

National Testing Agency

Question Paper Name :	Sustainable Construction Materials and Techniques 21st Aug 2021 Shift 1
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Sustainable Construction Materials and Techniques

Group Number :	1
Group Id :	60348995
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Is this Group for Examiner? :	No

Sustainable Construction Materials and Techniques-1

Section Id :	603489153
Section Number :	1
Section type :	Online

Mandatory or Optional :	Mandatory
Number of Questions :	100
Number of Questions to be attempted :	100
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	603489264
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 6034897140 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Economic sustainability is

1. To spend money on things that don't benefit society
2. Use of renewable resources for things that society needs
3. Use of various strategies for employing existing resources optimally so that a responsible and beneficial balance can be achieved over the longer term
4. To buy things and know the problems of money that we have

Options :

60348926553. 1

60348926554. 2

60348926555. 3

60348926556. 4

Question Number : 2 Question Id : 6034897141 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following factors do NOT contribute to the growth of economic sustainability?

1. Technology
2. Poverty
3. Economics and Finance
4. None of the above

Options :

60348926557. 1

60348926558. 2

60348926559. 3

60348926560. 4

Question Number : 3 Question Id : 6034897142 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Why is economic sustainability used?

1. To produce carbon emissions
2. To define strategies that promise utilization of solid-economic resources like agriculture, industry etc to their maximum advantage
3. To continue with poor mining practices
4. To spend the energy we are not using

Options :

60348926561. 1

60348926562. 2

60348926563. 3

60348926564. 4

Question Number : 4 Question Id : 6034897143 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A sustainable model is

1. To spend money to have a better life
2. To contaminate the environment
3. The use of resources that are not currently used in the best way
4. To ensure fair distribution and efficient access of resources

Options :

60348926565. 1

60348926566. 2

60348926567. 3

60348926568. 4

Question Number : 5 Question Id : 6034897144 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How is the economic sustainability growth?

1. Is a economical growth that help the people to have more money.
2. This pillar ensure that our economic growth maintains a healthy balance with our ecosystem.
3. Is when the people pay to the governments to have more money for the community.
4. This growth is god because the people spent the money.

Options :

60348926569. 1

60348926570. 2

60348926571. 3

60348926572. 4

Question Number : 6 Question Id : 6034897145 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Why is important the economic?

1. Is important because help the pollution
2. Is important because economical theories describe the ways in which everything is produced and distributed
3. Because is a benefit produce by the environment
4. Help to control the pollution of cars emission

Options :

60348926573. 1

60348926574. 2

60348926575. 3

60348926576. 4

Sub-Section Number : 2

Sub-Section Id : 603489265

Question Shuffling Allowed : Yes

Question Number : 7 Question Id : 6034897146 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The economic productions possibilities efficient use of resources?

1. True
2. False

Options :

60348926577. 1

60348926578. 2

Sub-Section Number : 3

Sub-Section Id : 603489266

Question Shuffling Allowed : Yes

Question Number : 8 Question Id : 6034897147 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How should goods services be produced?

1. Technology
2. Human resources
3. Market economy
4. Both 1 and 2

Options :

60348926579. 1

60348926580. 2

60348926581. 3

60348926582. 4

Question Number : 9 Question Id : 6034897148 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How do you think you can achieve a balance between economic and environmental pillar?

1. By growing in nature and investing in resources
2. Making campaigns and not destroy the nature
3. Making good factories that investigate in the environment
4. White money and work

Options :

60348926583. 1

60348926584. 2

60348926585. 3

60348926586. 4

Question Number : 10 Question Id : 6034897149 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How is affecting the pillar of economy in the social pillar?

1. Low work
2. That are more people with money
3. That are more poverty
4. Low money

Options :

60348926587. 1

60348926588. 2

60348926589. 3

60348926590. 4

Question Number : 11 Question Id : 6034897150 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following could not be considered a major economic system?

1. Capitalism.
2. Communism.
3. Socialism
4. Physical quality of life index.

Options :

60348926591. 1

60348926592. 2

60348926593. 3

60348926594. 4

Question Number : 12 Question Id : 6034897151 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Economic development refers to

1. Economic growth.
2. Economic growth plus changes in output distribution and economic structure
3. Improvement in the well-being of the urban population.
4. Sustainable increases in Gross National Product.

Options :

60348926595. 1

60348926596. 2

60348926597. 3

60348926598. 4

Question Number : 13 Question Id : 6034897152 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

As economic development proceeds, income inequality tends to follow a(n) _____ curve.

1. Convex
2. Inverted U-shaped
3. L-shaped
4. S-Shaped

Options :

60348926599. 1

60348926600. 2

60348926601. 3

60348926602. 4

Question Number : 14 Question Id : 6034897153 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

According to Lewis's model, the dual economy grows only when

1. The modern sector increases its output share relative to the traditional sector.
2. Agricultural sector uses modern equipment
3. Agricultural sector hires labor economically
4. Modern manufacturing sector is labor-intensive.

Options :

60348926603. 1

60348926604. 2

60348926605. 3

60348926606. 4

Question Number : 15 Question Id : 6034897154 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Dual economies are countries

1. With double capital and labor
2. With a modern manufacturing sector as well as traditional agriculture sector.
3. That specialize in labor-intensive products more than capital-intensive products.
4. With foreign-owned and domestically-owned capital.

Options :

60348926607. 1

60348926608. 2

60348926609. 3

60348926610. 4

Question Number : 16 Question Id : 6034897155 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following was not a classical economist?

1. Adam Smith.
2. Thomas R. Malthus.
3. John Stuart Mill.
4. John Maynard Keynes.

Options :

60348926611. 1

60348926612. 2

60348926613. 3

60348926614. 4

Question Number : 17 Question Id : 6034897156 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The essential difference between capitalism and socialism is that

1. Capitalism exploits the worker and socialism exploits the property owner.
2. Capitalism relies on the market to make economic decisions and socialism uses central planning.
3. Capitalism grows through rent seeking and socialism grows through government direction.
4. Capitalism relies on consumer satisfaction to dictate choices and socialism relies on producer satisfaction.

Options :

60348926615. 1

60348926616. 2

60348926617. 3

60348926618. 4

Question Number : 18 Question Id : 6034897157 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A production function

1. Shows the dependency output of the working population.
2. Depicts the relationship between input and output.
3. States the relationship between products and income distribution.
4. Is a function of natural resources in a country.

Options :

60348926619. 1

60348926620. 2

60348926621. 3

60348926622. 4

Question Number : 19 Question Id : 6034897158 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Many environmental resources are public goods, which are characterized by

1. Rivalry and exclusion in consumption.
2. Non rivalry and non-exclusion in consumption.
3. Rivalry but non exclusion in production.
4. Non rivalry but exclusion in usage.

Options :

60348926623. 1

60348926624. 2

60348926625. 3

60348926626. 4

Question Number : 20 Question Id : 6034897159 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Economic growth can be measured by:

1. The CPI
2. The CBI
3. GDP
4. MPC

Options :

60348926627. 1

60348926628. 2

60348926629. 3

60348926630. 4

Question Number : 21 Question Id : 6034897160 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The concept of economic growth is:

1. Identical with the concept of economic development
2. Narrower than the concept of economic development
3. Wider as compared to that of economic development
4. Unrelated to the concept of economic development

Options :

60348926631. 1

60348926632. 2

60348926633. 3

60348926634. 4

Question Number : 22 Question Id : 6034897161 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The rate of growth of an economy mainly depends upon:

1. The rate of growth of the labour force
2. The proportion of national income saved and invested
3. The rate of technological improvements
4. All of the above

Options :

60348926635. 1

60348926636. 2

60348926637. 3

60348926638. 4

Question Number : 23 Question Id : 6034897162 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Marx refers to the concept of organic composition of capital. Which of the following ratios stands for this capital? Constant capital = C; Variable capital = V; Surplus value = S

1. $C/(V+S)$
2. C/V
3. $C/(C+V)$
4. $(C+V)/V$

Options :

60348926639. 1

60348926640. 2

60348926641. 3

60348926642. 4

Question Number : 24 Question Id : 6034897163 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Marx had given a concept of unemployment in the context of the capitalist system which keeps wages down or prevents wages from rising even as demand for labour increases. What is that concept called?

1. Surplus labour
2. Reserve army of labour
3. Under employment
4. Disguised unemployment

Options :

60348926643. 1

60348926644. 2

60348926645. 3

60348926646. 4

Question Number : 25 Question Id : 6034897164 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Economic development is characterized by

1. Structural change in the economy
2. Change in the occupational structure
3. Both a and b
4. None of the above

Options :

60348926647. 1

60348926648. 2

60348926649. 3

60348926650. 4

Question Number : 26 Question Id : 6034897165 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What does LEED stand for?

1. Leadership in Energy Efficiency Design
2. Leadership in Energy and Environmental Design
3. Leadership in Energy Emissions Design
4. Leadership in Energy Efficiency Development

Options :

60348926651. 1

60348926652. 2

60348926653. 3

60348926654. 4

Question Number : 27 Question Id : 6034897166 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a local voluntary programme benchmarking building performance?

1. Building Environmental Assessment Method (BEAM).
2. Leadership in Energy and Environmental Design (LEED).
3. Hong Kong Energy Efficiency Registration Scheme for Buildings(HKEERSB)
4. Green Rating for Integrated Habitat Assessment(GRIHA)

Options :

60348926655. 1

60348926656. 2

60348926657. 3

60348926658. 4

Question Number : 28 Question Id : 6034897167 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A legally binding agreement between 2 or more nation states relating to environment is:

1. BEA
2. BA
3. MA
4. MEA

Options :

60348926659. 1

60348926660. 2

60348926661. 3

60348926662. 4

Question Number : 29 Question Id : 6034897168 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

___ is a programme run by UN related to sustainable development.

1. GHG indicator
2. Agenda 21
3. IPCC
4. UNEP

Options :

60348926663. 1

60348926664. 2

60348926665. 3

60348926666. 4

Question Number : 30 Question Id : 6034897169 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

For a gold LEED certification, how many points are required?

1. 40-49
2. 60-79
3. 50-59
4. 80-110

Options :

60348926667. 1

60348926668. 2

60348926669. 3

60348926670. 4

Question Number : 31 Question Id : 6034897170 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the below green building in India has received a platinum LEED certification?

1. Dabur India, Chandigarh
2. Logix Cyber Park, UP
3. Unitech Commercial Tower, Chandigarh
4. Suzlon One Earth, Pune

Options :

60348926671. 1

60348926672. 2

60348926673. 3

60348926674. 4

Question Number : 32 Question Id : 6034897171 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What are the features of Green building?

1. Sustainable site design
2. Energy efficiency
3. Water efficiency
4. All the above

Options :

60348926675. 1

60348926676. 2

60348926677. 3

60348926678. 4

Question Number : 33 Question Id : 6034897172 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not the concept of Green building.

1. Environmentally sustainable building
2. Optimal use of renewable resources
3. Cost higher than traditional building
4. Minimise environmental impacts

Options :

60348926679. 1

60348926680. 2

60348926681. 3

60348926682. 4

Question Number : 34 Question Id : 6034897173 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A _____ building material can be made into new products repeatedly.

1. Recyclable
2. Reusable
3. Repairable
4. Green material

Options :

60348926683. 1

60348926684. 2

60348926685. 3

60348926686. 4

Question Number : 35 Question Id : 6034897174 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How can you make a building energy efficient?

1. Plant Shady Landscaping
2. Improve the Insulation in the building
3. Use Compact Fluorescent Bulbs
4. All the above

Options :

60348926687. 1

60348926688. 2

60348926689. 3

60348926690. 4

Question Number : 36 Question Id : 6034897175 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Pick an option, which is not a Green building rating.

1. Gold
2. Platinum
3. Silver
4. Bronze

Options :

60348926691. 1

60348926692. 2

60348926693. 3

60348926694. 4

Question Number : 37 Question Id : 6034897176 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is a green building strategy?

1. Use of earth air tunnels, Geothermal, Chilled Beams
2. Use different coloured bins for collecting different categories of waste
3. Provide necessary treatment of water for achieving the desired concentration of effluents
4. All the above

Options :

60348926695. 1

60348926696. 2

60348926697. 3

60348926698. 4

Question Number : 38 Question Id : 6034897177 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT a green building strategy?

1. Enhance outdoor lighting system efficiency and use renewable energy system
2. Utilization of fly ash in building structure
3. Use only low VOC paints in the interior of the building
4. None of these

Options :

60348926699. 1

60348926700. 2

60348926701. 3

60348926702. 4

Question Number : 39 Question Id : 6034897178 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What are the elements of smart energy building?

1. Increased daylight entrance
2. On-site electricity generation
3. DC grid for DC loads
4. All the above

Options :

60348926703. 1

60348926704. 2

60348926705. 3

60348926706. 4

Question Number : 40 Question Id : 6034897179 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

High performance building includes

1. Fire Alarm Control Systems
2. Integrated Building Automation Systems
3. Computerised Integrated Systems
4. All the above

Options :

60348926707. 1

60348926708. 2

60348926709. 3

60348926710. 4

Question Number : 41 Question Id : 6034897180 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Green building practices include _____.

1. Only energy efficiency
2. Only recycled materials
3. Both energy efficiency and recycled materials
4. None of the above

Options :

60348926711. 1

60348926712. 2

60348926713. 3

60348926714. 4

Question Number : 42 Question Id : 6034897181 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A high-performance building is _____.

1. A green building
2. Energy efficient
3. A sustainable building
4. All the above

Options :

60348926715. 1

60348926716. 2

60348926717. 3

60348926718. 4

Question Number : 43 Question Id : 6034897182 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Sustainable architecture includes _____ in its planning.

1. Energy efficiency
2. Only new wood and steel materials
3. Green building practices
4. All the above

Options :

60348926719. 1

60348926720. 2

60348926721. 3

60348926722. 4

Question Number : 44 Question Id : 6034897183 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Sustainable buildings will help reduce _____.

1. The 15 trillion gallons of water consumed by U.S. buildings each year
2. The 3 billion tons of raw material used each year in construction
3. 30 percent of all greenhouse gas emissions produced by buildings each year in the United States
4. All the above

Options :

60348926723. 1

60348926724. 2

60348926725. 3

60348926726. 4

Question Number : 45 Question Id : 6034897184 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A building that is structurally sound is built _____.

1. To be a safe building
2. To be seismically safe
3. To codes as prescribed by law
4. All of the above

Options :

60348926727. 1

60348926728. 2

60348926729. 3

60348926730. 4

Question Number : 46 Question Id : 6034897185 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A sustainable building is integrated into the natural and _____ setting of its location.

1. Cultural
2. Technological
3. Political
4. Biological

Options :

60348926731. 1

60348926732. 2

60348926733. 3

60348926734. 4

Question Number : 47 Question Id : 6034897186 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Life Cycle Costing (LCC) is a technique to establish the _____ cost of ownership.

1. Initial
2. Partial
3. Total
4. None of the above

Options :

60348926735. 1

60348926736. 2

60348926737. 3

60348926738. 4

Question Number : 48 Question Id : 6034897187 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not considered a renewable energy source?

1. Geothermal
2. Solar
3. Coal
4. None of the above

Options :

60348926739. 1

60348926740. 2

60348926741. 3

60348926742. 4

Question Number : 49 Question Id : 6034897188 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Renewable energy is _____ and does not produce greenhouse gases during operation.

1. Scarce
2. Plenty
3. Unavailable
4. None of the above

Options :

60348926743. 1

60348926744. 2

60348926745. 3

60348926746. 4

Question Number : 50 Question Id : 6034897189 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Renewable energy is a solution for _____ energy demand and _____oil supply.

1. Diminishing; growing
2. Growing; diminishing
3. Growing; stable
4. None of the above

Options :

60348926747. 1

60348926748. 2

60348926749. 3

60348926750. 4

Question Number : 51 Question Id : 6034897190 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a rapidly renewable building material?

1. Bamboo
2. Cork
3. Timber
4. None of the above

Options :

60348926751. 1

60348926752. 2

60348926753. 3

60348926754. 4

Question Number : 52 Question Id : 6034897191 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Using recycled-content building materials can _____ waste as well as pollution and energy associated with the mining, harvesting of raw materials.

1. Increase
2. Create
3. Reduce
4. None of the above

Options :

60348926755. 1

60348926756. 2

60348926757. 3

60348926758. 4

Question Number : 53 Question Id : 6034897192 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statements is true?

1. Using non-renewable materials can reduce the environmental impacts.
2. Using new building materials can reduce waste disposal.
3. Using recycled-content materials can enable the reuse of waste and thus reduce waste disposal.
4. None of the above

Options :

60348926759. 1

60348926760. 2

60348926761. 3

60348926762. 4

Question Number : 54 Question Id : 6034897193 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Salvaging of bricks and stones from an old building for use in a new building is an example of what type of practice?

1. Reusing
2. Reducing
3. Recycling
4. None of the above

Options :

60348926763. 1

60348926764. 2

60348926765. 3

60348926766. 4

Question Number : 55 Question Id : 6034897194 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Using recycled-content building materials will _____ resource depletion, energy use in raw material extraction, and waste.

1. Increase
2. Reduce
3. Encourage
4. None of the above

Options :

60348926767. 1

60348926768. 2

60348926769. 3

60348926770. 4

Question Number : 56 Question Id : 6034897195 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Rapidly renewable materials regenerate _____ than/as their market demand.

1. Faster
2. Slower
3. At the same speed
4. None of the above

Options :

60348926771. 1

60348926772. 2

60348926773. 3

60348926774. 4

Question Number : 57 Question Id : 6034897196 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A _____ building material can be made into new products again and again.

1. Recyclable
2. Reusable
3. Repairable
4. None of the above

Options :

60348926775. 1

60348926776. 2

60348926777. 3

60348926778. 4

Question Number : 58 Question Id : 6034897197 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When does Sustainable Construction take place?

1. During the design phase of a building's development
2. During the construction phase of a building's development
3. After construction of the building
4. None of the above

Options :

60348926779. 1

60348926780. 2

60348926781. 3

60348926782. 4

Question Number : 59 Question Id : 6034897198 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Sustainable construction considers the _____ and _____ impacts of construction activities on the surrounding neighborhood.

1. Operational; economica
2. Environmental; operational
3. Environmental; social
4. None of the above

Options :

60348926783. 1

60348926784. 2

60348926785. 3

60348926786. 4

Question Number : 60 Question Id : 6034897199 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What environmental aspects are monitored to identify and mitigate environmental nuisances during construction?

- 1. Water and waste
- 2. Air and noise
- 3. All of the above
- 4. None of the above

Options :

60348926787. 1

60348926788. 2

60348926789. 3

60348926790. 4

Question Number : 61 Question Id : 6034897200 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Substitution of traditional timber with metal formwork can save timberconsumption by up to ____ percent

- 1. 20
- 2. 30
- 3. 501
- 4. None of the above

Options :

60348926791. 1

60348926792. 2

60348926793. 3

60348926794. 4

Question Number : 62 Question Id : 6034897201 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is a sustainably maintained building?

1. A building which uses innovative technology in their design.
2. A building which requires little energy and attention for up keep and operation.
3. A building which requires intensive maintenance and repairs for upkeep and operation.
4. None of the above

Options :

60348926795. 1

60348926796. 2

60348926797. 3

60348926798. 4

Question Number : 63 Question Id : 6034897202 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When does Sustainable Maintenance take place?

1. During the design phase of a building's development
2. During the construction phase of a building' s development
3. After the construction of a building
4. None of the above

Options :

60348926799. 1

60348926800. 2

60348926801. 3

60348926802. 4

Question Number : 64 Question Id : 6034897203 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Carbon footprint can be measured by

1. Carbon dating
2. Instruments
3. Carbon accounting
4. Formula

Options :

60348926803. 1

60348926804. 2

60348926805. 3

60348926806. 4

Question Number : 65 Question Id : 6034897204 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How many types of ecological pyramids are there?

1. 3
2. 2
3. 4
4. 5

Options :

60348926807. 1

60348926808. 2

60348926809. 3

60348926810. 4

Question Number : 66 Question Id : 6034897205 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

_____ is a programme run by UN related to sustainable development.

1. GHG indicator
2. Agenda 21
3. IPCC
4. UNEP

Options :

60348926811. 1

60348926812. 2

60348926813. 3

60348926814. 4

Question Number : 67 Question Id : 6034897206 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

_____ is the conventional source for hydel power.

1. Tidal wave
2. Currents
3. Water
4. Ripples

Options :

60348926815. 1

60348926816. 2

60348926817. 3

60348926818. 4

Question Number : 68 Question Id : 6034897207 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The first academic publication about ecological footprints was in:

1. 1992
2. 1990
3. 1993
4. 1994

Options :

60348926819. 1

60348926820. 2

60348926821. 3

60348926822. 4

Question Number : 69 Question Id : 6034897208 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the below is a global scale environmental issue?

1. Eutrophication
2. Regional ozone
3. Climate change
4. Pollution

Options :

60348926823. 1

60348926824. 2

60348926825. 3

60348926826. 4

Question Number : 70 Question Id : 6034897209 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Carbon can be stored in organic matter in the form of:

1. Biomass
2. Biofuel
3. Bioenergy
4. Bio carbon

Options :

60348926827. 1

60348926828. 2

60348926829. 3

60348926830. 4

Question Number : 71 Question Id : 6034897210 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A well-design building envelope _____ the entry of contaminated air and moisture

1. Allows
2. Increases
3. Eliminates
4. None of the above

Options :

60348926831. 1

60348926832. 2

60348926833. 3

60348926834. 4

Question Number : 72 Question Id : 6034897211 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The resistance of the soil with depth is measured by means of a tool known as the _____

1. Seismometer
2. Potentiometer
3. Penetrometer
4. Ammeter

Options :

60348926835. 1

60348926836. 2

60348926837. 3

60348926838. 4

Question Number : 73 Question Id : 6034897212 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Identify the given diagram below.



1. Post-hole auger
2. Screw auger
3. Shell auger
4. Rod

Options :

60348926839. 1

60348926840. 2

60348926841. 3

60348926842. 4

Question Number : 74 Question Id : 6034897213 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In absorption test on brick, how many hours it has to be soaked in cold water.

1. 19 hours
2. 5 hours
3. 6 hours
4. 24 hours

Options :

60348926843. 1

60348926844. 2

60348926845. 3

60348926846. 4

Question Number : 75 Question Id : 6034897214 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the loading rate used in compressive strength test?

1. 14 N/mm² per hour
2. 14 N/mm² per minute
3. 20 N/mm² per minute
4. 40 N/mm² per hour

Options :

60348926847. 1

60348926848. 2

60348926849. 3

60348926850. 4

Question Number : 76 Question Id : 6034897215 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How is the hardness of brick tested?

1. Using finger nail
2. Using hardness apparatus
3. Using hammer
4. Using chisel

Options :

60348926851. 1

60348926852. 2

60348926853. 3

60348926854. 4

Question Number : 77 Question Id : 6034897216 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the maximum permissible tolerance for length and width respectively?

1. $\pm 3\text{mm}$ and $\pm 6\text{mm}$
2. $\pm 6\text{mm}$ and $\pm 3\text{mm}$
3. $\pm 3\text{cm}$ and $\pm 6\text{cm}$
4. $\pm 6\text{cm}$ and $\pm 3\text{cm}$

Options :

60348926855. 1

60348926856. 2

60348926857. 3

60348926858. 4

Question Number : 78 Question Id : 6034897217 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What should be observed ideally when two bricks are struck together?

1. Dull sound
2. Sides shatter
3. Clear ringing sound
4. Brick breaks

Options :

60348926859. 1

60348926860. 2

60348926861. 3

60348926862. 4

Sub-Section Number : 4

Sub-Section Id : 603489267

Question Shuffling Allowed : Yes

Question Number : 79 Question Id : 6034897218 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

End of a brick is placed in a glass dish containing water and it is tested for efflorescence after it is absorbed or evaporated.

1. True
2. False

Options :

60348926863. 1

60348926864. 2

Sub-Section Number : 5

Sub-Section Id : 603489268

Question Shuffling Allowed : Yes

Question Number : 80 Question Id : 6034897219 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When observed efflorescence is more than 10% but less than 50% of the exposed area, it is:

1. Moderate efflorescence
2. Serious efflorescence
3. Heavy efflorescence
4. Light efflorescence

Options :

60348926865. 1

60348926866. 2

60348926867. 3

60348926868. 4

Question Number : 81 Question Id : 6034897220 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How is the structure of brick tested?

1. Powdered and tested
2. Immersed in water and dried.
3. Rubbed against another brick
4. Broken and examined

Options :

60348926869. 1

60348926870. 2

60348926871. 3

60348926872. 4

Question Number : 82 Question Id : 6034897221 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Creep test is carried out in accordance with:

1. IS 1528
2. IS 5688
3. IS 3495
4. IS 4568

Options :

60348926873. 1

60348926874. 2

60348926875. 3

60348926876. 4

Question Number : 83 Question Id : 6034897222 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What does M_1 indicate in the formula:

$$\% \text{ water absorption} = \frac{M_2 - M_1}{M_2} \times 100$$

1. Oven dried mass of brick
2. Oven dried and cooled mass of brick
3. Mass of water absorbed brick
4. Mass of water absorbed and dried brick

Options :

60348926877. 1

60348926878. 2

60348926879. 3

60348926880. 4

Question Number : 84 Question Id : 6034897223 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Fine Aggregates should pass through which IS sieve?

1. 2.35mm
2. 45μ
3. 4.75mm
4. 75μ

Options :

60348926881. 1

60348926882. 2

60348926883. 3

60348926884. 4

Question Number : 85 Question Id : 6034897224 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How many types of fine aggregates are there based on source?

1. 3
2. 2
3. 4
4. 6

Options :

60348926885. 1

60348926886. 2

60348926887. 3

60348926888. 4

Question Number : 86 Question Id : 6034897225 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the fineness modulus value of a fine sand?

1. <2.2
2. 2.2-2.6
3. <1
4. 1-2

Options :

60348926889. 1

60348926890. 2

60348926891. 3

60348926892. 4

Question Number : 87 Question Id : 6034897226 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

M-Sand has _____ type of particle shape.

1. Flaky
2. Round
3. Angular
4. Cubical

Options :

60348926893. 1

60348926894. 2

60348926895. 3

60348926896. 4

Question Number : 88 Question Id : 6034897227 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the below can be used as fine aggregates?

1. Lime
2. Splinters
3. Surkhi
4. Rice Husk

Options :

60348926897. 1

60348926898. 2

60348926899. 3

60348926900. 4

Question Number : 89 Question Id : 6034897228 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The specific gravity for sand is:

1. 2.6
2. 2.65
3. 2.8
4. 2.75

Options :

60348926901. 1

60348926902. 2

60348926903. 3

60348926904. 4

Question Number : 90 Question Id : 6034897229 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In the ratio 1:4:8, which number indicates the quantity of fine aggregates?

1. 1
2. 4
3. 8
4. None of the above

Options :

60348926905. 1

60348926906. 2

60348926907. 3

60348926908. 4

Question Number : 91 Question Id : 6034897230 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

PGBS stands for:

1. Perfectly Graded Blast furnace Slag
2. Pre-Grinded Blast furnace Slag
3. Poly Granule Blast furnace Slag
4. Processed Granulated Blast furnace Slag

Options :

60348926909. 1

60348926910. 2

60348926911. 3

60348926912. 4

Question Number : 92 Question Id : 6034897231 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is a reusable building material from demolished buildings when constructing new buildings?

- 1. Bricks
- 2. Paint
- 3. Carpet
- 4. Tile

Options :

60348926913. 1

60348926914. 2

60348926915. 3

60348926916. 4

Question Number : 93 Question Id : 6034897232 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

According to IS: 2386 part-IV, each layer is tamped _____ times in crushing test

- 1. 20
- 2. 25
- 3. 10
- 4. 30

Options :

60348926917. 1

60348926918. 2

60348926919. 3

60348926920. 4

Question Number : 94 Question Id : 6034897233 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is sustainable development?

1. The development that meets the needs of the present without compromising the ability of future generations to meet their own needs.
2. To conserve natural resources and to develop alternate sources of power while reducing pollution and harm to the environment.
3. It is the practice of developing land and construction projects in a manner that reduces their impact on the environment by allowing them to create energy efficient models of self-sufficiency.
4. All of the above

Options :

60348926921. 1

60348926922. 2

60348926923. 3

60348926924. 4

Question Number : 95 Question Id : 6034897234 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is correct, if we only achieve two out of three pillars of Sustainable Development?

1. Social + Economic Sustainability = Equitable
2. Social + Environmental Sustainability = Bearable
3. Economic + Environmental Sustainability = Viable
4. All of the above

Options :

60348926925. 1

60348926926. 2

60348926927. 3

60348926928. 4

Question Number : 96 Question Id : 6034897235 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Consider the following statement (s) related to the Sustainability.

- I. It refers to a process or state that can be maintained indefinitely.
- II. Natural resources must use in ways that do not create ecological debts by over exploiting the carrying and productive capacity of the earth.
- III. A minimum necessary condition for sustainability is the maintenance of the total natural capital stock at or above the current level.

- 1. Only I
- 2. Only II
- 3. Only II & III
- 4. I, II & III

Options :

- 60348926929. 1
- 60348926930. 2
- 60348926931. 3
- 60348926932. 4

Question Number : 97 Question Id : 6034897236 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

When was the term 'Sustainable Development' came into existence?

- 1. 1987
- 2. 1980
- 3. 1978
- 4. 1992

Options :

- 60348926933. 1
- 60348926934. 2
- 60348926935. 3
- 60348926936. 4

Question Number : 98 Question Id : 6034897237 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The United Nations Commission on Sustainable Development (CSD) was established by the UN General Assembly in December-----.

1. 1992
2. 1993
3. 1994
4. 1995

Options :

60348926937. 1

60348926938. 2

60348926939. 3

60348926940. 4

Question Number : 99 Question Id : 6034897238 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following UN commission is responsible for reviewing progress in the implementation of Agenda 21 and the Rio Declaration on Environment and Development?

1. United Nation Disarmament Commission
2. United Nations Statistical Commission
3. United Nations Commission on Sustainable Development (CSD)
4. United Nations Commission on Human Rights

Options :

60348926941. 1

60348926942. 2

60348926943. 3

60348926944. 4

Question Number : 100 Question Id : 6034897239 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is/are not an objective (s) of sustainable development?

1. Continue to implement the family planning program
2. Maintain a dynamic balance of arable land (not less than 123 million hectares) and implement an agricultural development strategy
3. Maintain a dynamic balance of water resources by reducing water consumption for every unit of gross development product growth and agricultural value added
4. To bring about a gradual and sometime catastrophic transformation of environment

Options :

60348926945. 1

60348926946. 2

60348926947. 3

60348926948. 4