

# Telangana State Council Higher Education

## Notations :

- Options shown in green color and with ✓ icon are correct.
- Options shown in red color and with ✗ icon are incorrect.

|                                         |                                       |
|-----------------------------------------|---------------------------------------|
| <b>Question Paper Name :</b>            | Environmental Management 5th Aug 2022 |
|                                         | Shift 1                               |
| <b>Subject Name :</b>                   | Environmental Management              |
| <b>Creation Date :</b>                  | 2022-08-05 13:44:34                   |
| <b>Duration :</b>                       | 120                                   |
| <b>Total Marks :</b>                    | 120                                   |
| <b>Display Marks:</b>                   | Yes                                   |
| <b>Calculator :</b>                     | None                                  |
| <b>Magnifying Glass Required? :</b>     | No                                    |
| <b>Ruler Required? :</b>                | No                                    |
| <b>Eraser Required? :</b>               | No                                    |
| <b>Scratch Pad Required? :</b>          | No                                    |
| <b>Rough Sketch/Notepad Required? :</b> | No                                    |
| <b>Protractor Required? :</b>           | No                                    |
| <b>Show Watermark on Console? :</b>     | Yes                                   |
| <b>Highlighter :</b>                    | No                                    |
| <b>Auto Save on Console?</b>            | Yes                                   |
| <b>Change Font Color :</b>              | No                                    |
| <b>Change Background Color :</b>        | No                                    |
| <b>Change Theme :</b>                   | No                                    |
| <b>Help Button :</b>                    | No                                    |
| <b>Show Reports :</b>                   | No                                    |

Show Progress Bar :

No

## Environmental Management

|                               |           |
|-------------------------------|-----------|
| Group Number :                | 1         |
| Group Id :                    | 34058056  |
| Group Maximum Duration :      | 0         |
| Group Minimum Duration :      | 120       |
| Show Attended Group? :        | No        |
| Edit Attended Group? :        | No        |
| Break time :                  | 0         |
| Group Marks :                 | 120       |
| Is this Group for Examiner? : | No        |
| Examiner permission :         | Cant View |
| Show Progress Bar? :          | No        |

## Mathematics

|                                                              |           |
|--------------------------------------------------------------|-----------|
| Section Id :                                                 | 340580103 |
| Section Number :                                             | 1         |
| Section type :                                               | Online    |
| Mandatory or Optional :                                      | Mandatory |
| Number of Questions :                                        | 10        |
| Number of Questions to be attempted :                        | 10        |
| Section Marks :                                              | 10        |
| Enable Mark as Answered Mark for Review and Clear Response : | Yes       |
| Maximum Instruction Time :                                   | 0         |
| Sub-Section Number :                                         | 1         |
| Sub-Section Id :                                             | 340580103 |

Question Number : 1 Question Id : 3405806601 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The number of real roots of  $x^2 - 7|x| + 12 = 0$  is

Options :

34058026401. ✖ 1

34058026402. ✖ 2

34058026403. ✖ 3

34058026404. ✔ 4

Question Number : 2 Question Id : 3405806602 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If  $\alpha$  and  $\beta$  are the roots of  $x^2 + ax + 1 = 0$ , then  $\frac{\alpha}{\beta} + \frac{\beta}{\alpha} + 2 =$ 

Options :

34058026405. ✖ a

34058026406. ✔  $a^2$ 34058026407. ✖  $a^3$

34058026408. ✖  $a^4$

Question Number : 3 Question Id : 3405806603 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

$$\sum_{j=0}^{\infty} \frac{(-1)^j 3^j}{4^{j+1}} =$$

Options :

34058026409. ✖ 7

34058026410. ✖  $\frac{1}{21}$

34058026411. ✔  $\frac{1}{7}$

34058026412. ✖  $\frac{1}{14}$

Question Number : 4 Question Id : 3405806604 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The number of diagonals of a regular n-gon is 65. Then n =

Options :

34058026413. ✖ 11

34058026414. ✖ 12

34058026415. ✔ 13

34058026416. ✖ 14

**Question Number : 5 Question Id : 3405806605 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

If the mean and median of a discrete data are respectively 14.5 and 14, then the mode is

**Options :**

34058026417. ✔ 13

34058026418. ✖ 14

34058026419. ✖ 14.1

34058026420. ✖ 14.3

**Question Number : 6 Question Id : 3405806606 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

If the linear fit to the data (1, 2), (2, 5), (3, 10) and (4, 11) is  $y = ax + b$ , then  $b =$

**Options :**

34058026421. ✖ 2

34058026422. ✖ 1

34058026423. ✖ -2

34058026424. ✔ -1

**Question Number : 7 Question Id : 3405806607 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Coefficient of correlation of the data (1,2), (2, 4), (5, 10), (3, 6), (4, 8) is

**Options :**

34058026425. ✖  $\frac{1}{3}$

34058026426. ✖  $\frac{1}{2}$

34058026427. ✔ 1

34058026428. ✖ 0.9

**Question Number : 8 Question Id : 3405806608 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

$$\frac{1}{\sqrt{2}} + \frac{1}{\sqrt{6}} + \frac{1}{3\sqrt{2}} + \frac{1}{3\sqrt{6}} + \frac{1}{9\sqrt{2}} + \dots \infty =$$

**Options :**

34058026429. ✖  $6 - \sqrt{6}$

34058026430. ✖  $6 + \sqrt{6}$

34058026431. ✔  $3 + \sqrt{6}$

34058026432. ✖  $3 - \sqrt{6}$

**Question Number : 9 Question Id : 3405806609 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**

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

If  $\tan 30^\circ$  and  $\tan 15^\circ$  are the roots of the equation  $x^2 + ax + b = 0$ , then  $a - b =$

**Options :**

34058026433. ✖ 1

34058026434. ✔ -1

34058026435. ✖ 2

34058026436. ✖ 0

**Question Number : 10 Question Id : 3405806610 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The number of positive divisors of 360 is

Options :

34058026437. ✓ 24

34058026438. ✗ 30

34058026439. ✗ 36

34058026440. ✗ 12

## Environmental Management

|                                                              |           |
|--------------------------------------------------------------|-----------|
| Section Id :                                                 | 340580104 |
| Section Number :                                             | 2         |
| Section type :                                               | Online    |
| Mandatory or Optional :                                      | Mandatory |
| Number of Questions :                                        | 110       |
| Number of Questions to be attempted :                        | 110       |
| Section Marks :                                              | 110       |
| Enable Mark as Answered Mark for Review and Clear Response : | Yes       |
| Maximum Instruction Time :                                   | 0         |
| Sub-Section Number :                                         | 1         |
| Sub-Section Id :                                             | 340580104 |
| Question Shuffling Allowed :                                 | Yes       |

Question Number : 11 Question Id : 3405806611 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The coldest region of the atmosphere

Options :

34058026441. ✖ Troposphere

34058026442. ✖ Thermosphere

34058026443. ✖ Stratosphere

34058026444. ✔ Mesosphere

Question Number : 12 Question Id : 3405806612 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Plant species with a wide range of genetic distribution evolve into a local population known as

Options :

34058026445. ✖ Ecotype

34058026446. ✔ Population

34058026447. ✖ Ecosystem

34058026448. ✖ Biome

Question Number : 13 Question Id : 3405806613 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following pollutants can be degraded by natural process

Options :

34058026449. ✖ Heavy metals

34058026450. ✖ DDT

34058026451. ✖ Nuclear waste

34058026452. ✔ Biodegradable organics

Question Number : 14 Question Id : 3405806614 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Photochemical smog normally does not contain

Options :

34058026453. ✔ Chlorofluorocarbons

34058026454. ✖ Peroxyacetyl nitrate

34058026455. ✖ Ozone

34058026456. ✖ Acrolein

Question Number : 15 Question Id : 3405806615 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which is the renewable exhaustible natural energy resource

Options :

34058026457. ✖ Coal

34058026458. ✖ Petroleum

34058026459. ✖ Kerosene

34058026460. ✔ Biomass

Question Number : 16 Question Id : 3405806616 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following requires maximum energy

Options :

34058026461. ✖ Secondary consumer

34058026462. ✖ Decomposer

34058026463. ✖ Primary consumer

34058026464. ✔ Primary producer

Question Number : 17 Question Id : 3405806617 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The ratio between energy flow at different points in a food chain is known as

Options :

34058026465. ✖ Ecological capacity

34058026466. ✔ Ecological efficiency

34058026467. ✖ Ecological assimilation

34058026468. ✖ Ecological potential

Question Number : 18 Question Id : 3405806618 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In an ecosystem, the energy flow is always

Options :

34058026469. ✔ Unidirectional

34058026470. ✖ Bi – directional

34058026471. ✖ In any direction

34058026472. ✖ Down directional

Question Number : 19 Question Id : 3405806619 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Select a non-denitrifying bacteria

Options :

34058026473. ✖ Pseudomonas aeruginosa

34058026474. ✖ Thiobacillus

34058026475. ✖ Thiobacillus denitrificans

34058026476. ✔ Bacillus ramosus

Question Number : 20 Question Id : 3405806620 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The upper part of an aquatic ecosystem contains

Options :

34058026477. ✖ Nekton

34058026478. ✔ Plankton

34058026479. ✖ Benthos

34058026480. ✖ Nekton and Plankton

Question Number : 21 Question Id : 3405806621 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Most stable ecosystem is

Options :

34058026481. ✖ Mountain

34058026482. ✖ forest

34058026483. ✖ Desert

34058026484. ✔ Ocean

Question Number : 22 Question Id : 3405806622 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The loss in biodiversity is not attributed to

Options :

34058026485. ✖ Transforming earth's surface

34058026486. ✖ Explosion in the human population

34058026487. ✖ Destruction of natural habitats

34058026488. ✔ Use of sustainable products

Question Number : 23 Question Id : 3405806623 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The interdependence of the living organisms among themselves and with environment is called

Options :

34058026489. ✖ Ecology

34058026490. ✔ Ecosystem

34058026491. ✖ Biology

34058026492. ✖ Environment

Question Number : 24 Question Id : 3405806624 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which is the in-situ tiger reserve of India

Options :

34058026493. ✔ Dudhwa

34058026494. ✖ Gulf of Myanmar

34058026495. ✖ Western Ghats

34058026496. ✖ Agasthyamalai

Question Number : 25 Question Id : 3405806625 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Eating the fish from a mercury contaminated lake will cause \_\_\_\_\_ disease

Options :

34058026497. ✖ Fever

34058026498. ✔ Minamata disease

34058026499. ✖ Cancer

34058026500. ✖ Osteosclerosis

Question Number : 26 Question Id : 3405806626 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the pollutant will enhance the Eutrophication

Options :

34058026501. ✖ Organic carbon

34058026502. ✖ Pesticides

34058026503. ✔ Nutrients

34058026504. ✖ inorganic carbon

Question Number : 27 Question Id : 3405806627 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How many number of Biogeographic zones are present in India

Options :

34058026505. ✖ 4

34058026506. ✖ 8

34058026507. ✔ 10

34058026508. ✖ 15

Question Number : 28 Question Id : 3405806628 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

\_\_\_\_\_ in India are known as hotspot of biodiversity

Options :

34058026509. ✖ Sunderbans Deltas

34058026510. ✔ Western Ghats

34058026511. ✖ Eastern Ghats

34058026512. ✖ Gangetic plan

Question Number : 29 Question Id : 3405806629 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which is the first Indian state to sign an MoU with IUCN to prepare a red-list  
assessment of Orchids

Options :

34058026513. ✖ Sikkim

34058026514. ✖ West Bengal

34058026515. ✖ Assam

34058026516. ✔ Arunachal Pradesh

Question Number : 30 Question Id : 3405806630 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In stabilization ponds, the ineffective biological agent is

Options :

34058026517. ✖ Green algae

34058026518. ✖ Protozoans

34058026519. ✖ Fungi

34058026520. ✔ Virus

Question Number : 31 Question Id : 3405806631 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Biotic component of the environment doesn't include

Options :

34058026521. ✓ Soil System

34058026522. ✗ Animal System

34058026523. ✗ Plant system

34058026524. ✗ Microorganism system

Question Number : 32 Question Id : 3405806632 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is IUCN

Options :

34058026525. ✗ Internal Union Council for Natural gas

34058026526. ✗ Internal United Council of Nations

34058026527. ✗ International Union Council for Nature

34058026528. ✓ International Union for Conservation of Nature

**Question Number : 33 Question Id : 3405806633 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**

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

The Scientific study of biological communities is called

**Options :**

34058026529. ✖ Demography

34058026530. ✖ Taxonomy

34058026531. ✖ Zoology

34058026532. ✔ Community ecology

**Question Number : 34 Question Id : 3405806634 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**

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

In environmental management plans, higher conservation values are placed on

**Options :**

34058026533. ✖ Exotic biodiversity

34058026534. ✖ Invasive biodiversity

34058026535. ✔ Sacred biodiversity

34058026536. ✖ Local biodiversity

Question Number : 35 Question Id : 3405806635 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The largest source of anthropogenic methane emissions is

Options :

34058026537. ✓ Agriculture

34058026538. ✗ Energy sector

34058026539. ✗ Landfills

34058026540. ✗ Sewage treatment plants

Question Number : 36 Question Id : 3405806636 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The short term properties of atmosphere at a given place and time is referred as

Options :

34058026541. ✗ Season

34058026542. ✗ Climate

34058026543. ✓ Weather

34058026544. ✗ Microclimate

Question Number : 37 Question Id : 3405806637 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The most important type of species involved in the degradation of organic matter in the case of Biological Treatment Processes is

Options :

34058026545. ✓ Chemoheterotrophs

34058026546. ✗ Photo-heterotrophs

34058026547. ✗ Photoautotrophs

34058026548. ✗ Chemo-autotrophs

Question Number : 38 Question Id : 3405806638 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Growth of mesophiles are mostly favorable in temperature range

Options :

34058026549. ✗ 0° - 20° C

34058026550. ✗ 40° - 80° C

34058026551. ✓ 20° - 40° C

34058026552. ✗ 65° - 105° C

Question Number : 39 Question Id : 3405806639 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Substrate dependent rate of growth is typically modeled using

Options :

34058026553. ✖ First order kinetics

34058026554. ✖ Zero order kinetics

34058026555. ✔ Monod kinetics

34058026556. ✖ Second order

Question Number : 40 Question Id : 3405806640 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of the following relations holds true for the specific growth rate ( $\mu$ ) of a microorganism in the stationary phase

Options :

34058026557. ✔  $\mu = 0$

34058026558. ✖  $\mu = \mu_{\max}$

34058026559. ✖  $\mu < 0$

34058026560. ✖  $0 < \mu < \mu_{\max}$

**Question Number : 41 Question Id : 3405806641 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Which class of micro-organisms are most active in anaerobic digestion of sludge

**Options :**

34058026561. ✖ Mesophiles and psychrophiles

34058026562. ✖ Thermophiles and psychrophiles

34058026563. ✔ Thermophiles and mesophiles

34058026564. ✖ Halophiles and mesophiles

**Question Number : 42 Question Id : 3405806642 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**

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

The correct sequence in anaerobic treatment process is

**Options :**

34058026565. ✖ Acidogenesis→Acetogenesis→Methanogenesis→ Hydrolysis

34058026566. ✖ Hydrolysis→Acetogenesis→Acidogenesis→Methanogenesis

34058026567. ✔ Hydrolysis →Acidogenesis→Acetogenesis→Methanogenesis

34058026568. ✖ Acetogenesis→Acidogenesis→Methanogenesis→ Hydrolysis

Question Number : 43 Question Id : 3405806643 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The settling velocity of a spherical particle in still water is given by

Options :

34058026569. ✖ Lacey's formula

34058026570. ✖ Hazen William's formula

34058026571. ✖ Darcy's law

34058026572. ✔ Stoke's law

Question Number : 44 Question Id : 3405806644 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

All of the following species are considered coliforms except

Options :

34058026573. ✖ Enterobacter aerogenes

34058026574. ✔ Klebsiella pneumonia

34058026575. ✖ Salmonella typhi

34058026576. ✖ Escherichia coli

Question Number : 45 Question Id : 3405806645 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Algae can be very beneficial, but they cause a problem when they remove

Options :

34058026577. ✓ Iron

34058026578. ✗ Nitrates

34058026579. ✗ Ammonium

34058026580. ✗ Phosphorous

Question Number : 46 Question Id : 3405806646 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which source of the water, among the following is not a surface source

Options :

34058026581. ✗ River

34058026582. ✗ Lake

34058026583. ✗ Sea

34058026584. ✓ Well

**Question Number : 47 Question Id : 3405806647 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**  
**Correct Marks : 1 Wrong Marks : 0**

Which one of the following would contain water with the maximum amount of turbidity

**Options :**

34058026585. ✖ Open well

34058026586. ✖ Lake

34058026587. ✔ River

34058026588. ✖ Sea

**Question Number : 48 Question Id : 3405806648 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**  
**Correct Marks : 1 Wrong Marks : 0**

Groundwater is

**Options :**

34058026589. ✔ Free from suspended solids but contain dissolved solids

34058026590. ✖ Free from harmful bacteria but may contain harmless bacteria

34058026591. ✖ Free from floating impurities but may have suspended solids

34058026592. ✖ Free from dissolved solids but may have colloidal solids

Question Number : 49 Question Id : 3405806649 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A deep well

Options :

34058026593. ✖ Easily gets dried up during summer

34058026594. ✔ May yield constant discharge

34058026595. ✖ Is not deeper than shallow well

34058026596. ✖ Is formed by tapping the nearest aquifer to the ground

Question Number : 50 Question Id : 3405806650 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Water is said to be contaminated, if it contains

Options :

34058026597. ✔ Pathogens

34058026598. ✖ Undesirable suspended solids

34058026599. ✖ Dissolved solids

34058026600. ✖ None of the above

Question Number : 51 Question Id : 3405806651 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Coagulation-flocculation with alum is performed

Options :

34058026601. ✖ Immediately before chlorination

34058026602. ✖ Immediately after chlorination

34058026603. ✖ After rapid sand filtration

34058026604. ✔ Before rapid sand filtration

Question Number : 52 Question Id : 3405806652 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The average domestic consumption under normal conditions in an Indian city per  
day per person is

Options :

34058026605. ✖ 165 litres

34058026606. ✖ 115 litres

34058026607. ✖ 125 litres

34058026608. ✔ 135 litres

Question Number : 53 Question Id : 3405806653 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What driving force keeps the nitrogen cycle moving

Options :

34058026609. ✓ Ammonia and bacteria

34058026610. ✗ Solar radiation

34058026611. ✗ Atmospheric water

34058026612. ✗ Soil biota

Question Number : 54 Question Id : 3405806654 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Coagulants used in water treatment function better when the raw water is

Options :

34058026613. ✗ Acidic

34058026614. ✓ Alkaline

34058026615. ✗ Neutral

34058026616. ✗ Acidic and Neutral

Question Number : 55 Question Id : 3405806655 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Cleaning of slow sand filters is done by

Options :

34058026617. ✓ Scraping and removal of sand

34058026618. ✗ Back washing

34058026619. ✗ Disinfection with chlorine

34058026620. ✗ Water jets

Question Number : 56 Question Id : 3405806656 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Rapid sand filter

Options :

34058026621. ✓ Should be preceded by coagulation and sedimentation

34058026622. ✗ Can remove dissolved organic substances also

34058026623. ✗ Is used after slow sand filtration

34058026624. ✗ Can combine disinfection also

Question Number : 57 Question Id : 3405806657 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The Kjeldahl method is used for the quantitative determination of

Options :

34058026625. ✖ Carbon monoxide

34058026626. ✔ Nitrogen

34058026627. ✖ Phosphates

34058026628. ✖ Suspended particulates

Question Number : 58 Question Id : 3405806658 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If the chlorine fed and chlorine demand of water is 1.5mg/l and 1.3mg/l respectively, the residual chlorine in  $\text{g/m}^3$  is

Options :

34058026629. ✔ 0.2

34058026630. ✖ 20

34058026631. ✖ 2

34058026632. ✖ 0.02

Question Number : 59 Question Id : 3405806659 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Slow sand filter is efficient to remove the bacteria from the raw water to an extent of

Options :

34058026633. ✖ 50%

34058026634. ✖ 70%

34058026635. ✖ 85%

34058026636. ✔ 99%

Question Number : 60 Question Id : 3405806660 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Odour and taste is controlled by

Options :

34058026637. ✖ Disinfection

34058026638. ✔ Aeration

34058026639. ✖ Coagulation

34058026640. ✖ Soda-lime process

Question Number : 61 Question Id : 3405806661 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which among the following is NOT a secondary pollutant

Options :

34058026641. ✓ Oxides of Nitrogen

34058026642. ✗ Ozone

34058026643. ✗ Peroxyacetyl nitrate

34058026644. ✗ Nitric acid

Question Number : 62 Question Id : 3405806662 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The rate limiting step for the production of biogas from an anaerobic digestion of sludge is

Options :

34058026645. ✗ Acidification

34058026646. ✗ Alkalisation

34058026647. ✗ Acetogenesis

34058026648. ✓ Methanogenesis

Question Number : 63 Question Id : 3405806663 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If DO concentration falls down to zero in any natural drainage, it indicates

Options :

34058026649. ✖ Zone of degradation

34058026650. ✔ Zone of active decomposition

34058026651. ✖ Zone of recovery

34058026652. ✖ Zone of cleaner water

Question Number : 64 Question Id : 3405806664 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The end products of Aerobic treatment of wastewater contains

Options :

34058026653. ✔ Carbon dioxide and water

34058026654. ✖ Methane

34058026655. ✖ Alcohol

34058026656. ✖ Hydrogen sulfide

Question Number : 65 Question Id : 3405806665 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Volcanic eruption driven by the heat from magma interacting with water is called

Options :

34058026657. ✖ Phreatomagmatic eruption

34058026658. ✔ Phreatic eruption

34058026659. ✖ Hydrothermal eruption

34058026660. ✖ Sial eruption

Question Number : 66 Question Id : 3405806666 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The self-purification of streams can be modelled using

Options :

34058026661. ✖ Darcy's law

34058026662. ✖ Hazen Williams model

34058026663. ✔ Streeter Phelps model

34058026664. ✖ Stokes law

Question Number : 67 Question Id : 3405806667 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Trickling filters are used to remove

Options :

34058026665. ✖ Suspended solids

34058026666. ✖ Colloidal solids

34058026667. ✔ Organic matter

34058026668. ✖ Pathogenic bacteria

Question Number : 68 Question Id : 3405806668 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Geologic processes powered by the wind are called \_\_\_\_\_ processes

Options :

34058026669. ✖ Barchan

34058026670. ✖ Yardang

34058026671. ✖ Coriolis

34058026672. ✔ Eolian

Question Number : 69 Question Id : 3405806669 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Rotating biological contacting reactor is a

Options :

34058026673. ✖ Suspended growth system

34058026674. ✔ Attached growth system

34058026675. ✖ Suspended cum attached growth system

34058026676. ✖ Suspended sink system

Question Number : 70 Question Id : 3405806670 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Sewage treatment in an oxidation pond is accomplished primarily by

Options :

34058026677. ✔ Algal-bacterial symbiosis

34058026678. ✖ Algal photosynthesis only

34058026679. ✖ Bacterial oxidation only

34058026680. ✖ Chemical oxidation only

Question Number : 71 Question Id : 3405806671 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The presence of free ammonia in sewage is detected by

Options :

34058026681. ✓ Boiling

34058026682. ✗ Adding potassium permanganate

34058026683. ✗ Adding sulphuric acid

34058026684. ✗ Phenol di-sulphuric acid

Question Number : 72 Question Id : 3405806672 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

De-chlorination is followed by

Options :

34058026685. ✗ Post-chlorination

34058026686. ✗ Pre-chlorination

34058026687. ✗ Double chlorination

34058026688. ✓ Super chlorination

Question Number : 73 Question Id : 3405806673 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The dominating microorganisms in an activated sludge process reactor are

Options :

34058026689. ✓ Aerobic heterotrophs

34058026690. ✗ Anaerobic heterotrophs

34058026691. ✗ Autotrophs

34058026692. ✗ Phototrophs

Question Number : 74 Question Id : 3405806674 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The main objective of tertiary treatment of sewage is to remove

Options :

34058026693. ✗ Suspended particles

34058026694. ✗ The BOD causing substances

34058026695. ✓ Inorganic fragment such as the nitrogen and phosphorus

34058026696. ✗ Organic contaminants

Question Number : 75 Question Id : 3405806675 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The aerobic method of composting as practiced in India is called as

Options :

34058026697. ✖ Bangalore method

34058026698. ✖ Mangalore method

34058026699. ✔ Indore method

34058026700. ✖ Nagpur method

Question Number : 76 Question Id : 3405806676 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Presence of nitrogen in a wastewater sample is due to the decomposition of

Options :

34058026701. ✖ Carbohydrates

34058026702. ✔ Proteins

34058026703. ✖ Fats

34058026704. ✖ Vitamins

Question Number : 77 Question Id : 3405806677 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The method of refuse disposal involving burial in trenches is called as

Options :

34058026705. ✖ Incineration

34058026706. ✖ Pulverization

34058026707. ✖ Land filling

34058026708. ✔ Composting

Question Number : 78 Question Id : 3405806678 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Leachate is a colored liquid that comes out of

Options :

34058026709. ✖ Septic tanks

34058026710. ✔ Sanitary land fills

34058026711. ✖ Aerated lagoons

34058026712. ✖ Compost plants

Question Number : 79 Question Id : 3405806679 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Non disposal of solid waste may cause the spread of

Options :

34058026713. ✖ Malaria

34058026714. ✔ Rodent related deceases

34058026715. ✖ Typhoid

34058026716. ✖ Dysentery

Question Number : 80 Question Id : 3405806680 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The quantity of refuse produced in an average Indian city or a town is of the order of

Options :

34058026717. ✖ 1.0-2.0 kg per capita per day

34058026718. ✖ 2.-5.0 kg per capita per day

34058026719. ✔ 0.5-0.8 kg per capita per day

34058026720. ✖ 5.0-6.0 kg per capita per day

Question Number : 81 Question Id : 3405806681 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The ratio of Flow through periods to detention period in a sedimentation tank is called

Options :

34058026721. ✖ Surface loading

34058026722. ✖ Settling velocity

34058026723. ✖ Overflow rate

34058026724. ✔ Displacement efficiency

Question Number : 82 Question Id : 3405806682 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The description of solid waste collected is as follows

Night Soil: 25 t      Debris: 10 t      Rubbish: 12 t      Garbage: 15 t

The organic solids in the above composition

Options :

34058026725. ✖ 35 t

34058026726. ✖ 22t

34058026727. ✖ 27t

34058026728. ✔ 40t

Question Number : 83 Question Id : 3405806683 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The term refuse generally does not include

Options :

34058026729. ✖ Putrescible solid waste

34058026730. ✖ Excreta

34058026731. ✖ Non putrescible solid waste

34058026732. ✔ Ashes

Question Number : 84 Question Id : 3405806684 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Acid rain is caused by oxides of \_\_\_\_\_

Options :

34058026733. ✖ Phosphorus and carbon

34058026734. ✔ Sulphur and Nitrogen

34058026735. ✖ Sulphur and Phosphorus

34058026736. ✖ Nitrogen and carbon

Question Number : 85 Question Id : 3405806685 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The build-up of \_\_\_\_\_ is known as 'Greenhouse effect' in the atmosphere  
which leads to global warming.

Options :

34058026737. ✖ Chlorine

34058026738. ✖ Sulphur dioxide

34058026739. ✖ Fluorine

34058026740. ✔ Carbon dioxide

Question Number : 86 Question Id : 3405806686 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The lens used in aerial photogrammetry has a maximum coverage capacity of  
\_\_\_\_\_ (in angles)

Options :

34058026741. ✖  $53^{\circ}$

34058026742. ✖  $63^{\circ}$

34058026743. ✓ 93<sup>0</sup>

34058026744. ✗ 98<sup>0</sup>

**Question Number : 87 Question Id : 3405806687 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Rating curve can be used for

**Options :**

34058026745. ✗ Reflecting signal

34058026746. ✗ Determining strength of signal

34058026747. ✗ Polarization of signal

34058026748. ✓ Stage measurements

**Question Number : 88 Question Id : 3405806688 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

A process where the force of pulling is produced inside the xylem tissue is called

**Options :**

34058026749. ✗ Evaporation pull

34058026750. ✗ Active transport pull

34058026751. ✖ Ionic pull

34058026752. ✔ Transpiration pull

Question Number : 89 Question Id : 3405806689 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Sulphur dioxide is contributed to the atmosphere mainly from

Options :

34058026753. ✖ Automobile exhausts

34058026754. ✔ Thermal power plants

34058026755. ✖ Incineration units

34058026756. ✖ Mining

Question Number : 90 Question Id : 3405806690 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The following device works based on the inertial force of the particle

Options :

34058026757. ✖ Fabric filter

34058026758. ✖ Electrostatic precipitator

34058026759. ✓ Cyclone separator

34058026760. ✗ Gravitational settling chamber

**Question Number : 91 Question Id : 3405806691 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

The major photochemical oxidant is

**Options :**

34058026761. ✓ Ozone

34058026762. ✗ Hydrogen peroxide

34058026763. ✗ Chlorine

34058026764. ✗ Oxides of nitrogen

**Question Number : 92 Question Id : 3405806692 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Ringelmann's scale is used to measure

**Options :**

34058026765. ✗ Concentration of oxides of nitrogen

34058026766. ✗ Concentration of oxides of sulphur

34058026767. ✓ Smoke Density

34058026768. ✗ Smoke velocity

Question Number : 93 Question Id : 3405806693 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The most notorious pollutant responsible for metallic corrosion is

Options :

34058026769. ✓ SO<sub>2</sub>

34058026770. ✗ NO<sub>2</sub>

34058026771. ✗ Ozone

34058026772. ✗ CFC

Question Number : 94 Question Id : 3405806694 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The following method can be used to collect the particulate pollutants

Options :

34058026773. ✓ Impingement

34058026774. ✗ Freeze out sampling

34058026775. ✖ Grab sampling

34058026776. ✖ Absorption in liquids

Question Number : 95 Question Id : 3405806695 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The amount of water stored in a river channel without any artificial storage is called

Options :

34058026777. ✖ Bank storage

34058026778. ✖ River storage

34058026779. ✔ Valley storage

34058026780. ✖ Dead storage

Question Number : 96 Question Id : 3405806696 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A generic combination of many natural unit hydrographs is known as

Options :

34058026781. ✔ Dimensionless unit hydrograph

34058026782. ✖ Synthetic hydrograph

34058026783. ✖ Natural hydrograph

34058026784. ✖ Dam Breach hydrograph

Question Number : 97 Question Id : 3405806697 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Hydraulic conductivity of soils varies directly with

Options :

34058026785. ✖ Capillary porosity

34058026786. ✔ Total porosity

34058026787. ✖ Non Capillary porosity

34058026788. ✖ Water holding capacity

Question Number : 98 Question Id : 3405806698 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which one of the following helps to identify objects on the earth surface

Options :

34058026789. ✖ Atmospheric window

34058026790. ✔ Signature

34058026791. ✖ Radiometric error

34058026792. ✖ Atmospheric window & Radiometric error

**Question Number : 99 Question Id : 3405806699 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

The waves used by artificial satellites for communication is

**Options :**

34058026793. ✖ Infrared waves

34058026794. ✔ Microwaves

34058026795. ✖ Radio waves

34058026796. ✖ X-rays

**Question Number : 100 Question Id : 3405806700 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

The pollutants try to enter through \_\_\_\_\_ and diffuse to the surface of the cells  
within the leaf causing damage

**Options :**

34058026797. ✖ Chloroplasts

34058026798. ✔ Stomata

34058026799. ✖ Larynx

34058026800. ✖ Alveolus

Question Number : 101 Question Id : 3405806701 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The point on the celestial sphere vertically below the observer's point is

Options :

34058026801. ✖ Zenith

34058026802. ✖ Celestial point

34058026803. ✔ Nadir

34058026804. ✖ Pole

Question Number : 102 Question Id : 3405806702 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Wavelength region of 0.7 to 1.8 micrometre belongs to

Options :

34058026805. ✖ Thermal IR

34058026806. ✔ Near IR

34058026807. ✖ Mid IR

34058026808. ✖ Close IR

**Question Number : 103 Question Id : 3405806703 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Grothus–Draper law deals with

**Options :**

34058026809. ✖ Infra-red spectroscopy and near-infrared spectroscopy

34058026810. ✔ Principle of Photochemical Activation

34058026811. ✖ Zero gravity conditions

34058026812. ✖ Solubility of substances

**Question Number : 104 Question Id : 3405806704 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Which law states that for every quantum of radiation that is absorbed, one molecule of the substance reacts

**Options :**

34058026813. ✖ Lambert's law

34058026814. ✖ Beer's law

34058026815. ✔ Stark-Einstein

34058026816. ✖ Stark law

**Question Number : 105 Question Id : 3405806705 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Spectral reflectance curve is the graph between

**Options :**

34058026817. ✖ Wavelength and radiation

34058026818. ✔ Wavelength and reflectance

34058026819. ✖ Radiation and reflectance

34058026820. ✖ Radiation

**Question Number : 106 Question Id : 3405806706 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

The atmospheric windows of visible region in micrometre is

**Options :**

34058026821. ✖ 0.4 to 0.5

34058026822. ✖ 0.3 to 0.7

34058026823. ✔ 0.4 to 0.7

34058026824. ✖ 0.5 to 0.6

**Question Number : 107 Question Id : 3405806707 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Which of the following types of control agents would be used to achieve sterility

**Options :**

34058026825. ✔ Sporicide

34058026826. ✖ Virucide

34058026827. ✖ Germicide

34058026828. ✖ Fungicide

**Question Number : 108 Question Id : 3405806708 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Indian Satellite Based Augmentation System among the following

**Options :**

34058026829. ✔ GAGAN

34058026830. ✖ WAAS

34058026831. ✖ EGNOS

34058026832. ✖ MSAS

**Question Number : 109 Question Id : 3405806709 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Which of the following represents the passively drifting component of aquatic ecosystems

**Options :**

34058026833. ✖ Nekton

34058026834. ✖ Plankton and nekton

34058026835. ✔ Plankton

34058026836. ✖ Benthos

**Question Number : 110 Question Id : 3405806710 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Which one of the following is third generation navigation satellite system

**Options :**

34058026837. ✓ IRNSS

34058026838. ✗ GPS

34058026839. ✗ GLONASS

34058026840. ✗ PLSV

Question Number : 111 Question Id : 3405806711 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Radiometric resolution of Cartosat -1

Options :

34058026841. ✗ 2 bit

34058026842. ✗ 4 bit

34058026843. ✗ 8 bit

34058026844. ✓ 10 bit

Question Number : 112 Question Id : 3405806712 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Plant that thrives in shifting sands, primarily in deserts are called

Options :

34058026845. ✗ Heliophytes

34058026846. ✖ Sciophytes

34058026847. ✔ Psammophytes

34058026848. ✖ Halophytes

**Question Number : 113 Question Id : 3405806713 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Rocks are formed due to alternation of original structure due to heat and excessive pressure are called as

**Options :**

34058026849. ✖ Sedimentary rocks

34058026850. ✖ Igneous rocks

34058026851. ✔ Metamorphic rocks

34058026852. ✖ Volcanic rocks

**Question Number : 114 Question Id : 3405806714 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Which of the following is used in microbiology to detect production of gas by microorganisms

**Options :**

34058026853. ✖ Cragie tube

34058026854. ✖ U-tube

34058026855. ✖ Drying tube

34058026856. ✔ Durham tube

**Question Number : 115 Question Id : 3405806715 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**

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

The rocks having alumina or clay as their major constituents are known as

**Options :**

34058026857. ✖ Silicous rocks

34058026858. ✔ Argillaceous rocks

34058026859. ✖ Calcareous rocks

34058026860. ✖ Sedimentary rocks

**Question Number : 116 Question Id : 3405806716 Question Type : MCQ Option Shuffling : Yes**  
**Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time**  
**: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Spatial data represents

**Options :**

34058026861. ✖ Characteristics of a feature

34058026862. ✔ Location

34058026863. ✖ Shape file

34058026864. ✖ Data Base

**Question Number : 117 Question Id : 3405806717 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Map showing details of administrative units are called

**Options :**

34058026865. ✖ Dot map

34058026866. ✖ Isarithmic map

34058026867. ✔ Choropleth map

34058026868. ✖ Dasymetric map

**Question Number : 118 Question Id : 3405806718 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0**

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

Which of the following is an example of Indicator microbial culture medium

**Options :**

34058026869. ✖ Lowenstein-Jensen media

34058026870. ✖ Egg-saline medium

34058026871. ✔ MacConkey agar

34058026872. ✖ Cary-Blair medium

Question Number : 119 Question Id : 3405806719 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A perched aquifer is essentially found within

**Options :**

34058026873. ✔ An unconfined aquifer

34058026874. ✖ A confined aquifer

34058026875. ✖ An aquiclude

34058026876. ✖ Agriculture

Question Number : 120 Question Id : 3405806720 Question Type : MCQ Option Shuffling : Yes  
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time  
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Water level in confined well

Options :

34058026877. ✖ Increases with increase in the atmospheric pressure

34058026878. ✔ Decreases with increase in the atmospheric pressure

34058026879. ✖ Does not undergo any change with change in atmospheric pressure

34058026880. ✖ Remain same