ENVIRONMENTAL STUDIES

Paper–B23–VAC–201

Time Allowed : 3 Hours]   [Maximum Marks : 35

Note : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

प्रत्येक इकाई में से **एक** प्रश्न का चयन करते हुए, कुल **पाँच** प्रश्नों के उत्तर दीजिए। प्रश्न संख्या **1** अनिवार्य है। सभी प्रश्नों के अंक समान हैं।

Compulsory Question (अनिवार्य प्रश्न)

1. Define the following :   7×1=7

    निम्नलिखित को परिभाषित कीजिए:

    (a) Importance of Environmental studies.

    पर्यावरण अध्ययन का महत्व।

    (b) Renewable energy sources.

    नवीकरणीय ऊर्जा स्रोत।

    (c) Endangered species.

    लुप्तप्राय प्रजातियां।

बताइये कि मानव जनसंख्या वृद्धि पर्यावरण और मानव स्वास्थ्य को किस प्रकार प्रभावित करती है?

9. Write down the causes and management strategies of Landslides.   7

भूस्खलन के कारण और प्रबंधन रणनीतियों को लिखिए।

(d) Primary and Secondary pollutants.

प्राथमिक और द्वितीयक प्रदूषक।

(e) Ozone layer.

ओज़ोन की परत।

(f) Disaster management.

आपदा प्रबंधन।

(g) Types of Disasters.

आपदाओं के प्रकार।

UNIT–I (इकाई–I)

2. Describe the structure and function of a Desert ecosystem with example. 7

रेगिस्तानी पारिस्थितिकी तंत्र की संरचना और कार्य का उदाहरण सहित वर्णन कीजिए।

3. Write descriptive notes on the following : 2×3½=7

निम्नलिखित पर वर्णनात्मक टिप्पणियाँ लिखिए:

(a) Energy flow in an Ecosystem.

पारिस्थितिकी तंत्र में ऊर्जा प्रवाह।

(b) Sustainability and Sustainable development.

स्थिरता एवं सतत विकास।

UNIT–II (इकाई–II)

4. Explain different methods of *ex-situ* biodiversity conservation. 7

बाह्य-स्थल जैवविविधता संरक्षण के विभिन्न तरीकों की व्याख्या कीजिए।

5. Describe different types of Water resources present in India. 7

भारत में मौजूद विभिन्न प्रकार के जल संसाधनों का वर्णन कीजिए।

UNIT–III (इकाई–III)

6. Explain the Phenomenon and impacts of Global warming. 7

ग्लोबल वार्मिंग की परिघटना और प्रभावों की व्याख्या कीजिए।

7. Write down the causes and health effects of Noise pollution. 7

ध्वनि प्रदूषण के कारण और स्वास्थ्य पर पड़ने वाले प्रभावों को लिखिए।

UNIT–IV (इकाई–IV)

8. Describe how Human population growth impact Environment and Human health? 7

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NBCA/M–25

OBJECT ORIENTED PROGRAMMING USING C++

Paper–B23–CAP/CTS/CAL/CDS–201

(CC–A2)

Time : 3 Hours]

[Maximum Marks : 50

Note : Attempt **five** questions in all, selecting at least **one** question from each unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Differentiate between following :

   (i) Private and public member.

   (ii) Multiple and Multilevel Inheritance.

   (iii) Abstract and Virtual Class.

   (iv) Protected access specifier.

   (v) Run-Time and Compile-Time Polymorphism.

   (5×2=10)

UNIT–I

2. What are the formatted and unformatted input-output functions with appropriate examples? (10)

     2   [P. T. O.

3.   Differentiate between the following :

    (a)   Structure and union.

    (b)   Call by value and call by reference.   (10)

UNIT–II

4.   (a)   Describe static data members and static member function with suitable example.   (5)

    (b)   What is Destructor? State different rules needed to be considered while defining a destructor for a given class.   (5)

5.   (a)   Explain scope resolution operator and its significance with suitable example.   (5)

    (b)   What is Constructor Overloading? Explain with example program.   (5)

UNIT–III

6.   What is inheritance? Explain various types of inheritance with suitable example.   (10)

7.   What do you mean by operator overloading? Explain how binary operator is overloaded with suitable example.   (10)

UNIT–IV

8.   Explain the concept of Exception handling in C++ with suitable example.   (10)

9.   What is virtual function? Explain its significance. Write program in C++ using virtual function.   (10)

Roll No. ....   Total Pages : 2

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NBCA/M–25

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