

# National Testing Agency

**Question Paper Name :** PGQP32 15th Sep 2021 Shift 2  
**Subject Name :** PGQP32  
**Creation Date :** 2021-09-15 22:47:27  
**Duration :** 120  
**Total Marks :** 400  
**Display Marks:** Yes

## PGQP32

**Group Number :** 1  
**Group Id :** 19088931  
**Group Maximum Duration :** 0  
**Group Minimum Duration :** 120  
**Show Attended Group? :** No  
**Edit Attended Group? :** No  
**Break time :** 0  
**Group Marks :** 400  
**Is this Group for Examiner? :** No

## PART A - General

**Section Id :** 19088981  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional :** Mandatory

<b>Number of Questions :</b>	25
<b>Number of Questions to be attempted :</b>	25
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889117
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 1908893499 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Select the correct word that can best complete the given sentence:

By training children at a young age we can bring out the \_\_\_\_\_ talents in them.

- |                 |              |
|-----------------|--------------|
| (1) artificial  | (2) budding  |
| (3) superficial | (4) inherent |

**Options :**

19088913901. 1

19088913902. 2

19088913903. 3

19088913904. 4

**Question Number : 2 Question Id : 1908893500 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

From the choices given below, select the pair which exhibits the same relationship as the one in capitalized pair of words:

SOUP : APPETIZER

- |                        |                       |
|------------------------|-----------------------|
| (1) coffee : bean      | (2) pudding : dessert |
| (3) breakfast : cereal | (4) tea : drink       |

**Options :**

19088913905. 1

19088913906. 2

19088913907. 3

19088913908. 4

**Question Number : 3 Question Id : 1908893501 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Select the most suitable synonym :

MUDDLE

- |              |               |
|--------------|---------------|
| (1) whisper  | (2) horde     |
| (3) disorder | (4) speculate |

**Options :**

19088913909. 1

19088913910. 2

19088913911. 3

19088913912. 4

**Question Number : 4 Question Id : 1908893502 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Identify the part of the body with which the disease is associated:

Leukemia

- |           |                      |
|-----------|----------------------|
| (1) heart | (2) skin             |
| (3) lungs | (4) lymphatic system |

**Options :**

19088913913. 1

19088913914. 2

19088913915. 3

19088913916. 4

**Question Number : 5 Question Id : 1908893503 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Identify the meaning of the expression below from the options given:

Per se

- |                      |                 |
|----------------------|-----------------|
| (1) by word of mouth | (2) gossip      |
| (3) by itself        | (4) spontaneous |

**Options :**

19088913917. 1

19088913918. 2

19088913919. 3

19088913920. 4

**Question Number : 6 Question Id : 1908893504 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Identify the meaning of the underlined word:

Home appliances manufacturer 'B' electrical Limited is looking for acquisitions in the domestic market.

- |                |                |
|----------------|----------------|
| (1) obtainment | (2) apprentice |
| (3) attrition  | (4) attention  |

**Options :**

19088913921. 1

19088913922. 2

19088913923. 3

19088913924. 4

**Question Number : 7 Question Id : 1908893505 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Identify the meaning of the phrase below from the options given:

Leave to a person by a will

- |             |              |
|-------------|--------------|
| (1) beseech | (2) billow   |
| (3) blanch  | (4) bequeath |

**Options :**

19088913925. 1

19088913926. 2

19088913927. 3

19088913928. 4

**Question Number : 8 Question Id : 1908893506 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Select the most suitable antonym:

SKIMPY

- |              |              |
|--------------|--------------|
| (1) glaring  | (2) modest   |
| (3) affluent | (4) generous |

**Options :**

19088913929. 1

19088913930. 2

19088913931. 3

19088913932. 4

**Question Number : 9 Question Id : 1908893507 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Identify the meaning of the idiom from the options given:

A man of the world

- (1) headstrong and arrogant
- (2) highly trustworthy
- (3) very popular because of success
- (4) highly experienced in many fields

**Options :**

19088913933. 1

19088913934. 2

19088913935. 3

19088913936. 4

**Question Number : 10 Question Id : 1908893508 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Select the correct word from the answer:

Now a days, it is difficult to \_\_\_\_\_ good books in English.

- (1) track (2) verify  
(3) find (4) know

**Options :**

19088913937. 1

19088913938. 2

19088913939. 3

19088913940. 4

**Question Number : 11 Question Id : 1908893509 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

If Neena says "Anita's father Raman is the only son of my father-in-law Mahipal", then how is Bindu, who is the sister of Anita, related to Mahipal?

- (1) Neice (2) Daughter  
(3) Wife (4) None of these

**Options :**

19088913941. 1

19088913942. 2

19088913943. 3

19088913944. 4

**Question Number : 12 Question Id : 1908893510 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Choose the missing term out of the given alternatives.

Y, W, U, S, Q, \_\_, \_\_

(1) N, J

(2) M, L

(3) J, R

(4) O, M

**Options :**

19088913945. 1

19088913946. 2

19088913947. 3

19088913948. 4

**Question Number : 13 Question Id : 1908893511 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Arrange the given words in alphabetical order and tick the one that comes last.

(1) Abandon

(2) Actuate

(3) Accumulate

(4) Acquit

**Options :**

19088913949. 1

19088913950. 2

19088913951. 3

19088913952. 4

**Question Number : 14 Question Id : 1908893512 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Raman ranks sixteenth from the top and forty nine from the bottom in a class. How many students are there in the class?

(1) 64

(2) 65

(3) 66

(4) None of these



**Options :**

- 19088913953. 1
- 19088913954. 2
- 19088913955. 3
- 19088913956. 4

**Question Number : 15 Question Id : 1908893513 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

If  $\times$  means  $\div$ ,  $-$  means  $\times$ ,  $\div$  means  $+$  and  $+$  means  $-$ , then

$$(3 - 15 \div 19) \times 8 + 6 = ?$$

- |       |        |
|-------|--------|
| (1) 8 | (2) 4  |
| (3) 2 | (4) -1 |

**Options :**

- 19088913957. 1
- 19088913958. 2
- 19088913959. 3
- 19088913960. 4

**Question Number : 16 Question Id : 1908893514 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Choose the correct alternative based on relationship :

Botany : Plants :: Entomology : ?

- |            |             |
|------------|-------------|
| (1) Snakes | (2) Insects |
| (3) Birds  | (4) Germs   |

**Options :**

- 19088913961. 1
- 19088913962. 2
- 19088913963. 3

19088913964. 4

**Question Number : 17 Question Id : 1908893515 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Choose the correct answer:

$$9572 - 4018 - 2164 = ?$$

(1) 3300

(2) 3390

(3) 3570

(4) 7718

**Options :**

19088913965. 1

19088913966. 2

19088913967. 3

19088913968. 4

**Question Number : 18 Question Id : 1908893516 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The H.C.F. (Highest Common Factor) of 2923 and 3239 is :

(1) 37

(2) 47

(3) 73

(4) 79

**Options :**

19088913969. 1

19088913970. 2

19088913971. 3

19088913972. 4

**Question Number : 19 Question Id : 1908893517 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

One fifth of a number exceeds one seventh of the same by 10. The number is :

- (1) 125 (2) 150  
(3) 175 (4) 200

**Options :**

19088913973. 1

19088913974. 2

19088913975. 3

19088913976. 4

**Question Number : 20 Question Id : 1908893518 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

If a number, divided by 4, is reduced by 21, the number is :

- (1) 18 (2) 20  
(3) 28 (4) 38

**Options :**

19088913977. 1

19088913978. 2

19088913979. 3

19088913980. 4

**Question Number : 21 Question Id : 1908893519 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The newly launched 100 rupees notes have the motif of \_\_\_\_\_ on the reverse side.

- (1) Mangalyaan (2) Sanchi stupa  
(3) Hampi with chariot (4) Rani ki vav

**Options :**

19088913981. 1

19088913982. 2

19088913983. 3

19088913984. 4

**Question Number : 22 Question Id : 1908893520 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The 'Mission Purvodaya' initiative is related to the development of which of the following?

- |                        |                  |
|------------------------|------------------|
| (1) Agriculture sector | (2) Space sector |
| (3) Dairy sector       | (4) Steel sector |

**Options :**

19088913985. 1

19088913986. 2

19088913987. 3

19088913988. 4

**Question Number : 23 Question Id : 1908893521 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Generally wooden doors are difficult to open or close during rainy season because of

- |               |                    |
|---------------|--------------------|
| (1) Diffusion | (2) Imbibition     |
| (3) Osmosis   | (4) Photosynthesis |

**Options :**

19088913989. 1

19088913990. 2

19088913991. 3

19088913992. 4

**Question Number : 24 Question Id : 1908893522 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Mahabhasya, an outstanding work in the fields of Sanskrit grammar, is attributed to

- |               |             |
|---------------|-------------|
| (1) Ghosha    | (2) Ashwins |
| (3) Patanjali | (4) Kalidas |

**Options :**

19088913993. 1

19088913994. 2

19088913995. 3

19088913996. 4

**Question Number : 25 Question Id : 1908893523 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Who among the following passed the Bengal Sati Regulation Act, 1829, which declared the practice of 'Sati' a punishable offence?

- |                           |                     |
|---------------------------|---------------------|
| (1) Lord William Bentinck | (2) Lord Dalhousie  |
| (3) Lord Wellesley        | (4) Warren Hastings |

**Options :**

19088913997. 1

19088913998. 2

19088913999. 3

19088914000. 4

## **PART B - ENVIRONMENTAL STUDIES**

**Section Id :** 19088982

**Section Number :** 2

<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	75
<b>Number of Questions to be attempted :</b>	75
<b>Section Marks :</b>	300
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889118
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 26 Question Id : 1908893524 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following conditions correctly describes oligotrophic lakes?

- (1) Presence of very little nutrients
- (2) Presence of moderate amount of nutrients
- (3) Presence of large amount of nutrients
- (4) Presence of large amount of biomass

**Options :**

19088914001. 1

19088914002. 2

19088914003. 3

19088914004. 4

**Question Number : 27 Question Id : 1908893525 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Polar Stratospheric Clouds are associated with which of the following?

- |                           |                        |
|---------------------------|------------------------|
| (1) Ozone layer depletion | (2) Green House Effect |
| (3) Acid Rain             | (4) Artificial Rain    |

**Options :**

- 19088914005. 1
- 19088914006. 2
- 19088914007. 3
- 19088914008. 4

**Question Number : 28 Question Id : 1908893526 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is **NOT** a major source of methane?

- (1) Landfills
- (2) Mountain rivers
- (3) Rice Agriculture Fields
- (4) Wetlands

**Options :**

- 19088914009. 1
- 19088914010. 2
- 19088914011. 3
- 19088914012. 4

**Question Number : 29 Question Id : 1908893527 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Decibel is the unit of

- (1) Sound pressure level
- (2) Sound pressure
- (3) Loudness
- (4) Loudness Level

**Options :**

- 19088914013. 1
- 19088914014. 2
- 19088914015. 3
- 19088914016. 4

**Question Number : 30 Question Id : 1908893528 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Among the following aquatic ecosystems, which one has the highest net primary productivity?

- |                 |                       |
|-----------------|-----------------------|
| (1) Open Oceans | (2) Continental Shelf |
| (3) Estuaries   | (4) Streams           |

**Options :**

19088914017. 1

19088914018. 2

19088914019. 3

19088914020. 4

**Question Number : 31 Question Id : 1908893529 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is NOT the characteristic of early successional plant communities?

- |                         |                                |
|-------------------------|--------------------------------|
| (1) They are colonizers | (2) They are competitors       |
| (3) They grow rapidly   | (4) They have a short lifespan |

**Options :**

19088914021. 1

19088914022. 2

19088914023. 3

19088914024. 4

**Question Number : 32 Question Id : 1908893530 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



When ecological succession is initiated in saline environment, it is called:

- |                |              |
|----------------|--------------|
| (1) Psammosere | (2) Halosere |
| (3) Lithosere  | (4) Xerosere |

**Options :**

19088914025. 1

19088914026. 2

19088914027. 3

19088914028. 4

**Question Number : 33 Question Id : 1908893531 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following atmospheric constituents has a relatively variable concentration within the troposphere?

- |              |                 |
|--------------|-----------------|
| (1) Nitrogen | (2) Oxygen      |
| (3) Argon    | (4) Water Vapor |

**Options :**

19088914029. 1

19088914030. 2

19088914031. 3

19088914032. 4

**Question Number : 34 Question Id : 1908893532 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following types of bacteria are involved in the process of Denitrification?

- |                 |                      |
|-----------------|----------------------|
| (1) Nitrobacter | (2) Nitrosomonas     |
| (3) Pseudomonas | (4) All of the above |

**Options :**

19088914033. 1

19088914034. 2

19088914035. 3

19088914036. 4

**Question Number : 35 Question Id : 1908893533 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is not an example of Persistent Organic Pollutants (POPs)?

- |                                   |                               |
|-----------------------------------|-------------------------------|
| (1) Polybrominated diphenyl ether | (2) Isoprene                  |
| (3) Phthalates                    | (4) Perfluorooctane sulfonate |

**Options :**

19088914037. 1

19088914038. 2

19088914039. 3

19088914040. 4

**Question Number : 36 Question Id : 1908893534 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

When a plume of smoke is released in a stable atmospheric layer, which of the following types of plume behaviour would be observed?

- |                   |                   |
|-------------------|-------------------|
| (1) Fanning Plume | (2) Coning Plume  |
| (3) Looping Plume | (4) Lofting Plume |

**Options :**

19088914041. 1

19088914042. 2

19088914043. 3

19088914044. 4

**Question Number : 37 Question Id : 1908893535 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following gaseous constituents CANNOT be regarded as precursor of tropospheric ozone?

- (1) Carbon monoxide (CO)                      (2) Oxides of Nitrogen ( $\text{NO}_x = \text{NO} + \text{NO}_2$ )  
(3) Volatile Organic Compounds (VOCs)    (4) Sulphur dioxide ( $\text{SO}_2$ )

**Options :**

19088914045. 1

19088914046. 2

19088914047. 3

19088914048. 4

**Question Number : 38 Question Id : 1908893536 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

A stream of water 'B' is flowing at a rate  $25 \text{ m}^3/\text{s}$ . Another stream 'C' flowing at a rate  $10 \text{ m}^3/\text{s}$  joins with it. Concentration of a pollutant 'X' in stream B is  $15 \text{ mg/L}$  and in stream C is  $50 \text{ mg/L}$ . Treating X as a conservative substance, and assuming complete mixing of the two streams, the concentration of the pollutant X, downstream of the point of mixing between the two streams, will be

- (1)  $13.5 \text{ mg/L}$                                       (2)  $25 \text{ mg/L}$   
(3)  $32.5 \text{ mg/L}$                                       (4)  $35 \text{ mg/L}$

**Options :**

19088914049. 1

19088914050. 2

19088914051. 3

19088914052. 4

**Question Number : 39 Question Id : 1908893537 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In the context of a lake, a transition layer in which temperature drops rather quickly is called:

- |                 |                  |
|-----------------|------------------|
| (1) Thermocline | (2) Epilimnion   |
| (3) Hypolimnion | (4) Hyperlimnion |

**Options :**

- 19088914053. 1
- 19088914054. 2
- 19088914055. 3
- 19088914056. 4

**Question Number : 40 Question Id : 1908893538 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Earth derived building materials such as bricks, concrete and tiles can be the source of which of the following indoor air pollutants?

- |                     |                      |
|---------------------|----------------------|
| (1) Ozone           | (2) Radon            |
| (3) Carbon monoxide | (4) Nitrogen dioxide |

**Options :**

- 19088914057. 1
- 19088914058. 2
- 19088914059. 3
- 19088914060. 4

**Question Number : 41 Question Id : 1908893539 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Shannon-Wiener index is used as a measure of which of the following?

- |                     |                     |
|---------------------|---------------------|
| (1) Noise Pollution | (2) Loudness        |
| (3) Biodiversity    | (4) Acoustic Energy |

**Options :**

19088914061. 1

19088914062. 2

19088914063. 3

19088914064. 4

**Question Number : 42 Question Id : 1908893540 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following statements about *Methemoglobinemia*

- (A) It is caused by methane poisoning.
- (B) It leads to decreased availability of oxygen to tissues.
- (C) It results from the presence of iron in the blood in the ferric form.

Identify the correct statements from those given above. Choose the most appropriate option.

- (1) A and B only
- (2) B and C only
- (3) A and C only
- (4) A, B and C

**Options :**

19088914065. 1

19088914066. 2

19088914067. 3

19088914068. 4

**Question Number : 43 Question Id : 1908893541 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following types of coals:

- A. Anthracite
- B. Bituminous
- C. Lignite

Identify the correct sequence of above coals in terms of carbon percentage

- (1) A>B>C
- (2) B>A>C
- (3) B>C>A
- (4) A>C>B

**Options :**

19088914069. 1

19088914070. 2

19088914071. 3

19088914072. 4

**Question Number : 44 Question Id : 1908893542 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following gases:

(A)  $\text{CH}_4$

(B)  $\text{NO}_2$

(C)  $\text{NH}_3$

(D)  $\text{H}_2\text{S}$

Which among the above gases would be released in an anaerobic process?

(1) (A), (B) and (C) only

(2) (B), (C) and (D) only

(3) (A), (C) and (D) only

(4) (A), (B) and (D) only

**Options :**

19088914073. 1

19088914074. 2

19088914075. 3

19088914076. 4

**Question Number : 45 Question Id : 1908893543 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following statements:

- (A) Dissolved oxygen of a water body without aquatic life is expected to be high when its temperature is low
- (B) Biochemical Oxygen Demand is always greater than the Chemical Oxygen Demand
- (C) The transfer of oxygen from the atmosphere to a water body is dependent on the dissolved oxygen deficit in the water body

Identify the correct statements from those given above

- (1) (A) and (B) only
- (2) (B) and (C) only
- (3) (A) and (C) only
- (4) (A), (B) and (C)

**Options :**

19088914077. 1

19088914078. 2

19088914079. 3

19088914080. 4

**Question Number : 46 Question Id : 1908893544 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following statements regarding the energy production in a nuclear power plant is correct?

- (1) Energy is produced from the process of nuclear fusion
- (2) Energy is produced from the process of nuclear fission with uncontrolled chain reaction
- (3) Energy is produced from the process of nuclear fission with controlled chain reaction
- (4) Energy is produced from the process of cold fusion

**Options :**

19088914081. 1

19088914082. 2

19088914083. 3

19088914084. 4

**Question Number : 47 Question Id : 1908893545 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following statements:

- (A) Los Angeles Smog / Photochemical Smog is reducing in nature
- (B) London Smog / Classical smog is reducing in nature
- (C) Sulphur dioxide is a key ingredient of the London Smog / Classical Smog

Identify the correct statements from those given above

- (1) A and B only
- (2) B and C only
- (3) A and C only
- (4) A, B and C

**Options :**

19088914085. 1

19088914086. 2

19088914087. 3

19088914088. 4

**Question Number : 48 Question Id : 1908893546 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following statements regarding direct impacts of rise in carbon dioxide levels :

- (A) Increase in carbon dioxide levels in the atmosphere will lead to increase in the rate of photosynthesis
- (B) Increase in carbon dioxide levels in the atmosphere will cause a net transfer of carbon dioxide from the atmosphere to the oceans
- (C) Increase in the carbon dioxide levels will lead to a rise in the global average temperature of earth

Identify the correct statements from those given above

- (1) A and B only
- (2) B and C only
- (3) A and C only
- (4) A, B and C

**Options :**

19088914089. 1

19088914090. 2



19088914091. 3

19088914092. 4

**Question Number : 49 Question Id : 1908893547 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match List I with List II

List I	List II
CAUSES	DISEASES
(A) VIRAL INFECTION	(I) Typhoid
(B) BACTERIAL INFECTION	(II) Pneumocystis pneumonia
(C) PROTOZOAL INFECTION	(III) Poliomyelitis
(D) FUNGAL INFECTION	(IV) Amoebic dysentery

Choose the correct answer from the options given below:

- (1) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)
- (2) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (3) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (4) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

**Options :**

19088914093. 1

19088914094. 2

19088914095. 3

19088914096. 4

**Question Number : 50 Question Id : 1908893548 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Out of the following, which of the altitudes in the atmosphere would have the maximum concentration of ozone?

- (1) 5 to 10 km
- (2) 10 to 15 km
- (3) 25 to 30 km
- (4) 40 to 45 km

**Options :**

19088914097. 1

19088914098. 2

19088914099. 3

19088914100. 4

**Question Number : 51 Question Id : 1908893549 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is the smallest reservoir of carbon in the Earth system?

- |                       |                  |
|-----------------------|------------------|
| (1) Terrestrial Biota | (2) Marine Biota |
| (3) Atmosphere        | (4) Soils        |

**Options :**

19088914101. 1

19088914102. 2

19088914103. 3

19088914104. 4

**Question Number : 52 Question Id : 1908893550 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

An interaction in which one organism benefits from the relationship without causing benefit or harm to the other organism, is called

- |                  |                |
|------------------|----------------|
| (1) Symbiosis    | (2) Mutualism  |
| (3) Commensalism | (4) Parasitism |

**Options :**

19088914105. 1

19088914106. 2

19088914107. 3

19088914108. 4

**Question Number : 53 Question Id : 1908893551 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The Ramsar Convention is about the conservation of

- |                              |                           |
|------------------------------|---------------------------|
| (1) Mountain flora and fauna | (2) Wetlands              |
| (3) Desert Flora and Fauna   | (4) Tropical Rain Forests |

**Options :**

19088914109. 1

19088914110. 2

19088914111. 3

19088914112. 4

**Question Number : 54 Question Id : 1908893552 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following statements about the disease Schistosomiasis is correct?

- (1) This is an air-borne disease caused by a virus
- (2) This is an air-borne disease caused by a bacteria
- (3) This is a water borne disease caused by a bacteria
- (4) This is a water borne disease caused by parasitic worms

**Options :**

19088914113. 1

19088914114. 2

19088914115. 3

19088914116. 4

**Question Number : 55 Question Id : 1908893553 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Coal is found in which of the following types of rocks?

- |                 |                      |
|-----------------|----------------------|
| (1) Igneous     | (2) Sedimentary      |
| (3) Metamorphic | (4) All of the above |

**Options :**

19088914117. 1

19088914118. 2

19088914119. 3

19088914120. 4

**Question Number : 56 Question Id : 1908893554 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Within the stratosphere, the rate of change of temperature with altitude is:

- |              |             |
|--------------|-------------|
| (1) Negative | (2) Zero    |
| (3) Positive | (4) - 6.5°C |

**Options :**

19088914121. 1

19088914122. 2

19088914123. 3

19088914124. 4

**Question Number : 57 Question Id : 1908893555 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is not a micronutrient for plants?

- |               |            |
|---------------|------------|
| (1) Magnesium | (2) Iron   |
| (3) Manganese | (4) Copper |

**Options :**

19088914125. 1

19088914126. 2

19088914127. 3

19088914128. 4

**Question Number : 58 Question Id : 1908893556 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The book "Our Common Future" is famous for which one of the following?

- (1) The principle of common but differentiated responsibility
- (2) The concept of Sustainable Development
- (3) The conservation of wildlife
- (4) The Gaia Hypothesis

**Options :**

19088914129. 1

19088914130. 2

19088914131. 3

19088914132. 4

**Question Number : 59 Question Id : 1908893557 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following statements about trade winds is correct?

- (1) These winds blow predominantly from the *northeast* in the Northern Hemisphere and from the *southeast* in the Southern Hemisphere.
- (2) These winds blow predominantly from the *northeast* in the Northern Hemisphere and from the *southwest* in the Southern Hemisphere.
- (3) These winds blow predominantly from the *northwest* in the Northern Hemisphere and from the *southeast* in the Southern Hemisphere.
- (4) These winds blow predominantly from the *northwest* in the Northern Hemisphere and from the *southwest* in the Southern Hemisphere.

**Options :**

19088914133. 1

19088914134. 2

19088914135. 3

19088914136. 4

**Question Number : 60 Question Id : 1908893558 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Vernalization is method of inducing early flowering by pre-treatment of seeds with

(1) Less daylight

(2) Low temperature

(3) Low humidity

(4) Endophytes

**Options :**

19088914137. 1

19088914138. 2

19088914139. 3

19088914140. 4

**Question Number : 61 Question Id : 1908893559 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match List I with List II

List I

List II

(A) DNA ligase

(B) DNA gyrase

(C) DNA polymerase

(D) DNA helicase

(I) DNA synthesis

(II) Seals nicks in DNA

(III) Unwinds DNA

(IV) Replaces supercoils

Choose the correct answer from the options given below:

(1) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)

(2) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)

(3) (A)-(III), (B)-(I), (C)-(II), (D)-(IV)

(4) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)

**Options :**

19088914141. 1

19088914142. 2

19088914143. 3

19088914144. 4

**Question Number : 62 Question Id : 1908893560 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Characteristic orange colour of carotenoids is due to absorption bands in which of the following regions of electromagnetic spectrum?

(1) 300 nm - 400 nm

(2) 400 nm - 500 nm

(3) 500 nm - 600 nm

(4) 600 nm - 700 nm

**Options :**

19088914145. 1

19088914146. 2

19088914147. 3

19088914148. 4

**Question Number : 63 Question Id : 1908893561 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements

Statement I: Skeletal muscles are made up of myofibrils that are arranged in sections called sarcomeres.

Statement II: In each sarcomere, the thin filaments are located centrally while the thick filaments are present at the two ends.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is true but Statement II is false
- (4) Statement I is false but Statement II is true

**Options :**

19088914149. 1

19088914150. 2

19088914151. 3

19088914152. 4

**Question Number : 64 Question Id : 1908893562 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In cladistics studies, the ancestral characters common to all members of a group indicate a shared ancestry. These characters are called

- (1) Apomorphies
- (2) Symplesiomorphies
- (3) Synapomorphies
- (4) Apoplesiomorphies

**Options :**

19088914153. 1

19088914154. 2



19088914155. 3

19088914156. 4

**Question Number : 65 Question Id : 1908893563 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The present magnitude of green house effect on earth is estimated to be about:

(1) 15°C

(2) 33°C

(3) 70°C

(4) 5°C

**Options :**

19088914157. 1

19088914158. 2

19088914159. 3

19088914160. 4

**Question Number : 66 Question Id : 1908893564 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The shallow water zone around the edge of a water body which supports rooted vegetation is called

(1) Limnetic zone

(2) Littoral zone

(3) Profundal zone

(4) Benthic zone

**Options :**

19088914161. 1

19088914162. 2

19088914163. 3

19088914164. 4

**Question Number : 67 Question Id : 1908893565 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following are qualitative characters for measuring a plant community?

- (A) Species composition
- (B) Density
- (C) Stratification of vegetation
- (D) Biomass
- (E) Leaf size

Choose the *correct* answer from the options given below:

- (1) A, C and E only
- (2) B and D only
- (3) B, C and E only
- (4) A and C only

**Options :**

19088914165. 1

19088914166. 2

19088914167. 3

19088914168. 4

**Question Number : 68 Question Id : 1908893566 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Biosafety level 1 (BSL 1) laboratories represent the ultimate in our ability to contain aerosolization of pathogenic microorganisms.

**Reason R:** There are essentially four levels of biohazard control to designate biosafety level of microbiological laboratories.

In the light of the above statements, choose the *most appropriate* answer from the options given below

- (1) Both A and R are correct and R is the correct explanation of A
- (2) Both A and R are correct, but R is NOT the correct explanation of A
- (3) A is correct, but R is not correct
- (4) A is not correct, but R is correct

**Options :**

19088914169. 1

19088914170. 2

19088914171. 3

19088914172. 4

**Question Number : 69 Question Id : 1908893567 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Arrange the following steps in the ascending order for gene cloning

- (A) Identification of the clone containing the gene of interest.
- (B) Isolation of DNA fragments.
- (C) Selection of transformed host cells.
- (D) Insertion of DNA fragment into a suitable vector.
- (E) Introduction of recombinant DNA into a suitable host.

Choose the correct answer from the options given below

- (1) B,D,E,C,A
- (2) C,D,E,A,B
- (3) E,D,C,A,B
- (4) E,D,C,B,A

**Options :**

19088914173. 1

19088914174. 2

19088914175. 3

19088914176. 4

**Question Number : 70 Question Id : 1908893568 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Current levels of carbon dioxide in the earth's atmosphere are:

- (1) Less than 300 ppm
- (2) Between 300 ppm to 325 ppm
- (3) Between 325 ppm to 350 ppm
- (4) More than 400 ppm

**Options :**

19088914177. 1

19088914178. 2

19088914179. 3

19088914180. 4

**Question Number : 71 Question Id : 1908893569 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Arrange the following parts of a nephron in the order in which they change the character of glomerular filtrate and convert it into urine, beginning with the first.

- (A) Collecting tubule
- (B) Distal Convoluted tubule
- (C) Descending limb of the loop of Henle
- (D) Proximal convoluted tubule
- (E) Ascending limb of the loop of Henle

Choose the correct answer from the options given below

- (1) B, D, E, C, A
- (2) D, C, E, B, A
- (3) E, D, C, A, B
- (4) E, D, C, B, A

**Options :**

- 19088914181. 1
- 19088914182. 2
- 19088914183. 3
- 19088914184. 4

**Question Number : 72 Question Id : 1908893570 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements

Statement I: Phase contrast microscopy results in a dark image on a light background.

Statement II: In the dark-field microscopy the light passes through the specimen and therefore, the specimen appears light on a dark background.

In the light of the above statements, choose the correct answer from the options given below

- (1) Both Statement I and Statement II are true.
- (2) Both Statement I and Statement II are false.
- (3) Statement I is true but Statement II is false.
- (4) Statement I is false but Statement II is true

**Options :**

- 19088914185. 1
- 19088914186. 2
- 19088914187. 3

19088914188. 4

**Question Number : 73 Question Id : 1908893571 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Brittle stars belong to which class in Phylum Echinodermata

- |                 |                |
|-----------------|----------------|
| (1) Crinoidea   | (2) Asteroidea |
| (3) Ophiuroidea | (4) Echinoidea |

**Options :**

19088914189. 1

19088914190. 2

19088914191. 3

19088914192. 4

**Question Number : 74 Question Id : 1908893572 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Who among the following attributed human intellectual functions and the ability to make moral judgments to evolution?

- |                            |                             |
|----------------------------|-----------------------------|
| (1) Alfred Russell Wallace | (2) Charles Darwin          |
| (3) Jean Baptiste Lamarck  | (4) Pierre Louis Maupertuis |

**Options :**

19088914193. 1

19088914194. 2

19088914195. 3

19088914196. 4

**Question Number : 75 Question Id : 1908893573 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Rubisco, is an enzyme that catalyses which among the following?

- (A) De-carboxylation
- (B) Carboxylation
- (C) De-oxygenation
- (D) Oxygenation

Choose the correct answer from the options given below:

- (1) A and D only
- (2) A and C only
- (3) B and D only
- (4) B and C only

**Options :**

- 19088914197. 1
- 19088914198. 2
- 19088914199. 3
- 19088914200. 4

**Question Number : 76 Question Id : 1908893574 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In the troposphere, carbon monoxide has a chemical lifetime of :

- (1) 30 to 90 days
- (2) 2 to 5 hours
- (3) 1 to 2 years
- (4) 10 to 15 years

**Options :**

- 19088914201. 1
- 19088914202. 2
- 19088914203. 3
- 19088914204. 4

**Question Number : 77 Question Id : 1908893575 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Earthworms can be grouped according to their burrowing habits and habitats. Which of the following earthworms make vertical, permanent burrows in subsurface soils?

- (1) Epigeic earthworms                      (2) Acnecic earthworms  
(3) Endogeic earthworms                    (4) Peizogeic earthworms

**Options :**

19088914205. 1  
19088914206. 2  
19088914207. 3  
19088914208. 4

**Question Number : 78 Question Id : 1908893576 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following statements:

- (A) The inner core of the earth is liquid  
(B) The outer core of the earth is liquid  
(C) Rocks in the mantle are primarily iron- and magnesium-rich silicates

Identify the correct statements from those given above. Choose the most appropriate option.

- (1) A and B only                              (2) B and C only  
(3) A and C only                              (4) A, B and C

**Options :**

19088914209. 1  
19088914210. 2  
19088914211. 3  
19088914212. 4

**Question Number : 79 Question Id : 1908893577 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Consider the following statements:

- (A) At subduction zones, crust is destroyed
- (B) In mid-oceanic ridges regions, new crust is continuously added to the edges of lithospheric plates
- (C) The mid-oceanic ridges generally form along the convergent plate boundaries

Identify the correct statements from those given above. Choose the most appropriate option.

- (1) A and B only
- (2) B and C only
- (3) A and C only
- (4) A, B and C

**Options :**

19088914213. 1

19088914214. 2

19088914215. 3

19088914216. 4

**Question Number : 80 Question Id : 1908893578 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following Indian states is the richest in Bauxite reserve/resources?

- (1) Gujarat
- (2) Andhra Pradesh
- (3) Odisha
- (4) Jharkhand

**Options :**

19088914217. 1

19088914218. 2

19088914219. 3

19088914220. 4

**Question Number : 81 Question Id : 1908893579 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which among the following has the least ozone depleting potential?

- |                       |                                     |
|-----------------------|-------------------------------------|
| (1) CH <sub>4</sub>   | (2) CFC <sub>3</sub>                |
| (3) CHCl <sub>3</sub> | (4) CF <sub>2</sub> Cl <sub>2</sub> |

**Options :**

19088914221. 1

19088914222. 2

19088914223. 3

19088914224. 4

**Question Number : 82 Question Id : 1908893580 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is soluble in water?

- |  |         |
|--|---------|
| (1) (CH <sub>3</sub> ) <sub>2</sub> Hg | (2) PbS |
| (3) Hg                                 | (4) Pb  |

**Options :**

19088914225. 1

19088914226. 2

19088914227. 3

19088914228. 4

**Question Number : 83 Question Id : 1908893581 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is NOT a principle of green chemistry?

- |                                 |                                |
|---------------------------------|--------------------------------|
| (1) Use of renewable feedstocks | (2) Designing safer chemicals  |
| (3) Atom economy                | (4) Shifting to nuclear energy |

**Options :**

19088914229. 1

19088914230. 2

19088914231. 3

19088914232. 4

**Question Number : 84 Question Id : 1908893582 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Slightly acidic pH of natural rainwater is due to

- |                                    |                                    |
|------------------------------------|------------------------------------|
| (1) Dissolution of NO <sub>2</sub> | (2) Dissolution of CO <sub>2</sub> |
| (3) Dissolution of CO              | (4) Dissolution of SO <sub>2</sub> |

**Options :**

19088914233. 1

19088914234. 2

19088914235. 3

19088914236. 4

**Question Number : 85 Question Id : 1908893583 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is NOT a global biodiversity hot-spot?

- |                   |                   |
|-------------------|-------------------|
| (1) Himalayas     | (2) Western Ghats |
| (3) Eastern Ghats | (4) Sundaland     |

**Options :**

19088914237. 1

19088914238. 2

19088914239. 3

19088914240. 4

**Question Number : 86 Question Id : 1908893584 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following disease is not caused by contamination of drinking water?

- |                        |                |
|------------------------|----------------|
| (1) Blue-baby syndrome | (2) Fluorosis  |
| (3) Colic dysentery    | (4) Dermatitis |

**Options :**

- 19088914241. 1
- 19088914242. 2
- 19088914243. 3
- 19088914244. 4

**Question Number : 87 Question Id : 1908893585 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which among the following has the maximum density?

- |            |          |
|------------|----------|
| (1) Lead   | (2) Iron |
| (3) Copper | (4) Zinc |

**Options :**

- 19088914245. 1
- 19088914246. 2
- 19088914247. 3
- 19088914248. 4

**Question Number : 88 Question Id : 1908893586 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The magnification of an eye-piece in a standard microscope is

- |            |           |
|------------|-----------|
| (1) 100 x  | (2) 10 x  |
| (3) 1000 x | (4) 500 x |

**Options :**

- 19088914249. 1
- 19088914250. 2
- 19088914251. 3

19088914252. 4

**Question Number : 89 Question Id : 1908893587 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following has maximum fraction in municipal solid waste?

- |                |               |
|----------------|---------------|
| (1) Paper      | (2) Polythene |
| (3) Food waste | (4) Glass     |

**Options :**

19088914253. 1

19088914254. 2

19088914255. 3

19088914256. 4

**Question Number : 90 Question Id : 1908893588 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Ice floats on the surface of water.

Reason R: Its density is less than that of water.

In the light of the above statements, choose the *most appropriate* answer from the options given below.

- (1) Both A and R are correct and R is the correct explanation of A
- (2) Both A and R are correct, but R is NOT the correct explanation of A
- (3) A is correct, but R is not correct
- (4) A is not correct, but R is correct

**Options :**

19088914257. 1

19088914258. 2

19088914259. 3

19088914260. 4

Question Number : 91 Question Id : 1908893589 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Water vapors contribute to the greenhouse effect.

Reason R: Water vapors have absorption bands in the long wave region.

In the light of the above statements, choose the *most appropriate* answer from the options given below.

- (1) Both A and R are correct and R is the correct explanation of A
- (2) Both A and R are correct, but R is NOT the correct explanation of A
- (3) A is correct, but R is not correct
- (4) A is not correct, but R is correct

Options :

19088914261. 1

19088914262. 2

19088914263. 3

19088914264. 4

Question Number : 92 Question Id : 1908893590 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I - Biomolecule

- A. Carbohydrates
- B. Lipids
- C. DNA
- D. Enzymes

List II - Function

- I. Stores the genetic code
- II. Catalyze biochemical reactions
- III. Provide the energy
- IV. Formation of cell-membrane

Choose the correct option

- (1) A-I, B-III, C-II, D-IV
- (2) A-III, B-IV, C-I, D-II
- (3) A-IV, B-III, C-I, D-II
- (4) A-III, B-I, C-II, D-IV

Options :

19088914265. 1

19088914266. 2

19088914267. 3

19088914268. 4

**Question Number : 93 Question Id : 1908893591 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Any substance capable of causing malformation during development of the fetus is called:

- |               |                |
|---------------|----------------|
| (1) Promoter  | (2) Inhibitor  |
| (3) Teratogen | (4) Carcinogen |

**Options :**

19088914269. 1

19088914270. 2

19088914271. 3

19088914272. 4

**Question Number : 94 Question Id : 1908893592 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following statements about spectrophotometry

- (A) Absorbance is directly proportional to the concentration of analyte
- (B) Transmittance is a dimensionless quantity
- (C) If absorbance is 2, transmittance is 98%

Identify the correct statement(s) from those given above. Choose the most appropriate option

- |                  |                  |
|------------------|------------------|
| (1) A only       | (2) A and B only |
| (3) A and C only | (4) B and C only |

**Options :**

19088914273. 1

19088914274. 2

19088914275. 3

19088914276. 4

**Question Number : 95 Question Id : 1908893593 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following organisms:

- (A) *Salmonella typhi*
- (B) *E. coli*
- (C) *Vibrio cholera*
- (D) *Aspergillus flavus*

Which among the above cause water borne diseases? Choose the most appropriate option

- (1) A and D only
- (2) B and D only
- (3) A, B and C only
- (4) A, B and D only

**Options :**

19088914277. 1

19088914278. 2

19088914279. 3

19088914280. 4

**Question Number : 96 Question Id : 1908893594 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following statements about High Pressure Liquid Chromatography:

- (A) It is a non-destructive technique.
- (B) Reverse Phase HPLC is useful for the separation of organic compounds.
- (C) The mobile phase in the Reverse Phase HPLC is polar in nature.

Identify the correct statement(s) from those given above. Choose the most appropriate option

- (1) A only
- (2) B only
- (3) A and B only
- (4) A, B and C

**Options :**

19088914281. 1

19088914282. 2

19088914283. 3

19088914284. 4



Question Number : 97 Question Id : 1908893595 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Consider the following:

- (A) Carbon-14
- (B) Cobalt-60
- (C) Calcium-40
- (D) Chromium-52

Which among the above are radioisotopes?

- (1) A and C only
- (2) B and C only
- (3) A and B only
- (4) C and D only

Options :

19088914285. 1

19088914286. 2

19088914287. 3

19088914288. 4

Question Number : 98 Question Id : 1908893596 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Arrange the following practices as per the hierarchy of waste management

- (A) Disposal in landfill
- (B) Reuse
- (C) Treatment
- (D) Recycle

Choose the correct option

- (1) C, A, B, D
- (2) B, C, D, A
- (3) B, D, C, A
- (4) C, B, D, A

Options :

19088914289. 1

19088914290. 2

19088914291. 3

19088914292. 4

**Question Number : 99 Question Id : 1908893597 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following disease is NOT caused by contamination of drinking water?

- |                        |                |
|------------------------|----------------|
| (1) Blue-baby syndrome | (2) Fluorosis  |
| (3) Colic dysentery    | (4) Dermatitis |

**Options :**

19088914293. 1

19088914294. 2

19088914295. 3

19088914296. 4

**Question Number : 100 Question Id : 1908893598 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Combining two complementary single-stranded DNA or RNA molecules and allowing them to form a single double-stranded molecule through base pairing is called

- |                       |                     |
|-----------------------|---------------------|
| (1) Southern blotting | (2) Hybridization   |
| (3) Gene sequencing   | (4) Gene expression |

**Options :**

19088914297. 1

19088914298. 2

19088914299. 3

19088914300. 4