

Architecture

Q-1 Unlike the Greeks, the Romans often used more than one order of columns in tiered arcades. Which order was almost invariably the base?

- a) Ionic
- b) Doric
- c) Corinthian
- d) Composite

Q-2 Which Roman author wrote what became the standard text on classical architecture?

- a) Marcus Agrippa
- b) Isidore of Miletus
- c) Anthemius of Tralles
- d) Vitruvius

Q-3 What would be most effective in reducing the deflection of a uniformly-loaded, simply-supported beam?

- a) Reducing the load by 10%
- b) reducing the span by 10%
- c) increasing the moment of inertia, I , by 10%
- d) all of the above are equally effective

Q-4 What is the internal axial tension force in the tension tie-rod for the truss shown below?

- a) 55KN
- b) 27.5KN
- c) 0 KN
- d) None

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Q-5 . Which if the following spray painting methods listed below has the highest transfer efficiency?

- a). Conventional air spray
- b). Airless spray
- c). High-volume low-pressure spray
- d). Electrostatic spray

Q-6 . Which of the following admixtures should be added to accelerate concrete setting?

- a.) Sodium chloride
- b.) Sodium carbonate
- c.) Potassium chloride
- d.) Calcium chloride

Q-7 Which of the following is NOT a necessary condition for condensation?
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- a) Saturation
- b) high altitude
- c) dew-point temperature reached
- d) surfaces

Q-8 What is the dewpoint when the dry-bulb temperature is 24°C and the wet-bulb temperature is 15°C?

- a) 8°C
- b) -18°C
- c) 36°C
- d) 4°C

Q-9. Which is the incorrect colour coding as per Vaastu for the specified element

- a) Water = Blue
- b) Fire = Red
- c) Ether = White
- d) Earth = Yellow

Q-10 which is not a correct match for structure with a likely coating or treatment:

- a) Steel piping (atmospheric service) = Organic zinc-rich primer; epoxy-polyamide midcoat; aliphatic polyurethane topcoat
- b) Lining for a chemical storage tank = FRP, vinyl ester; or epoxy resin, depending on specific product
- c) Ships, to prevent fouling = Copper oxide polymer
- d) New marine pilings = Three coats epoxy-polyamide; two coats coal tar epoxy

Q-11 In what architectural style was the Temple of Athena constructed?

- a) Composite
- b) Doric
- c) Ionic
- d) Corinthian

Q-12 The first known Corinthian column capital was seen in the construction of which temple?

- a) The Temple of Apollo
- b) The Temple of Artemis
- c) The Temple of Athena
- d) The Temple of Hephaestus

Q-13 'True Style' later came to be known as _____.

- a) Mannerism
- b) Carolingian
- c) Neoclassicism
- d) Gothic

Q-14 Which of the following, one of the Seven Wonders of the Ancient World, was burnt to the ground?

- a) The Temple of Apollo
- b) The Temple of Athena
- c) The Temple of Artemis
- d) The Temple of Hera

Q-15 Converted into a church during the Byzantine period was which of the following temples, built in the Doric style?

- a) The Temple of Paestum
- b) The Temple of Hera
- c) The Temple of Attalus
- d) The Temple of Hephaestus

Q-16 What type of building was the Stoa of Attalus?

- a) A shopping mall
- b) An amphitheatre
- c) A temple
- d) A storehouse

Q-17 Of what materials was the statue of Athena that stood in the Parthenon made?

- a) Gold and Limestone
- b) Marble and Gold

- c) Ivory and Gold
- d) Marble and Ivory

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Q-18 The critical path for the given network is...

- a) 1-2-5-7-9
- b) 1-2-5-8-9
- c) 1-2-4-6-9
- d) 1-3-8-9

Q-19. Which of the following is not correct for Stone masonry...

- a) In RUBBLE stone masonry, the stones are left in their natural state, without any kind of shaping
- b) In ASHLAR masonry, the faces of stones that are to be placed in surface positions are squared so that the surfaces of the finished structure will be more or less continuous plane surfaces.
- c) Both rubble and ashlar work may be either RANDOM or COURSED.
- d) Rubble stone masonry work is random but ashlar waork is always coursed

Q-20. IF $T(l) =$ latest allowable occurrence time, $T(e)$ earliest expected time then which of the statement is not correct?

- a) if $T(l)$ is greater than $T(e)$ then it is Positive slack
- b) if $T(l)$ is less than $T(e)$ then it is negative slack
- c) if $T(l)$ is equal to $T(e)$ then it is zero slack
- d) if $T(l)$ is not equal to $T(e)$ then it is zero slack