

PROVISIONAL ANSWER KEY

Question 118/2025/OL

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Question1:-Which of the following buildings has only Doric order used?

A:-The Parthenon

B:-The Colosseum

C:-The Hagia Sophia

D:-The Sagrada Familia

Correct Answer:- Option-A

Question2:-What is the speciality of "Kath-kuni" Architecture?

A:-It used burnt hollow bricks for construction

B:-It has roof made of bricks

C:-It has vaulted roof and arched entrances

D:-It has alternative wood and stone layers for walls

Correct Answer:- Option-D

Question3:-Sustainable design will encompass action in many spheres. Which of the following are sustainable design strategies?

A. Reduce the use of materials

B. Fair labour practices

C. Create durable and easy to repair products

D. Optimising natural light and ventilation

A:-(A), (C), (D) only

B:-(C), (D) only

C:-(A), (B), (D) only

D:-All the above

Correct Answer:- Option-D

Question4:-When all parts of an architectural composition feel as if they belong together, the composition has _____.

A:-Balance

B:-Unity

C:-Rhythm

D:-Proportion

Correct Answer:- Option-B

Question5:-Architecture that mimics natural environment to enhance and improve well-being is called:

A:-Wellness architecture

B:-Eco building

C:-Biophilic design

D:-Environmental Design

Correct Answer:- Option-C

Question6:-Where can we find Toda Architecture?

A:-The Nilgiris

B:-The Himalayas

C:-The Kutch region

D:-The Sundarbans

Correct Answer:- Option-A

Question7:-Identify from the following the act which is not considered as professional conduct for an architect:

A:-Inform the client of conditions of engagement and scale of charges

B:-Advertise the name and address of the architect in connection with calling of tender

C:-Provide suitable working environment for associates

D:-Sub commission the work to another architect without prior agreement with the client

Correct Answer:- Option-D

Question8:-Which of the following architect designed the Sri Lankan Parliament house and the Ruhuna University Campus?

A:-Gordon Gill

B:-Tadao Ando

C:-Geoffrey Bawa

D:-Louis L. Kahn

Correct Answer:- Option-C

Question9:-The Portland building in Portland and Sony building in New York city are examples of

A:-Expressionism

B:-Modernism

C:-Post Modernism

D:-Internationalism

Correct Answer:- Option-C

Question10:-The aphorism "Less is more" is attributed to which of the following architects

A:-Leon Krier

B:-Ludwig Mies van der Rohe

C:-Le Corbusier

D:-Luis Sullivan

Correct Answer:- Option-B

Question11:-Select the most suitable definition of a protected monument:

A:-All ancient monuments which are in ruins

B:-All ancient and historic monuments declared as protected monuments

C:-A monument which is above 100 years of age

D:-A building of historic and cultural significance

Correct Answer:- Option-B

Question12:-What is the name of the movement which encourages environmentally friendly walkable neighbourhoods with a wide range of housing and jobs, historic preservation and transit-oriented development?

A:-New Urbanism

B:-Urban Renewal

C:-Smart Cities

D:-Eco Cities

Correct Answer:- Option-A

Question13:-Match the Architects with their buildings:

i. Zaha Hadid m. *Casa da Musica, Porto, Portugal*

j. Frank Gehry n. *Guggenheim Museum, Bilbao*

k. Rem Koolhaas o. *Heydar Aliyev Centre, Baku*

l. Santiago Calatrava p. NYC World Trade Centre Transportation hub

A:-(i) - (o), (j) - (n), (k) - (m), (l) - (p)

B:-(i) - (m), (j) - (n), (k) - (o), (l) - (p)

C:-(i) - (p), (j) - (o), (k) - (n), (l) - (m)

D:-(i) - (n), (j) - (m), (k) - (p), (l) - (o)

Correct Answer:- Option-A

Question14:-Which of the following is more closely associated with diagonal lines?

A:-Stability of composition

B:-Balance

C:-Dynamic Movement

D:-Grounding

Correct Answer:- Option-C

Question15:-The surface quality of a shape is called:

A:-Value

B:-Texture

C:-Volume

D:-Mass

Correct Answer:- Option-B

Question16:-In early history, the copper age is also called:

A:-Neolithic Period

B:-Chalcolithic Period

C:-Mesolithic Period

D:-Paleolithic Period

Correct Answer:- Option-B

Question17:-The building is an example of Byzantine Architecture:

A:-Hagia Sophia

B:-Pantheon

C:-Parthenon

D:-Colosseum

Correct Answer:- Option-A

Question18:-The defining feature of Romanesque Architecture:

A:-Flying Buttress

B:-Pointed Arch

C:-Ribbed Vault

D:-Semi Circular Arch

Correct Answer:- Option-D

Question19:-Early Renaissance first began in this city

A:-Milan

B:-Florence

C:-Perugia

D:-Vatican

Correct Answer:- Option-B

Question20:-The Ornamental gateways of Stupa at Sanchi are also called:

A:-Chatra

B:-Suchi

C:-Torana

D:-Dwara

Correct Answer:- Option-C

Question21:-Virupaksha Temple is built in which period of Dravidian Architecture?

A:-Pandya

B:-Chola

C:-Vijayanagara

D:-Pallava

Correct Answer:- Option-C

Question22:-The platform in Khajuraho temples are also called:

A:-Jagati

B:-Urishringa

C:-Amalaka

D:-Antarala

Correct Answer:- Option-A

Question23:-An example of Deccan style of Islamic Architecture is

A:-Moti Mahal

B:-Sheesh Mahal

C:-Rani ka Maqbara

D:-Gol Gumbaz

Correct Answer:- Option-D

Question24:-The style of Architecture that espoused abstraction, straight lines and use of primary colours:

A:-De constructivism

B:-De Stijl

C:-Suprematism

D:-Constructivism

Correct Answer:- Option-B

Question25:-The kitchen of traditional Kerala temples are called:

A:-Thidappally

B:-Oottupura

C:-Sopanam

D:-Ara

Correct Answer:- Option-A

Question26:-Name of a prehistoric Mesopotamian City:

A:-Amarna

B:-Badari

C:-Uruk

D:-Naqada

Correct Answer:- Option-C

Question27:-The Sustainable Development Goal number one is

A:-No Poverty

B:-Zero Hunger

C:-Gender Equality

D:-Climate Action

Correct Answer:- Option-A

Question28:-Who proposed the Central Place Theory?

A:-David Harvey

B:-Harris Ullman

C:-Homer Hoyt

D:-Walter Christaller

Correct Answer:- Option-D

Question29:-Affordable Rental Housing Complexes will provide rental housing for a minimum period of:

A:-10 years

B:-15 years

C:-20 years

D:-25 years

Correct Answer:- Option-D

Question30:-Habitat III conference was held at:

A:-Costa Rica

B:-Ecuador

C:-Chile

D:-Argentina

Correct Answer:- Option-B

Question31:-As per NBC 2016, What is the maximum permissible gradient for a ramp for a level difference of three meters, providing access to buildings for persons with disabilities?

A:-1 : 10

B:-1 : 8

C:-1 : 12

D:-1 : 15

Correct Answer:- Option-D

Question32:-Which of the following is not a primary role of Local Self Government Institutions (LSGI) in Kerala with respect to building regulation and urban development?

A:-Issuing building permits and enforcing Kerala Building Rules (KMBR)

B:-Approving site layouts and ensuring fire safety clearance

C:-Certifying architectural qualifications

D:-Managing waste disposal and sanitation infrastructure at community level

Correct Answer:- Option-C

Question33:-As per the Architects Act, 1972 which of the following is a statutory function of the Council of Architecture (COA)?

A:-Regulating architectural education and maintaining the Register of Architects

B:-Framing rules for municipal building permits in India

C:-Determining professional tax slabs for architects across states

D:-Approving tender notices for government works

Correct Answer:- Option-A

Question34:-Under the GRIHA rating system, which credit criterion specifically addresses reduction of heat island effect at the site level?

A:-Installation of on-site renewable energy systems

B:-Use of reflective roofing materials and shaded hardscape

C:-Minimization of water use through drip irrigation

D:-Ensuring natural daylight penetration in 75% of regularly occupied spaces

Correct Answer:- Option-B

Question35:-According to Lynch and Hack's 'Site Planning', which analysis is most critical in determining the optimal placement of pedestrian circulation networks in a campus site?

A:-Mapping daily solar paths across the site

B:-Analyzing desire lines and human movement patterns

C:-Studying slope gradients and storm water drainage lines

D:-Examining Zoning restrictions and allowable FAR/FSI

Correct Answer:- Option-B

Question36:-Which of the following project management techniques is event-oriented rather than activity oriented?

A:-Gantt Chart

B:-CPM (Critical Path Method)

C:-PERT (Program Evaluation and Review Technique)

D:-Line of Balance

Correct Answer:- Option-C

Question37:-Which of the following methods is most appropriate for valuation of a property with no rental evidence but high potential resale value?

A:-Rental Method

B:-Profit method

C:-Cost method

D:-Direct comparison method

Correct Answer:- Option-D

Question38:-In Project management, a situation where two or more activities cannot proceed until a common predecessor is completed is termed:

A:-Concurrent dependency

B:-Multiple sequencing

C:-Convergent dependency

D:-Divergent dependency

Correct Answer:- Option-C

Question39:-Which of the following BEST describes the function of a lintel in building construction?

A:-To transfer roof load to foundation

B:-To Span an opening and transfer load to adjacent walls

C:-To provide aesthetic proportion above windows

D:-To distribute live load uniformly on slabs

Correct Answer:- Option-B

Question40:-Which design strategy is most effective in controlling impact noise transmission in multi-storey buildings?

A:-Using floating floors with resilient underlay

B:-Increasing wall thickness

C:-Adding double-glazing in windows

D:-Providing air gaps in cavity walls

Correct Answer:- Option-A

Question41:-Which of the following is a primary benefit of BIM implementation in construction project management?

A:-Complete elimination of project cost overruns

B:-Automatic resolution of legal disputes by doing arbitration

C:-Clash detection and improved interdisciplinary coordination

D:-Replacement of all on-site supervision and prefabrication of building components

Correct Answer:- Option-C

Question42:-Which of the following design strategies most enhances passive thermal comfort in sustainable building construction in hot-humid climates like Kerala?

A:-Thick external walls with low U-Value

B:-Water bodies as part of interior and exterior landscaping

C:-Cross ventilation using well-placed openings

D:-Fully sealed air-conditioned interiors

Correct Answer:- Option-C

Question43:-Which test is appropriate for assessing the work ability of freshly mixed concrete at site?

- A:-Slump Test
- B:-Compression Test
- C:-Ultrasonic pulse velocity test
- D:-Rebound hammer test

Correct Answer:- Option-A

Question44:-What is the fundamental structural principle of thin shell roofs?

- A:-They resist loads mainly by bending action
- B:-They act as flat slabs with uniform thickness
- C:-They transfer loads only through columns and beams
- D:-They resist loads by developing membrane stresses

Correct Answer:- Option-D

Question45:-Which provision is mandatory in the plastic hinge regions of columns to ensure ductile performance during earthquakes?

- A:-Use of higher grade concrete (M40 or above)
- B:-Increase of column cross-sectional area by 25%
- C:-provision of closely spaced special confining reinforcement
- D:-Reduction of longitudinal reinforcement to limit stiffness

Correct Answer:- Option-C

Question46:-With insufficient municipal water pressure, how should a multi-story building distribute its water?

- A:-Direct pressure system
- B:-Gravity distribution system
- C:-Hydro-pneumatic system
- D:-Axial-flow system

Correct Answer:- Option-C

Question47:-The minimum velocity in a sewer that ensures self-cleansing is called:

- A:-Non-scouring velocity
- B:-Critical velocity
- C:-Self-cleansing velocity
- D:-Peak velocity

Correct Answer:- Option-C

Question48:-What does the term "BOD" stand for in waste water treatment?

- A:-Biological Ozone Destruction
- B:-Biochemical Oxygen Demand
- C:-Basic Organic Dissolving

D:-Bacterial Oxygen Determination

Correct Answer:- Option-B

Question49:-One lumen per square meter is equivalent to:

A:-One candela

B:-One lux

C:-One foot-candle

D:-One watt

Correct Answer:- Option-B

Question50:-What is the British Thermal Unit (BTU)?

A:-A unit of power

B:-The amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit

C:-A unit of refrigeration capacity

D:-A measure of air flow

Correct Answer:- Option-B

Question51:-Which initial treatment process effectively removes oil and grease from refinery effluent?

A:-Ion exchange

B:-Solvent extraction

C:-Flotation

D:-Biological treatment

Correct Answer:- Option-C

Question52:-Creep in concrete is the phenomenon of:

A:-Sudden fracture under high stress

B:-Continuous deformation under a constant sustained load

C:-Rapid increase in strength over time

D:-Elastic rebound after removing a load

Correct Answer:- Option-B

Question53:-When a steel component is subjected to a shear force, what can be said about the resulting shear stress magnitude?

A:-Highest at the center of the cross-section

B:-Highest at the edges of the cross-section

C:-Uniform across the cross-section

D:-Zero at the center and maximum at the circumference

Correct Answer:- Option-A

Question54:-Which type of retaining wall relies on its own weight for stability against overturning and sliding?

- A:-Cantilever retaining wall
- B:-Buttressed retaining wall
- C:-Gravity retaining wall
- D:-Sheet pile retaining wall

Correct Answer:- Option-C

Question55:-How does pre-compression affect a concrete member's ability to resist shear forces?

- A:-It decreases the shear capacity
- B:-It has no effect on the shear capacity
- C:-It increases the shear resistance by reducing principal tensile stresses
- D:-It reduces the member's stiffness

Correct Answer:- Option-C

Question56:-Which principle ensures visual stability by arranging plants and structures around a central axis?

- A:-Unity
- B:-Symmetrical balance
- C:-Rhythm
- D:-Emphasis

Correct Answer:- Option-B

Question57:-In urban ecological planning, the term "green infrastructure" most closely refers to:

- A:-Underground sewer networks
- B:-Strategically planned network of natural and semi-natural areas
- C:-Green-painted utility poles
- D:-Highway landscaping

Correct Answer:- Option-B

Question58:-Bioswales are designed to:

- A:-Store water permanently
- B:-Eliminate vegetation from drainage systems
- C:-Convey, filter and infiltrate storm water on site
- D:-Replace all natural watercourses

Correct Answer:- Option-C

Question59:-A "Cultural landscape" recognised by UNESCO must show:

- A:-Natural beauty without human modification
- B:-High-rise modern buildings only
- C:-No influence of local history
- D:-The interaction of humans and the environment that carries heritage value

Correct Answer:- Option-D

Question60:-In designing recreational areas, "carrying capacity" refers to:

A:-Structural load of benches

B:-Maximum user levels an area can sustain without environmental degradation

C:-Car parking limits only

D:-Capacity of transport system

Correct Answer:- Option-B

Question61:-A key benefit of community engagement in landscape planning is:

A:-Increased sense of ownership and stewardship of public spaces

B:-Reduced project costs only

C:-Faster construction without feedback

D:-Avoiding cultural identity

Correct Answer:- Option-A

Question62:-Xeriscaping is most suitable for:

A:-Tropical rainforests

B:-Arid and semi-arid climates to reduce water use

C:-Monsoon climates with heavy rainfall

D:-Alpine regions

Correct Answer:- Option-B

Question63:-The term 'site synthesis' refers to:

A:-Combines aesthetic elements

B:-Combines physical, ecological and social factors

C:-Selecting plant species

D:-None of the above

Correct Answer:- Option-B

Question64:-The term 'sustainable development' was popularised by which report?

A:-Brundtland Report

B:-Kyoto Protocol

C:-Paris Agreement

D:-None of the above

Correct Answer:- Option-A

Question65:-The term 'landscape architecture' was first used by:

A:-Frederick Law Olmsted

B:-Andrew Jackson Downing

C:-Jens Jensen

D:-None of the above

Correct Answer:- Option-A

Question66:-Temperature can be calculated by the following various scales:

A:-Celsius

B:-Fahrenheit

C:-Kelvin

D:-All of the above

Correct Answer:- Option-D

Question67:-As a general rule for every 1000m higher you go the temperature will drop by

A:-3.5°C

B:-6.5°C

C:-9.5°C

D:-12.5°C

Correct Answer:- Option-B

Question68:-Which of the following statements are true with respect to climate responsive design of buildings?

A:-The orientation of the building affects solar gains and exposure to the prevailing winds

B:-The location of neighbouring trees and buildings affect the solar gains and wind patterns

C:-None of the above

D:-Both of the above

Correct Answer:- Option-D

Question69:-What are the steps to be taken by consultants to reduce the Urban Heat Island effect?

A:-Creating green roofs or eco-roof

B:-Increasing tree and vegetation cover

C:-Using cool or green pavements

D:-All of the above

Correct Answer:- Option-D

Question70:-A building envelope is often classified as being depending on its performance as

A:-Loose or tight

B:-Long term or short term

C:-Completely or Partially

D:-None of the above

Correct Answer:- Option-A

Question71:-The term 'Ecosystem' was coined by

A:-Edward Suez

B:-Sir Arthur Tansley

C:-Ernst Haeckel

D:-Eugene Odum

Correct Answer:- Option-B

Question72:-Doubling of rate of biochemical reactions with every 10°C rise in temperature is called

A:-Van't Hoffs rule

B:-Photoperiodism

C:-Cyclomorphosis

D:-Raoult's law

Correct Answer:- Option-A

Question73:-The disphotic zone of an ocean has a penetration of light up to

A:-50 m depth

B:-80 m to 200 m depth

C:-Below 200 m depth

D:-None of the above

Correct Answer:- Option-B

Question74:-Which are the category of projects excluded from complete EIA process?

A:-Category A projects

B:-Category B1 projects

C:-Category B2 projects

D:-None of the above

Correct Answer:- Option-C

Question75:-As per UG Green building council LEED certification the rating level points required for platinum is

A:-40+ points

B:-80+ points

C:-85+ points

D:-90+ points

Correct Answer:- Option-B

Question76:-The concept often referred to within the Circular Economy in Life Cycle Assessment is known as:

A:-Cradle to Grave

B:-Cradle to Cradle

C:-Cradle to Gate

D:-Gate to Gate

Correct Answer:- Option-B

Question77:-Which year the Ramsar Convention was established?

A:-1971

B:-1985

C:-1998

D:-2001

Correct Answer:- Option-A

Question78:-Name the convention for the protection of ozone layer.

A:-Kyoto Protocol

B:-Stockholm Convention

C:-Vienna Convention

D:-Ramsar Convention

Correct Answer:- Option-C

Question79:-Which of the following statements are true in the case of indoor Environmental Quality?

1. Inadequate ventilation is the single most common cause of pollutant build up.
2. Inefficient filtration is the second most important factor in the cause of indoor pollution.

A:-(1) only

B:-(2) only

C:-(1) and (2)

D:-None of the above

Correct Answer:- Option-C

Question80:-Out of the following which is the basic strategy to improve indoor air quality?

A:-Source control

B:-Improved ventilation

C:-Air cleaners/filtration

D:-All of the above

Correct Answer:- Option-D

Question81:-"Neighborhood design principles" were originally emphasized by which urban theorist?

A:-Ebenezer Howard

B:-Kevin Lynch

C:-Clarence Perry

D:-Jane Jacobs

Correct Answer:- Option-C

Question82:-The Garden City concept by Ebenezer Howard aimed to balance:

- A:-Housing and commercial growth
- B:-Urban and rural benefits
- C:-Public and private spaces
- D:-Heritage and modern architecture

Correct Answer:- Option-B

Question83:-Which of the following is an institutional mechanism for urban development in India?

- A:-NITI Aayog
- B:-Town and Country Planning Organization (TCPO)
- C:-Indian Statistical Institute (ISI)
- D:-Survey of India

Correct Answer:- Option-B

Question84:-In the context of slum upgradation programs in India, which scheme was launched in 2005?

- A:-JNNURM
- B:-PMAY
- C:-RAY
- D:-SJSRY

Correct Answer:- Option-A

Question85:-Which of the following is not a feature of Transit-Oriented Development (TOD)?

- A:-Mixed land-use development
- B:-Walkable neighbourhoods
- C:-Dependence on private automobiles
- D:-High-density near transit nodes

Correct Answer:- Option-C

Question86:-Which of the following is a key principle of "social justice in cities"?

- A:-Prioritizing high-income residential clusters
- B:-Ensuring equitable access to housing, services and opportunities
- C:-Expanding only commercial infrastructure
- D:-Encouraging gated communities for safety

Correct Answer:- Option-B

Question87:-In GIS-based urban planning, Kernel Density Estimation (KDE) is primarily used for:

- A:-Identifying slope gradients

B:-Mapping hotspots of activities/events

C:-Creating cadastral maps

D:-Analyzing soil fertility pattern

Correct Answer:- Option-B

Question88:-Which of the following is an example of a healthy city indicator by WHO?

A:-Urban GDP growth rate

B:-Air quality and walkability

C:-Number of skyscrapers

D:-Vehicle ownership levels

Correct Answer:- Option-B

Question89:-Which urban conservation principle emphasizes adaptive reuse of heritage structures rather than mere preservation?

A:-Athens Charter (1933)

B:-Venice Charter (1964)

C:-Burra Charter (1979)

D:-New Urban Agenda (2016)

Correct Answer:- Option-C

Question90:-"Defensible Space" theory by Oscar Newman primarily focuses on:

A:-Promoting mixed land use

B:-Enhancing urban aesthetics

C:-Reducing crime through environmental design

D:-Expanding highway infrastructure

Correct Answer:- Option-C

Question91:-Quantitative Research mainly uses which type of data?

A:-Numerical

B:-Narrative

C:-Descriptive

D:-Visual

Correct Answer:- Option-A

Question92:-Which qualitative method studies lived experiences of individuals?

A:-Ethnography

B:-Phenomenology

C:-Case Study

D:-Grounded Theory

Correct Answer:- Option-B

Question93:-Which test is used to compare means of two groups in quantitative research?

A:-Chi-square

B:-T-test

C:-ANOVA

D:-Regression

Correct Answer:- Option-B

Question94:-Participatory design primarily involves which group in research?

A:-Theorists

B:-Statisticians

C:-Managers

D:-Users

Correct Answer:- Option-D

Question95:-Case study Research is mostly considered as which approach?

A:-Qualitative

B:-Quantitative

C:-Experimental

D:-Statistical

Correct Answer:- Option-A

Question96:-Participatory design emphasizes _____.

A:-Collaboration

B:-Randomization

C:-Automation

D:-Isolation

Correct Answer:- Option-A

Question97:-The key feature of Experimental Research is _____.

A:-Manipulation of variables

B:-Natural Observation

C:-Interviews

D:-Document review

Correct Answer:- Option-A

Question98:-The group not exposed to treatment in experimental research is called _____.

A:-Experimental group

B:-Target group

C:-Random group

D:-Control group

Correct Answer:- Option-D

Question99:-Which is the most significant risk of using AI in urban governance?

A:-Increased HVAC energy use

B:-Bias and opacity in decision making algorithms affecting social equity

C:-Difficulty in scaling construction prefabrication

D:-Over-reliance on manual survey techniques

Correct Answer:- Option-B

Question100:-Why is Life Cycle Assessment (LCA) essential when evaluating advanced construction materials?

A:-As it assesses embodied carbon and overall environmental footprint across stages

B:-As it determines compressive and tensile strength for structural safety compliance

C:-As it provides a detailed cost-benefit ratio limited to initial procurement and installation

D:-As it mainly addresses surface finishes, aesthetics and user preference trends

Correct Answer:- Option-A