. All of the above

21. Concrete Fabric is also known as _____.

- a. Concrete fiber
- b. Concrete canvas
- c. Concrete Jali
- d. None of these

Ans. b. Concrete canvas

22. Timbercrete is used now-a-days for:

- a. Thermal insulation of buildings
- b. Fire resistant material
- c. Low carbon emission
- d. All of the above

Ans. d. All of the above

23. A special concrete designed to repel water and offer more durability than conventional concrete is known as _____

- a. Hydrogenic concrete
- b. Hydrolic concrete
- c. Hydrophobic concrete
- d. None of these

Ans. c. Hydrophobic concrete

24. P.P.C.P is a type of concrete panel used in construction of road and it is

- a. Precast concrete panels
- b. Pre-cast Prestressed concrete panels
- c. Prestressed concrete panels
- d. None of these

Ans. b. Pre-cast Prestressed concrete panels

25. _____ is a chemical mixed in conventional concrete mixture to make it hydrophobic concrete.

- a. Acetic acid
- b. Stearic acid
- c. Oxalic acid
- d. None of these

Ans. b. Stearic acid

Unit III (Advance Construction Equipments)

26. Full form of LiDAR is:

- a. Light detection and removal
- b. Longitudinal direction and ranging
- c. Light detection and ranging
- d. Laser direction and ranging

Ans. c. Light detection and ranging

27. _____ is a surveying method that targets the object of interest with a pulse of light, and measures the time taken for the light to reflect back to the detector.

- a. LiDAR
- b. GPS
- c. Chain surveying
- d. Plane table surveying

Ans. a. LiDAR

28. A system used to detect the position of objects on the earth's surface using satellites that orbit the earth is called:

- a. GPS
- b. GIS
- c. GFS
- d. GBPS

Ans. a. GPS

29. Photogrammetry is the process of:

- a. deriving metric information about an object through measurement made on the photograph of the object.
- b. Processing photos in software
- c. Creating coloured photos from monochromatic ones
- d. None of the above

Ans. a. deriving metric information about an object through measurement made on the photograph of the object.

30. _____ is loader machine with a tracked chassis and a loader that can be used for digging and moving/loading materials

- a. Skid Loader
- b. Crawler Loader
- c. Excavator
- d. All of the above

Ans. b. Crawler Loader

31. Forklift truck is used for:

- a. Lifting and lowering
- b. Vertical Transportation
- c. Both 'a' and 'b'
- d. None of the above

Ans. c. Both 'a' and 'b'

32. The trencher which cuts with a digging chain or belt that is driven around a rounded metal frame or boom is called:

- a. Rockwheel trencher
- b. Chain Trencher
- c. Micro Trencher
- d. Portable trencher

Ans. b. Chain Trencher

33. _____ is used to lift and move materials over short distances.

- a. Cranes
- b. Forklift truck
- c. Belt conveyor
- d. None of the above

Ans. b. Forklift truck

34. Skid loaders are primarily used for _____

- a. Digging tunnels
- b. Heavy lifting in confined spaces
- c. Concrete pumping
- d. Road marking

Ans. b. Heavy lifting in confined spaces

35. Which crane is ideal for offshore operations?

- a. Rough terrain crane
- b. Bridge overhead crane
- c. Floating crane
- d. Tower crane

Ans. c. Floating crane

36. What does a Direct Reading Grade Rod help measure?

- a. Light
- b. Grade elevation
- c. Distance in 3D
- d. Angles

Ans. b. Grade elevation

37. _____ is a machine used for moving or removing dirt, gravel and any other unnecessary material from the surface.

- a. Scraper
- b. Shovel
- c. Trencher
- d. Backhoe

Ans. a. Scraper