

# National Testing Agency

**Question Paper Name:** 5234Civil Infrastructure for Smart City Development30th June 2019 Shift 2  
**Subject Name:** Civil Infrastructure for Smart City Development  
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**Display Marks:** Yes

## Civil Infrastructure for Smart City Development

**Group Number :** 1  
**Group Id :** 489994179  
**Group Maximum Duration :** 0  
**Group Minimum Duration :** 120  
**Revisit allowed for view? :** No  
**Revisit allowed for edit? :** No  
**Break time:** 0  
**Group Marks:** 100

## Civil Infrastructure for Smart City Development

**Section Id :** 489994235  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional:** Mandatory  
**Number of Questions:** 100  
**Number of Questions to be attempted:** 100  
**Section Marks:** 100  
**Display Number Panel:** Yes  
**Group All Questions:** No

**Sub-Section Number:** 1  
**Sub-Section Id:** 489994252  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

IoT promotes the creation of IoT terminal industry \_\_\_\_\_

- A. Devices
- B. Network
- C. Clusters
- D. Things

**Options :**

- 1. 1
- 2. 2
- 3. 3

4. 4

**Question Number : 2 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which approach is used in this architecture?

- A. Top down approach
- B. Bottom up approach
- C. Top down and Bottom Up
- D. Neither Top down nor bottom up

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 3 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Who will use their own IoT business models?

- A. PaaS
- B. SaaS
- C. IaaS
- D. Service provider

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 4 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The core element is operated by \_\_\_\_\_

- A. PaaS
- B. IoT service Provider
- C. SaaS
- D. IaaS

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 5 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The core element of architecture of smart city is \_\_\_\_\_

- A. Mobile Unified Service
- B. Urban Application Platform
- C. Management center
- D. Integrated Information Provider

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 6 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

An IoT \_\_\_\_\_ centre is envisaged as an important part of the generic IoT platform to unify the organization.

- A. Individual Information
- B. Individual Integration
- C. Integrated Information
- D. Individual and Integrated Information

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 7 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The autonomous \_\_\_\_\_ based IoT platforms are used for internal management of the corresponding enterprise.

- A. eGovernment related
- B. Enterprise-based
- C. Company based
- D. Business oriented platform

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 8 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

ITS stands for \_\_\_\_\_

- A. Internet Travel Services
- B. Internet Transportation Security
- C. Intelligent Transportation Security
- D. Intelligent Transportation Services

Options :

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

**Question Number : 9 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The \_\_\_\_\_ may become an important facilitator and stimulate for the modern economy.

- A. eGovernment related
- B. Enterprise-based
- C. Company based
- D. Business oriented platform

**Options :**

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

**Question Number : 10 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In order to improve their competitiveness and services assurance, the \_\_\_\_\_ require independently funded IoT projects.

- A. eGovernment related
- B. Enterprise-based
- C. Company based
- D. Business oriented platform

**Options :**

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

**Question Number : 11 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In order to promote \_\_\_\_\_ the government should employ more management.

- A. eGovernment related
- B. Enterprise-based
- C. Company based
- D. Business oriented platform

**Options :**

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

**Question Number : 12 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The IoT platforms are mainly divided into how many types

- A. 3 types
- B. 5 types
- C. 4 types
- D. 2 types

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 13 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A \_\_\_\_ is a set of activities, which are networked in an order and aimed towards achieving the goals of a project.

- A. Project
- B. Process
- C. Project management
- D. Project cycle

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 14 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Developing a technology is an example of

- A. Process
- B. Project
- C. Scope
- D. Objective

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 15 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Following are the phases of Project Management Life Cycle. Arrange them in correct order

1. Design, 2. Marketing, 3. Analysis and evaluation, 4. Inspection, Testing and Delivery

- A. 3-2-1-4
- B. 1-2-3-4
- C. 2-3-1-4
- D. 4-3-2-1

**Options :**

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

**Question Number : 16 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Design phase consist of

- A. Input received
- B. Output receive
- C. Both (A) and (B)
- D. Inputs transmitted

**Options :**

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

**Question Number : 17 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Five dimensions that must be managed on a project

- A. Constraint, Quality, Cost, Schedule, Staff
- B. Features, Quality, Cost, Schedule, Staff
- C. Features, priority, Cost, Schedule, Staff
- D. Features, Quality, Cost, Schedule, customer

**Options :**

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

**Question Number : 18 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Resource requirement in project becomes constant while the project is in its \_\_\_\_\_Progress Stage.

- A. 40 to 55%
- B. 55 to 70%
- C. 70 to 80%
- D. 80 to 95%

**Options :**

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

**Question Number : 19 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The probability of completing the project can be estimated based upon the \_\_\_\_\_. A.

- Uniform distribution curve
- B. Normal distribution curve.
- C. U-shaped distribution curve
- D. V-shaped distribution curve.

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 20 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In the initial stage of the project the probability of completing the project is \_\_\_\_\_.

- A. Zero
- B. High
- C. Low
- D. Very high

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 21 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The entire process of a project may be considered to be made up on number of sub process placed in different stage called the

- A. Technical key resources
- B. Work key structure
- C. Work Breakdown Structure (WBS).
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 22 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Tool used for comparison of the proposed project to complete projects of a similar nature whose costs are known.

- A. Algorithmic model
- B. Expert judgment
- C. Top down
- D. Analogy

Options :

- 1. 1
- 2. 2

3. 3

4. 4

**Question Number : 23 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Each component of the software product is separately estimated and the results aggregated to produce an estimate for the overall job.

- A. Algorithmic model
- B. Expert judgment
- C. Bottom-up
- D. Top down

**Options :**

1. 1

2. 2

3. 3

4. 4

**Question Number : 24 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Following are the characteristics of Project Mindset.

- A. Time, Responsiveness, Information sharing, Processes, structured planning
- B. Time, Project management, Information sharing, Processes, structured planning
- C. Time, Responsiveness, Information sharing, capability, structured planning
- D. Time, Responsiveness, Information sharing, Processes, project planning

**Options :**

1. 1

2. 2

3. 3

4. 4

**Question Number : 25 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

“Devising and maintaining a workable scheme to accomplish the business need” is

- A. Initiating process
- B. Planning process
- C. Executing process
- D. Controlling process

**Options :**

1. 1

2. 2

3. 3

4. 4

**Question Number : 26 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**



Controlling the changes in the project may affect

- A. The progress of the project
- B. Total cost
- C. Project quality
- D. Time

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 27 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Term used to express how it is easy to reach at particular place is

- A. durability
- B. refer ability
- C. accessibility
- D. consistency

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 28 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Who is responsible for the construction and maintenance of the National Highways?

- A. State Government
- B. Central Government
- C. Federal Government
- d) National Government

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 29 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Bridges and tunnels connect the Multilane National \_\_\_\_\_

- A. Highways
- B. Railways
- C. Airways
- D. Waterways

Options :

- 1. 1
- 2. 2
- 3. 3

4. 4

**Question Number : 30 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

As the magnitude of natural disasters increases their frequency of occurrence \_\_\_\_\_

- A. increases
- B. decreases
- C. remains the same
- D. cannot be predicted

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 31 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The term Tsunami is coined from?

- A. Chinese term
- B. Indian term
- C. German term
- D. Japanese term

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 32 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

National Institute of Disaster management is located at?

- A. Pune
- B. Midnapur
- C. New Delhi
- D. Kolkotta

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 33 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

International Tsunami Information Centre is in?

- A. Honolulu
- B. Goa
- C. Jakartha
- D. Pondicherry

**Options :**

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

**Question Number : 34 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

When a river's water level reaches 10 metres, this means that:

- A. the water level is 10 metres above an arbitrary 'zero' level
- B. the water level is 10 metres above mean sea level
- C. the water level is 10 metres above mean sea level or an arbitrary 'zero' level
- D. it will flood.

**Options :**

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

**Question Number : 35 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

How many feet of fast-moving flood water can sweep a vehicle away?

- A. 1 feet
- B. 2 feet
- C. 3 feet
- D. 4 feet

**Options :**

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

**Question Number : 36 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which process improves efficiency of solid waste management?

- A. Disposal
- B. Collection
- C. Compositing
- D. Processing

**Options :**

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

**Question Number : 37 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Man-made radiations include:

- A. Nuclear weapons
- B. X-rays
- C. Nuclear power plants and cancer treatment
- D. All of above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 38 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Chlorophenols are toxic to bacteria and

- A. Fish
- B. Birds
- C. Tigers
- D. Insects

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 39 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A radiation dose can cause:

- A. Nausea and vomiting
- B. Heart disease
- C. Arthritis
- D. All of above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 40 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is concentration of carbon dioxide in atmosphere?

- A. 650ppm
- B. 350ppm
- C. 450ppm
- D. 950ppm

Options :

- 1. 1

- 2. 2
- 3. 3
- 4. 4

**Question Number : 41 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What damages will be caused by house paints?

- A. Water pollution
- B. Acid Deposition
- C. CFCs
- D. Nox

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 42 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In composting, volume of solid waste is

- A. Reduced
- B. Enhanced
- C. Burnt
- D. Removed

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 43 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Secondary treatment is also known as

- A. Biological Treatment
- B. Preliminary Treatment
- C. Secondary Treatment
- D. Tertiary Treatment

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 44 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

By pulverization, solid waste becomes unattracted and odourless to

- A. Insects
- B. Fishes
- C. Animals
- D. Humans

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 45 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is important to support marine animals in water bodies?

- A. Dissolved Oxygen
- B. Nitrogen
- C. CO
- D. CO<sub>2</sub>

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 46 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which compositing requires large areas?

- A. Manual Compositing
- B. Mechanical Compositing
- C. Open Window Compositing
- D. Trenching

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 47 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Presence of hydrogen sulphide indicates anaerobic

- A. Decomposition
- B. Eutrophication
- C. Degradation
- D. Biodegradation

Options :

- 1. 1

- 2. 2
- 3. 3
- 4. 4

**Question Number : 48 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In higher temperature, D.O concentration of water molecules is, comparatively

- A. High
- B. Low
- C. Medium
- D. Very High

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 49 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In plants, acid leach, important elements in soil, resulting in reduced

- A. Photosynthesis
- B. Growth
- C. Evaporation
- D. Transpiration

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 50 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which bacteria consumes organic matter as their food, and thus oxidizing it to stable end product?

- A. Viruses
- B. Aerobic Bacteria
- C. Anaerobic Bacteria
- D. Rotifers

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 51 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Eight of top world's biggest cities are located in

- A. Mountain Areas
- B. Coastal Areas
- C. Hilly areas
- D. Terrestrial Areas

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 52 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many grams of air in a litre?

- A. 1.5 gm
- B. 1.3gm
- C. 1.2gm
- D. 7gm

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 53 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Bacterial decomposition of organic matter, releases  $\text{NO}_2$  into

- A. Stratosphere
- B. Troposphere
- C. Atmosphere
- D. Biosphere

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 54 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Uncontrolled, dumping is cheapest method of

- A. Solid waste
- B. Chemical Waste
- C. Nuclear Waste
- D. Food Waste

Options :

- 1. 1



- 2. 2
- 3. 3
- 4. 4

**Question Number : 55 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

**'Aerobic' decomposition takes place in**

- A. Two stages
- B. Three stages
- C. Four Stages
- D. Five stages

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 56 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

**Which chemical is a 'ozone' depleting solvent?**

- A. PAN
- B. CFCs
- C. Carbon tetrachloride
- D. Nitrogen

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 57 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

**Which solid waste disposal method is suitable to Indian conditions?**

- A. Land filling
- B. Incineration
- C. Pulverization
- D. Composition

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 58 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Temperature affects dilution, sedimentation and

- A. Dispersion
- B. Reduction
- C. Suspended solids
- D. Degradation

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 59 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Applied and basic aspects of environmental science require a solid foundation in

- A. Anthropogenic
- B. Natural Sciences
- C. Multi-disciplinary nature
- D. All of Above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 60 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Recycling is an integral part of

- A. Solid waste management
- B. Collection
- C. Disposal
- D. Processing

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 61 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Organic matter, which can be decomposed by bacteria is known as

- A. Biodegradable organic matter
- B. Degradation
- C. Eutrophication
- D. Decomposers

Options :

- 1. 1

- 2. 2
- 3. 3
- 4. 4

**Question Number : 62 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

When ELR and ALR are equal, atmosphere is said to be

- A. Higher
- B. Super Adiabatic
- C. Lapse rate
- D. Neutral

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 63 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Soil, silt washing from land surfaces, fertilizers, insecticides are known as

- A. Agricultural Pollution
- B. Mining Pollution
- C. Municipal Pollution
- D. Industrial Pollution

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 64 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

With passage of time, filled up solid wastes will get stabilized by

- A. Decomposition
- B. Eutrophication
- C. Hydrolysis
- D. Urbanization

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 65 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

How many major sources of solid waste are there based on their origin?

- A.10
- B. 5
- C. 9
- D.6

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 66 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the below is not an idea behind solid waste management?

- A. Control of waste generation
- B. Storage and collection
- C. Disposal
- D.Stop waste generation

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 67 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The number of functional components of solid waste management is:

- A. 5
- B. 3
- C. 6
- D.4

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 68 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The term ISWM refers to:

- A. International Solid Waste Management
- B. Integrated Solid Waste Management
- C. Integrated Solid Waste Machine
- D. International Solid Waste Mechanism

Options :

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

**Question Number : 69 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Under which rule of Government, guidelines for solid waste management are followed today?

- A. Municipal Solid Waste Rules, 2000
- B. Municipal Solid Waste Rules, 2016
- C. Solid Waste Rules, 2000
- D. Solid Waste Rules, 2016

**Options :**

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

**Question Number : 70 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The average composition of Municipal solid waste is:

- A. 41% organic, 40% inert & 19% recyclable
- B. 20% organic, 60% inert & 20% recyclable
- C. 30% organic, 20% inert & 50% recyclable
- D. 19% organic, 41% inert & 40% recyclable

**Options :**

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

**Question Number : 71 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

There are \_\_\_\_\_ ways to treat waste thermally.

- A. 5
- B. 3
- C. 2
- D. 6

**Options :**

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

Question Number : 72 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many types of landfills are there?

- A. 3
- B. 2
- C. 5
- D. 4

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 73 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Bio-medical waste can be effectively managed by the thermal process.

- A. True
- B. False

Options :

- 1. 1
- 2. 2

Question Number : 74 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The WHO has classified the bio-medical waste into \_\_\_\_\_ categories.

- A. 5
- B. 4
- C. 3
- D. 2

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 75 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which gas produced in open dumps from the decomposition of biodegradable waste?

- A. Ethane
- B. Methane
- C. Propene
- D. Ethene

Options :

- 1. 1
- 2. 2
- 3. 3

4. 4

Question Number : 76 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is the first state in India to make roof top rain water harvesting compulsory to all the houses?

- A. Tamil Nadu
- B. Kerala
- C. Assam
- D. Goa

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 77 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The name given to the diversion channels of the western Himalayas is \_\_\_\_\_

- A. Phalodi
- B. Johads
- C. Guls or Kuls
- D. Khadins

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 78 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is Palar pani?

- A. Spring
- B. Milk
- C. River water
- D. Rain water

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 79 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

When a river's water level reaches 10 metres, this means that:

- A. the water level is 10 metres above an arbitrary 'zero' level
- B. the water level is 10 metres above mean sea level
- C. the water level is 10 metres above mean sea level or an arbitrary 'zero' level
- D. it will flood.

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 80 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is the major source of fresh water which is available in India?

- A. Ocean water
- B. River water
- C. Pond water
- D. Ground water

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 81 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Narmada Bachao Andolan is related to \_\_\_\_\_

- A. Tehri
- B. Bhakra Nangal
- C. Sardar Sarovar
- D. Rihand

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 82 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

At what time usually rainfall is recorded in India? A.

- A. 4 P.M.
- B. 6 P.M.
- C. 8 P.M.
- D. 10 P.M.

Options :

- 1. 1
- 2. 2



3. 3

4. 4

**Question Number : 83 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The total surface of water in the earth surface is \_\_\_\_\_

- A. 65%
- B. 69%
- C. 71%
- D. 75%

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 84 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The rank of India in terms of water availability per person p.a in the world is \_\_\_\_\_

- A.130th
- B. 131st
- C. 132nd
- D.133rd

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 85 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Disasters can be broadly termed as \_\_\_\_\_ types.

- A) 2
- B) 4
- C) 5
- D) 3

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 86 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The annual flood peaks in India are recorded in months of:

- A. June, July
- B. July, August
- C. July, September
- D. August, September

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 87 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Uttarakhand lies in zone \_\_\_\_\_ of Earthquake prone areas.

- A. 5
- B. 3
- C. 4
- D. 2

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 88 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

To measure flood variability, \_\_\_\_\_ is used widely.

- A. FFMI
- B. FI C.
- FMI D.
- FFI

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 89 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many elements of disaster management are there?

- A. 8
- B. 7
- C. 4
- D. 6

Options :

- 1. 1

- 2. 2
- 3. 3
- 4. 4

**Question Number : 90 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the below is an example of slow-onset disaster?

- A. Earthquake
- B. Tsunami
- C. Cyclone
- D. Draught

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 91 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

How many phases of disaster response are there?

- A. 5
- B. 4
- C. 3
- D. 2

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 92 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The first step in preparedness planning is:

- A. Analysis of data collected
- B. Determination of objectives
- C. Development of implementing device
- D. Determination of strategy

**Options :**

- 1. 1
- 2. 2
- 3. 3
- 4. 4

**Question Number : 93 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Tsunami detectors are placed in sea at \_\_\_\_\_ kms from shore.

- A. 25
- B. 100
- C. 50
- D. 85

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 94 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Scientists have found which phenomenon changes elastic properties of earth's crust close to 6,000 kilometres away?

- A. Earthquakes
- B. Hurricanes
- C. Typhoons
- D. Cyclones

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 95 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In which of the following regions of Afghanistan, a high intensity earthquake was experienced on 10th Aug'15?

- A. Ghazni
- B. Hindukush
- C. Bamiyan
- D. Kabul

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 96 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

With how many countries is India working on an ambitious project with scientists, geophysicists, and seismologists to develop an early-warning system for prediction of earthquake?

- A. 5
- B. 15
- C. 27
- D. 32

**Options :**

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

**Question Number : 97 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Where was the epicentre of Earthquake of 7.9 magnitude that struck Nepal and India on 25th Apr'15?

- A. Gorakhpur
- B. Lamjung
- C. Kathmandu
- D. Kirtipur

**Options :**

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

**Question Number : 98 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What is the correct sequence of arrival of seismic waves?

- A. P waves- S waves... Love waves - Rayleigh waves
- B. Surface waves ... P waves .... S waves
- C. P waves ... Surface waves ... S waves
- D. S waves ... P waves .... Surface waves

**Options :**

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

**Question Number : 99 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following waves travel slowly?

- A. P waves
- B. S waves
- C. Tsunami waves
- D. Seismic body wave

**Options :**

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

Question Number : 100 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Earthquakes occur when there is a sudden release of stored up energy in Earth's

- A. Inner core
- B. Outer core
- C. Upper mantle
- D. Lower crust

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4