

[This question paper contains 4 printed pages.]

Your Roll No.....

No. of Question Paper : 7525

Unique Paper Code : 61018208

Name of the Paper : Karyalayee Hindi

Name of the Course : B.Voc. (Printing Technology/
Retail Management & IT/
Healthcare Management) (GEC-
2.2)

Semester : II

Duration : 3 Hours

Maximum Marks : 75

9

Instructions for Candidates

Write your Roll No. on the top immediately on receipt of this question paper.

Attempt all questions.

Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

निर्देशों के लिए निर्देश

इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।

सभी प्रश्नों के उत्तर दीजिए।

इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए।

P.T.O.

1. कार्यालयी हिन्दी की विशेषताएं बताते हुए उसके कार्यक्षेत्र बताएं।

अथवा

सामान्य हिन्दी तथा कार्यालयी हिन्दी में क्या अंतर है? उदाहरण सहित समझाएं।

(10)

2. एक अच्छे कार्यालयी पत्र की विशेषताएं बताते हुए किन्हीं दो के स्वरूप विचार कीजिए।

अथवा

आवेदन-लेखन की विशेषताएं स्पष्ट करने हेतु उनके विभिन्न प्रकारों बताइये।

(10)

3. टिप्पण की विशेषताएं बताते हुए उसकी उपयोगिता एवं महत्त्व स्पष्ट कीजिए।

अथवा

संक्षेपण से क्या अभिप्राय है? इससे मिलती जुलती अन्य यह कैसे अलग स्पष्ट कीजिए।

4. निम्नलिखित में किन्हीं दो पर टिप्पणी लिखिए:-

(क) प्रारूपण की विशेषताएं

(ख) कार्यालयी हिन्दी की स्थिति

(ग) हिन्दी अधिकारी की नियुक्ति हेतु विज्ञापन तैयार कीजिए

(घ) मैनेजर के पद हेतु आवेदन पत्र लिखिए।

(10, 10)

(क) किन्हीं पांच औपचारिक अभिव्यक्तियों के हिन्दी प्रतिरूप लिखिए: - (5,5)

(i) Accepted for payment

(ii) Charge handed over

(iii) Day to day administrative work

(iv) Do the needful

(v) Follow up action

(vi) I have the honor to say

(vii) No further action is called for

(viii) Please circulate and file.

(ix) Seen and returned with thanks

(x) We have no remarks to offer

(ख) किन्हीं पांच पारिभाषिक शब्दावली के हिन्दी प्रतिरूप लिखिए: -

(i) Audience

(ii) Bonafide

- (iii) Charge
- (iv) Compensation
- (v) Direction
- (vi) Endorsement
- (vii) Guaranty
- (viii) Image
- (ix) Account Section
- (x) General Manager

[This question paper contains 2 printed pages.]

Your Roll No.....

No. of Question Paper : 7526
Unique Paper Code : 61018209
Name of the Paper : Soft Skills
Name of the Course : B.Voc. (Printing Technology, Web Designing) (GEC-2.3)
Semester : II
Duration : 3 Hours
Maximum Marks : 50

Instructions for Candidates

- Write your Roll No. on the top immediately on receipt of this question paper.
- The paper has **two** Sections : **A** and **B**.
- Section **A** has **two** questions; Section **B** has **four** questions.

Section A

(10×2=20)

Answer all two questions.

What do you understand by 'Soft Skills' ? Give a reasoned answer.

OR

How is listening different from hearing ? Illustrate with suitable examples.

P.T.O.

2. What is team work? What are the skills required to work in a team?

OR

Flexibility is a desirable attribute in any person. Discuss.

Section B

(15×2=)

Attempt any two of the following.

1. What, according to you, are the most important values that one needs to demonstrate as a leader? Illustrate with appropriate examples.
2. If a team is divided on certain issues, how will you bring a sense of unity among the team members to achieve your target goals?
3. What is adaptability? How is adaptability a survival skill for any organization?
4. Understanding our emotions and those of others is very useful in developing effective communication skills. Do you agree? Give a reasoned answer.

This question paper contains 6 printed pages.]

Your Roll No.....

No. of Question Paper : 7528

Unique Paper Code : 61018217

Name of the Paper : Web Designing

Name of the Course : B.Voc. (Internet and Java Programming (GEC-2.2)

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

Write your Roll No. on the top immediately on receipt of this question paper.

Attempt any **Seven** questions.

Question No. 1 is compulsory.

(i) Find Outputs/ Errors /Exceptions in the following.

(9+6)

(a) class Result

{

public static void main(String[] args)

P.T.O.

```
{  
  
for(int i = 0; i<1000000000; i++)  
  
    {  
  
        System.out.println("java");  
  
        break;  
  
    }  
  
}
```

(b) class Output

```
{  
  
    public static void main(String args[])  
  
    {  
  
        int x=10, y=0,z;  
  
        z=x/y;
```



```
System.out.println(z);
```

```
}
```

```
}
```

(c) public class Main

```
{
```

```
· public static void main(String a[])
```

```
{
```

```
int i=7,j=-3,k;
```

```
float x=-3.2,y=2.0,z;
```

```
k=i%j;
```

```
z=x%y;
```

```
System.out.println(k);
```

```
System.out.println(z);
```

```
}
```

```
}
```

- (ii) Why we use interfaces in java. Also differentiate between extends and implements keywords with reference to interfaces.
2. (i) Discuss evolution of Internet. Also define difference between the term "internet" and "Internet". (5)
- (ii) Explain various networking devices used in Internet. (5)
3. (i) Define Encapsulation, Polymorphism and abstraction. (5)
- (ii) Differentiate between method overloading and method overriding in java with taking suitable examples of each. (5)
4. (i) Discuss various types of access modifiers in java. (5)
- (ii) Write Short notes on:
- (a) Class variable
 - (b) Instance variable
 - (c) Finally

(i) What are different methods for initiating an object? Why constructor method is more popular. (5+5)

(ii) Write a java program to find sum of following series.

$$\text{Sum}=1+1/2+1/3+\dots\dots\dots 1/n$$

(i) Discuss various states of a thread during its lifetime. (5+5)

(ii) In multithreading what will happen if we call run() method of a thread object directly instead of calling the start() method? Explain with suitable example.

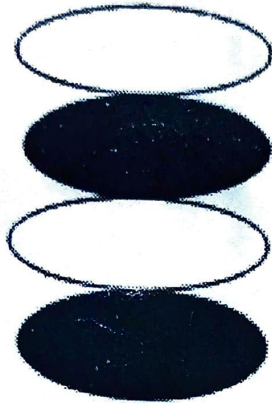
(i) Discuss various methods for stopping and blocking a thread. (5+5)

(ii) Define exception in java. How multiple catch statements are handled by java?

(i) How we create two dimensional array in Java. Write a java program to find transpose of matrix of size mXn. Enter values of m,n through keyboard. (5+5)

(ii) Explain continue and break statements with suitable examples.

9. (i) Write Applet to draw following:



(ii) Explain File Input Stream and File Output Stream in java.

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Your Roll No.....

No. of Question Paper : 7535

ique Paper Code : 72182801

me of the Paper : Environmental Science (GEC-2.1)

me of the Course : B.Voc.

nester : II

ration : 3 Hours

ximum Marks : 75

Instructions for Candidates

Write your Roll No. on the top immediately on receipt of this question paper.

Attempt **any five** questions.

All questions carry equal marks.

Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

गों के लिए निर्देश

इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए ।

P.T.O.

2. किन्हीं पाँच प्रश्नों के उत्तर दीजिए।
3. सभी प्रश्नों के अंक समान हैं।
4. इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन उत्तरों का माध्यम एक ही होना चाहिए।

1. (a) Define *any five* of the following:

(5x)

- (i) Biodiversity
- (ii) Solid waste
- (iii) Kyoto protocol
- (iv) Bishnoi Community
- (v) Renewable energy
- (vi) Energy pyramid
- (vii) Acid Rain

(क) निम्नलिखित में से किन्हीं पाँच को परिभाषित कीजिए :

- (i) जैव विविधता
- (ii) ठोस अपशिष्ट
- (iii) क्योटो प्रोटोकॉल

(iv) विश्वोई समुदाय

(v) अनवीकरणीय ऊर्जा

(vi) ऊर्जा पिरामिड

(vii) अम्लीय वर्षा

(b) Fill in the blanks:

(5x1=5)

(i)is the gradual increase in the average earth's surface temperature.

(ii)is a secondary air pollutant.

(iii) Methane is the main component of

(iv) Each link in a food chain is called as.....

(v) Gene bank is an.....type of conservation.

(ब) रिक्त स्थानों की पूर्ति कीजिए :

(i) पृथ्वी के औसत तापमान में वृद्धि होने की प्रक्रिया को _____ कहते हैं।

(ii) _____ एक द्वितीय प्रदूषक है।

- (iii) मिथेन गैस _____ का मुख्य घटक है।
- (iv) खाद्य श्रृंखला के प्रत्येक स्तर को _____ कहते हैं।
- (v) जीन बैंक _____ संरक्षण का उदाहरण है।

2 Differentiate between the following (*attempt any five*)
(5x3)

- (i) Conventional and Non-conventional energy resources
- (ii) Biosphere Reserves and National Parks
- (iii) Chipko Movement and Silent Valley Movement
- (iv) Forest and Grassland Ecosystem
- (v) Nuclear energy and Biomass Energy
- (vi) Wildlife Protection Act and Forest Conservation Act
- (vii) Pollutants and Toxicants

निम्नलिखित में से किन्हीं पाँच में अंतर स्पष्ट कीजिए :

- (i) पारम्परिक और गैर-पारम्परिक ऊर्जा संसाधन।
- (ii) जैव मण्डल रिजर्व और राष्ट्रीय उद्यान।

- (iii) चिपको आन्दोलन और खामोश घाटी आन्दोलन।
- (iv) वन्य पारितन्त्र और घासस्थल पारितन्त्र।
- (v) नाभिकीय ऊर्जा और बायोमास ऊर्जा।
- (vi) वन्य जीवन संरक्षण अधीनियम और वन संरक्षण अधीनियम।

Write short notes on *any five* of the following. (5x3=15)

- (i) Wetlands
- (ii) Sanitary Landfills
- (iii) Noise Pollution
- (iv) Groundwater Depletion
- (v) Biosphere Reserves
- (vi) Poaching
- (vii) Land Degradation

निम्नलिखित में से किन्हीं पाँच पर संक्षिप्त टिप्पणी लिखिए :

- (i) झीलें
- (ii) सफाईयुक्त भूभराव

(iii) ध्वनि प्रदूषण

(iv) भूजल गिरावट

(v) शिकार

(vi) भूमि का ह्रास

(vii) यथास्थल संरक्षण।

4. (a) What is indoor air pollution? How does it affect health?

(b) What do you understand by Climate change? How is it affecting the human community?

(c) Differentiate between food chain and food web with illustrations.

(क) आंतरिक वायु प्रदूषण किसे कहते हैं ? यह मानव स्वास्थ्य पर किस प्रकार का प्रभाव डालता है ?

(ख) जलवायु परिवर्तन किसे कहते हैं ? इसके विभिन्न प्रभावों का वर्णन कीजिए।

(ग) एक व्यवस्था चित्र सहित खाद्य श्रृंखला और खाद्य जाल में अंतर कीजिए।

Traditional cultural practices have been playing an important role in conserving the biodiversity. Justify the statement with suitable examples. (15)

“पारम्परिक और सांस्कृतिक प्रथाएँ पर्यावरण के संरक्षण में महत्वपूर्ण भूमिका निभाती रही हैं।” उपयुक्त उदाहरणों द्वारा इस कथन की पुष्टि कीजिए।

(a) Discuss the merits and demerits of hydroelectric energy. (5)

(b) Critically analyze the role of media in environmental awareness and protection. (10)

(क) जल विद्युत ऊर्जा के लाभ और हानि का वर्णन कीजिए।

(ख) पर्यावरण सुरक्षा और पर्यावरण जागरूकता के संदर्भ में मीडिया के महत्व का आलोचनात्मक मूल्यांकन कीजिए।

(a) What are the issues related to Resettlement and Rehabilitation due to developmental projects? (10)

(b) Explain the goods and services provided by Forest Ecosystem. (5)

(क) विकास परियोजनाओं के कारण पुनर्वास और पुनर्उद्धार से संबंधित मुद्दे क्या हैं?

(ख) वन्य पारितन्त्र द्वारा प्रदान की जाने वाले विभिन्न वस्तुओं और सेवाओं के बारे में बताइए।

8. Evaluate the role of Indian Environmental laws in addressing the issues related to air and water.

वायु और जल संबंधित मुद्दों के संदर्भ में भारतीय पर्यावरणीय अधिनियमों की भूमिका का मूल्यांकन कीजिए।

ire [This question paper contains 4 printed pages.]

Your Roll No.....

नेय. No. of Question Paper : 9428

Unique Paper Code : 61018208

Name of the Paper : Karyalayee Hindi

Name of the Course : B.Voc. (Printing Technology /
Retail Management & IT /
Healthcare Management, Web
Design) (GEC-2.2)

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

Write your Roll No. on the top immediately on receipt of this question paper.

Attempt **all** questions.

गत्रों के लिए निर्देश

इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए ।

सभी प्रश्न के उत्तर दीजिए ।

P.T.O.

1. भारत में कार्यालयी हिंदी की संवैधानिक स्थिति पर प्रकाश डालिये ।

अथवा

कार्यालय हिंदी का स्वरूप स्पष्ट करते हुए उसके क्षेत्रों की व्याख्या करें ।

2. कार्यालय हिंदी के विकास में पारिभाषिक शब्दावली के महत्व पर प्रकाश डालिए :-

अथवा

सामान्य हिंदी और कार्यालयी हिंदी में अंतर स्पष्ट कीजिये ।

3. संक्षेपण को परिभाषित करते हुए उसकी विशेषताओं पर प्रकाश डालिए ।

अथवा

प्रारूपण की भाषा पर चर्चा करते हुए उसकी विधियों को स्पष्ट करें ।

4. टिप्पणी के स्वरूप को स्पष्ट करते हुए उसकी विशेषताओं की व्याख्या करें ।

अथवा

कार्यालय पत्राचार के विविध प्रकारों में तीन का उदाहरण सहित उल्लेख करें ।

किन्ही तीन पर टिप्पणी लिखिए :

(4×3=12)

- (i) सूचना और अधिसूचना में अंतर स्पष्ट कीजिये ।
- (ii) आवेदन लेखन
- (iii) नौकरी हेतु आवेदन पत्र लिखिए
- (iv) अनुस्मारक
- (v) कार्यालय हिंदी का उद्देश्य

(क) निम्न पाँच पारिभाषिक शब्दों के हिंदी प्रतिरूप लिखिए :- (5)

Accountant, order, agreement, director, vigilance section, Air Head Quarter, may be permitted, Governor, Election commission, University Grant Commission .

(ख) पाँच अभिव्यक्तियों का हिन्दी प्रतिरूप लिखिए । (5)

Accepted for payment, do the needful, Call for an explanation, issue reminder urgently, needful has been done, office may not carefully, seen and refunded with thanks, Please see the proceeding notes, We have no remarks to offer kindly acknowledge.

- (ग) किन्ही पाँच पद अनुभाग तथा कार्यालयों के नामों का हिन्दी अ
कीजिए ।

Controller, District magistrate, Foreign secret
Director General, Gazetted Officer, Vice chairm
Mayor, Vice-Chancellor, Administrative Sectm
University and Higher Education Section.

his question paper contains 2 printed pages.]

Your Roll No.....

No. of Question Paper : 9429

Unique Paper Code : 61018209

Name of the Paper : Soft Skills

Name of the Course : B.Voc. (Printing Technology, Web Designing) (GEC-2.3)

Semester : II

Duration : 3 Hours

Maximum Marks : 50

Instructions for Candidates

Write your Roll No. on the top immediately on receipt of this question paper.

The paper has **two** Sections : A and B.

Section A has **two** questions; Section B has **four** questions.

SECTION A

(10×2=20)

Answer all two questions.

What do you understand by soft skills? Why it becomes necessary to have a fine blend of soft and hard skills to be a successful professional?

OR

P.T.O.

The ability to empathize with others is a necessary skill for creating a harmonious and enabling social environment. Comment.

2. Differentiate between listening and hearing using suitable examples.

OR

The correct way to approach any problem is to adopt a multidimensional approach. Discuss.

SECTION B

(15×2=

Answer any two of the following.

1. What is team work? What are the skills required to work in a team?
2. What do you understand by emotional intelligence? Why do employers give importance to the emotional intelligence of their employees?
3. What is adaptability? How is adaptability a survival skill for any organization?
4. How would you define a leader? Which are the different traits that form the core characteristics of an effective leader?

This question paper contains 4 printed pages.]

Your Roll No.....

Q. No. of Question Paper : 9431

Unique Paper Code : 61018217

Name of the Paper : Internet & Java Programming

Name of the Course : B.Voc. (Web Designing) (GEC-2.2)

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

2. This paper contains two sections. Section-A contains 35 marks and Section-B contains 40 marks.

3. Attempt any 5 questions from Section-A. Each question carries 7 marks.

4. Attempt any 4 questions from Section-B. Each question carries 10 marks.

SECTION - A

1. Explain various hardware requirements to connect a laptop to the Internet.

P.T.O.

2. Discuss role of constructor in Java language with suitable example.
3. Differentiate between interfaces and classes in Java. interfaces are introduced in Java language?
4. Discuss life cycle of applet.
5. What do you mean by polymorphism in Java? Explain taking suitable example.
6. Write a java program to find average age of students. Age of students are stored in an array of Integer AGE[10]?
7. Differentiate between while and do-while loops in Java with taking suitable examples. Also give a real time example where we can use while loop but not do-while loop.

SECTION - B

1. How we create two-dimensional array in java. Write a java program to insert elements into a 3X3 matrix and display these elements into reverse order.

(i) Write a java program to print following series.

5 4 3 2 1

4 3 2 1

3 2 1

2 1

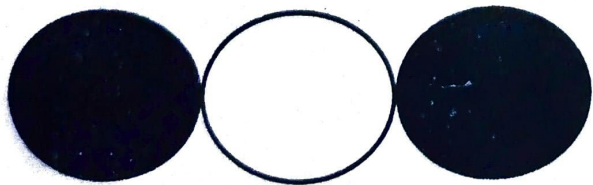
1

(ii) Write a Java Program to find sum of following series.

$$\text{Sum}=1+3+7+15+31+\dots+1023$$

Discuss different types of exception handling mechanism in Java. Discuss try and catch statements with suitable examples.

Compare applet programming with application programming. Write an applet code to print following pattern?



Write short notes on :

(i) This keyword

- (ii) Super keyword
- (iii) Dot operator
- (iv) Package

[This question paper contains 8 printed pages.]

Your Roll No. 170335/10

Sr. No. of Question Paper : 9435

Unique Paper Code : 72182801

Name of the Paper : Environmental Science

Name of the Course : B.Voc. (GEC-2.1)

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any five questions.
3. All questions carry equal marks.
4. Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

गत्रों के लिए निर्देश

इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए ।

किन्हीं पाँच प्रश्नों के उत्तर दीजिए ।

सभी प्रश्नों के अंक समान हैं ।

इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए ।

1. (a) Define any five of the following :

- (i) Soil Erosion
- (ii) Kyoto Protocol
- (iii) Endemic Species -
- (iv) Renewable Energy -
- (v) Number Pyramid
- (vi) Biofuels

निम्नलिखित (किन्हीं पाँच) की परिभाषा दीजिए :

- (i) मृदा अपरदन
- (ii) क्योटोप्रोटोकॉल
- (iii) स्थानिक प्रजातियां
- (iv) नवीकरणीय ऊर्जा
- (v) संख्या पिरामिड
- (vi) जैव ईंधन

- (iv) प्रदूषक और विषैले पदार्थ
- (v) संकटग्रस्त और स्थानिक प्रजातियां
- (vi) ताप ऊर्जा और जलीय ऊर्जा
- (vii) पर्यावरण संरक्षण अधिनियम (1986) और वन्यजीवन संरक्षण अधिनियम (1972)

3. Write short notes on any **three** of the following :

(5×3=15)

- (i) Paris Agreement
- (ii) Noise Pollution
- (iii) Water crisis in Delhi
- (iv) Scope of Environmental Studies
- (v) Land Degradation
- (vi) Acid Rain
- (vii) E-waste

निम्नलिखित में से किन्हीं तीन पर संक्षिप्त टिप्पणी लिखिये :

- (i) पेरिस समझौता

- (ii) ध्वनि प्रदूषण
- (iii) दिल्ली में जल संकट
- (iv) पर्यावरण अध्ययनों का दायरा
- (v) भूमि का हास
- (vi) अम्लीय वर्षा
- (vi) ई-कचरा

4 Do you agree that in contrast to practices of the ancient Indian society the activities of modern Indian society have harmed the environment and biodiversity? If yes, how?

(15)

प्राचीन भारतीय समाज के रीती रवाजों की तुलना में आधुनिक भारतीय समाज के कार्य कलापों ने पर्यावरण एवं जैव विविधता को क्षति पहुंचाई है। यदि हाँ तो ?

5. (a) What are Biosphere Reserves ? Name any two biosphere reserves in India and explain how these help in conservation of biodiversity?

(10)

(b) Explain the goods and services provided by forest Ecosystem.

(5)

(क) जैव मंडल संरक्षण क्षेत्र से क्या अभिप्राय है ? भारत में किन्हीं दो जैव संरक्षित क्षेत्रों के नाम बताइये और स्पष्ट कीजिए कि हमारी जैविक विविधता के संरक्षण में किस प्रकार से मदद करते हैं ?

(ख) वन्य पारितंत्र द्वारा प्रदान की जाने वाली वस्तुओं और सेवाओं का वर्णन कीजिये ।

What do you understand by Global Warming? How is it affecting the Human Communities? (10)

Discuss the concept of food chain and food web with diagrammatic presentation. (5)

श्विक उष्णता से आप क्या समझते हैं ? यह मानव समुदाय को किस प्रकार प्रभावित कर रहा है ?

वन की सहायता से खाद्य जाल और खाद्य श्रृंखला में अंतर स्पष्ट कीजिए ।

ly evaluate the role of Indian Environmental laws in solving the issues related to Environmental pollution? (15)

से संबंधित मुद्दों के संदर्भ में भारतीय पर्यावरणीय अधिनियमों की मूल्यांकन कीजिये ।

(iv) ठोस अपशिष्ट पदार्थ जिसे सूक्ष्म जीवों द्वारा अवक्रमित
सकता है उसे _____ कचरा कहा जाता है।

(v) चेर्नोबयल आपदा _____ विकिरण से जुड़ा हुआ

2.

Differentiate between the following (attempt any two)

(i) Biosphere and Atmosphere

(ii) Biodegradable and Non-biodegradable waste

(iii) In Situ and Ex-situ Conservation

(iv) Pollutants and Toxicants

(v) Endangered and Endemic species

(vi) Thermal energy and Hydro energy

(vii) Environment Protection Act (1986) and
Protection Act (1972)

निम्नलिखित में से किन्हीं पाँच के अंतर स्पष्ट कीजिए

(i) जैव मण्डल और वायु मण्डल

(ii) जैव निम्निकरनिये और अजैव निम्निकरनिये अपशिष्ट

(iii) यथा स्थल और बहिस्थल संरक्षण

Fill in the blanks :

(5×1=5)

- (i) Network of food chains is called _____ .
- (ii) _____ is a book published by IUCN containing data of endangered plants and animals.
- (iii) _____ is an ecological pyramid which is always upright.
- (iv) Solid waste material that can be degraded by microorganisms are called _____ waste.
- (v) Chernobyl disaster is associated with _____ radiation.

रिक्त स्थान को भरिए :

- (i) खाद्य शृंखला के नेटवर्क को _____ कहा जाता है।
- (ii) _____ अंतरराष्ट्रीय प्रकृति एवं प्राकृतिक संसाधन संघ (आई. यू. सी. एन.) द्वारा प्रकाशित एक पुस्तक है जिसमें कई संकट ग्रस्त जानवरों और वनस्पतियों से संबंधित आंकड़े प्रस्तुत किए गए हैं।
- (iii) _____ एक परितंत्रिय पिरामिड है जो हमेशा उर्ध्वाधर होता है।

8. Evaluate the role of social and electronic media in generating Environmental awareness.

प्राथमिक और द्वितीय वायु प्रदूषकों में अंतर स्पष्ट कीजिए
का मानव स्वास्थ्य और पर्यावरण पर प्रभावों का उदाहरण
कीजिए।

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 9436

Unique Paper Code : 61018405

Name of the Paper : Basic Statistics and Probability

Name of the Course : **B.Voc. (Printing Technology)**
(GEC-4.1)

Semester : IV

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **Five** questions.
3. **All** questions carry equal marks.

1. (a) Distinguish between Discrete Data and Continuous Data with help of suitable example.
(b) Explain the differences between Relative frequency and Cumulative frequency with help of suitable example.
(c) Distinguish between Ordinal Data and Time-Series Data with help of suitable example.

2. (a) Draw a histogram to represent the following frequency distribution :

Marks	0-10	10-20	20-40	40-50	50-60	60-70	70-90	90-100
No. of Students	4	6	14	16	14	10	16	5

- (b) Draw a frequency polygon for the following distribution

Class Interval	15-25	25-35	35-45	45-55	55-65	65-75
Frequency	10	16	18	15	13	4

- (c) Draw less than and more than ogive curve for the following data

No of Children	1	2	3	4	5	6
No of Families	72	50	28	12	8	5

3. (a) Explain the properties of regression coefficient.

- (b) Find from the following data :

- (i) The two regression coefficients
- (ii) The regression lines
- (iii) The coefficients of correlation

Price(X)	78	89	97	69	59	79	68	61
Demand(Y)	125	137	156	112	107	136	123	108

(a) A computer while calculating the correlation coefficient between two variables X and Y obtained the following results :

$$n = 25, \Sigma X = 125, \Sigma X^2 = 650, \Sigma Y = 100, \Sigma Y^2 = 460 \text{ and } \Sigma XY = 508$$

It was, however, later discovered at the time of checking that it had copied two pairs of observations as (6,14) and (8,6), wrong, while the correct values were (8,12) and (6,8). Obtain the correct value of the correlation coefficient between X and Y.

(b) Differentiate between correlation and regression.

The estimated regression equation for a model involving two independent variables and 10 observations follows :

$$\hat{Y} = 29.1270 + .5906x_1 + .4980x_2$$

- (i) Interpret b_1 and b_2 in this estimated regression equation.
- (ii) Estimate y when $x_1 = 180$ and $x_2 = 310$.

6. (a) Briefly discuss the multiplication rule of probability

(b) The card are drawn successively, without replacement from a pack of 52 well shuffled cards. What is the probability that first two cards are kings and the third card drawn is an ace?

7. If a fair coin is tossed 10 times, find the probability
- (i) Exactly six heads
 - (ii) At least six heads
 - (iii) At most six heads

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 9437

Unique Paper Code : 61018406

Name of the Paper : Print Media Production

Name of the Course : B.Voc. (Printing Technology)
(GEC-4.2)

Semester : IV

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **Five** questions.
3. **All** questions carry equal marks.

1. Elaborate on citizen journalism and its role in democracy? Give adequate examples to justify your answers.
2. How paid editorial policies of the newspapers adversely affect the communication flow? Explain.
3. Discuss the relevance of sting operations in India. Substantiate your answer with relevant examples.

P.T.O.

4. What is Page 3 Journalism? Explain the major precautions in designing of such content.
5. Write short notes on **any two** of the following :
 - (a) Beat Reporting
 - (b) Operation West End
 - (c) Cash for vote
 - (d) Development stories
6. Discuss the relevance of pictures in layout design of magazine. Describe the importance of Colour and Captions in photo editing.
7. Describe **any two** of the following in reference to Quark Xpress :
 - (a) Tool Palette
 - (b) Colour Palette
 - (c) Modify
8. Write short notes on **any two** of the following :
 - (i) CTP (Computer to Plate)
 - (ii) Above the Fold
 - (iii) Logo
 - (iv) Photoshop

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 9437

Unique Paper Code : 61018406

Name of the Paper : Print Media Production

Name of the Course : **B.Voc. (Printing Technology)**
(GEC-4.2)

Semester : IV

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **Five** questions.
3. **All** questions carry equal marks.

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 - (b) Colour Palette
 - (c) Modify
8. Write short notes on **any two** of the following :
 - (i) CTP (Computer to Plate)
 - (ii) Above the Fold
 - (iii) Logo
 - (iv) Photoshop

question paper contains 8 printed pages.]

Your Roll No.....

No. of Question Paper : 9440

Question Paper Code : 61018410

Name of the Paper : Management Information Systems

Name of the Course : B.Voc. (Web Designing/Software Development) (GEC-4.1)

Semester : IV

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

Write your Roll No. on the top immediately on receipt of this question paper.

Attempt **all** questions.

All questions carry equal marks.

(a) Discuss in detail about models of decision making.

(10)

(b) Define MIS and comment upon the use of Information as a strategic resource.

(5)

OR

P.T.O.

- (c) Describe the contemporary approaches to the study of information systems.
- (d) How do information systems help businesses synergies, core competencies, and network-based business strategies to achieve competitive advantage?
2. (a) What are the different types of topologies? Also state their benefits and limitations.
- (b) 'ITES is an industry that is slowly taking shape because of the increasing need of IT in every aspect of business.' – Comment.

OR

- (c) 'System analyst recommend, design, and maintain many types of systems for users.' In the light of this statement explain Systems Development Life Cycle.
- (d) Explain the working of a Data Warehouse.
3. (a) Mention the major application areas of Artificial Intelligence.
- (b) What is the role of information systems in helping people working in a group make decisions more efficiently?

OR

(c) Differentiate between :

(i) MIS and DSS

(ii) EIS and DSS

(10)

(d) Write a short note on Expert Systems.

(5)

(a) What are the issues and technical alternatives to be considered when developing international information systems? (8)

(b) Analyse the relationships among ethical, social and political issues that are raised by information systems.

(7)

OR

(c) Identify the main moral dimensions of Information society and specific principles for conduct that can be used to guide ethical decisions. (7)

(d) Evaluate the impact of contemporary information systems and the Internet on the protection of Individual Privacy and Intellectual property. (8)

5. (a) Explain how Airline Reservation Systems focus on Management.

OR

- (b) Read the following case study and answer the questions that follow :

The most common approach to business intelligence is to assemble a team of developers to build a data warehouse or data mart for a specific project, buy a reporting tool to use with it, and disassemble the team upon the project's completion. However, some companies are taking a more strategic approach: standardizing on fewer business-intelligence tools and making them available throughout their organizations even before projects are planned. To execute these strategies, companies are creating dedicated groups, sometimes called competency centers or centers of excellence, to manage business-intelligence projects and provide technical and analytical expertise to other employees. Competency centers are usually staffed with people who have a variety of technical, business, and data-analysis expertise, and the centers become a repository of business-intelligence related skills, best practices, and application standards.

About 10 percent of the 2,000 largest companies in the world have some form of business-intelligence competency center, Gartner Inc. analyst Howard Dresner says. Yet approaches vary. While most are centralized in one location, a few are virtual, with staff scattered throughout a company. Some are part of the IT department—or closely tied to it— while others are more independent, serving as a bridge between IT and business-unit managers and employees.

Allstate Insurance Co.'s Enterprise Business Intelligence Tools Team is responsible for setting business-intelligence technology strategy for the company's 40,000 employees and 12,900 independent agents, says Jim Young, the team's senior manager. Based in Allstate's Northbrook, Illinois, headquarters, the center was created earlier this year by consolidating three groups built around separate business-intelligence products used in different parts of the company. The center serves as a central repository for business-intelligence expertise, providing services and training for Allstate employees, and is developing a set of standard best practices for building and using data warehouses and business-intelligence applications.

"That way, we can execute on a common strategy," Young says. The center maintains a common business intelligence infrastructure and manages software vendors and service providers. At Aviva Canada Inc., a property and casualty insurance company, the primary role of its Information Management Services department is to bridge the communications gap between business intelligence-tool users and Aviva's IT department.

"Business intelligence isn't a technology issue. BI is a business issue," says Gerry Lee, information management services VP. Centralization is critical, because Aviva's goal is to grow by 50 percent over the next five years, partly through additional acquisitions, Lee says. The center also impacts the company's numerous customer relationship-management initiatives. "We couldn't get into CRM until we had solid data-management and business-intelligence capabilities," he says.

Cost reduction is often the driving factor for companies to create competency centers and consolidate business-intelligence systems. Standard technology and implementation practices can reduce the cost of some business-intelligence projects by up to 95 percent, says Chris Amos, reporting solutions manager at British

Telecom. BT established a center of excellence around Actuate's reporting software three years ago and is developing business-intelligence systems for the telecommunications company's wholesale, retail, and global services operations.

Despite the potential savings, funding can be an issue for creating and running business-intelligence centers of excellence. Start-up costs for a business-intelligence competency center can be \$1 million to \$2 million, depending on a company's size, Gartner's Dresner says.

Many believe the payoffs are worth it. General Electric Co.'s energy products business formed its Business Data Modeling Center of Excellence last year to improve data management and business-intelligence practices for GE Energy's 8,000 employees. That has helped the business move beyond simple reporting of financial and supplier data to more advanced forecasting and predictive analysis.

"The data's become more actionable. The visibility of this data to the business has brought millions in savings," says Rich Richardson, manager of business data modeling and delivery, who manages the center. That's a business intelligence competency center that's more than paid for itself.

Case Study Questions :

- (i) What is business intelligence? Why are business intelligence systems such a popular business application of IT? (8)
- (ii) What is the business value of the various BI applications discussed in the case? (7)

[This question paper contains 4 printed pages.]

Your Roll No.....

r. No. of Question Paper : 9441

SS Unique Paper Code : 61018411

SS Name of the Paper : Cyber Crime and Laws

3) Name of the Course : B.Voc. (Web Designing/Software Development) (GEC-4.2)

31 Semester : IV

7) Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **all** the questions.
3. **All** questions carry equal marks.

1. (a) Define Cyber Crime. What are the different types of cyber crimes committed by criminals. Explain various legal provisions for dealing with cyber crimes in India.

(9)

(b) Write short notes on the following : (2×3=6)

(i) Cyber space jurisdiction

(ii) Copyright issues in Cyber Space

P.T.O.

OR

(a) Explain the different types of domain name disputes. Distinguish between trademarks and domain name disputes. Explain provisions in law in dealing with domain name disputes. (9)

(b) Write short notes on the following : (2×3=6)

(i) Cyber Stalking

(ii) Privacy and data protection in IT act

2. (a) What are the advantages and disadvantages of Internet? (9)

(b) Give some benefits of E-forms over paper forms. (6)

OR

(a) What do you mean by E-Contract? What are the essentials of E-Contract? (9)

(b) Describe the following terms as per IT act 2000. (2×3=6)

(i) Certifying Authority

(ii) Subscriber

3. (a) Describe the various E-Governance initiatives in India. (9)

(b) Differentiate between : (2×3=6)

- (i) Public key and Private Key
- (ii) Electronic Signature and Digital Signature

OR

(a) Explain the rules laid down in IT act in relation to the following : (3×3=9)

- (i) Acknowledgement and Receipt of electronic record
- (ii) Time of dispatch and receipt of electronic record
- (iii) Place of dispatch and receipt of electronic record

(b) Write short notes on the following : (2×3=6)

- (i) Internet Governance
- (ii) Digital Signature

(a) How is Controller of Certifying Authorities appointed?
What are his functions? (9)

(b) Write short notes on : (2×3=6)

- (i) Adjudication on Contravention
- (ii) Compounding of offenses

OR

- (a) Discuss the provisions of IT act 2000 relating to establishment, appointment, terms of office, salary, resignation and removal of Chairperson of Appellate Tribunal. (9)
- (b) Explain the duties of Certifying Authorities. (6)
5. (a) Write short notes on the following : (3×3)
- (i) Hacking
 - (ii) E-Governance
 - (iii) Data Security

OR

- (a) Differentiate between : (3×3=9)
- (i) Contraventions and Offences
 - (ii) Symmetric cryptography system and Asymmetric cryptography system
 - (iii) Trade Mark and Domain name
- (b) Briefly discuss the following : (2×3=6)
- (i) Punishment for Tampering with computer source code
 - (ii) Punishment for Sending offensive message through communication service etc. (200)

4. Explain the learning objectives for managing interpersonal conflict and negotiation.
5. What is the role of Decision Making at work place? What kind of skills is required for effective decision making?
6. Decision making is the key skill in the work place. Discuss
7. Discuss different kind of skills required for effective Decision Making.

