

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2646

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

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

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।
2. सभी प्रश्न के उत्तर दीजिए।

P.T.O.

1. कार्यालयी हिंदी का अभिप्राय बताते हुए सामान्य हिंदी और कार्यालयी हिंदी का अंतर स्पष्ट कीजिए। (15)

अथवा

कार्यालयी हिंदी की स्थिति और सम्भावनाओं पर विचार कीजिए।

2. पारिभाषिक शब्दावली किसे कहते हैं ? कार्यालयी हिंदी में पारिभाषिक शब्दावली के महत्व पर प्रकाश डालिए। (15)

अथवा

कार्यालय से निर्गत होने वाले किन्हीं तीन पत्रों को उदाहरण सहित स्पष्ट कीजिए।

3. टिप्पणी की विशेषता बताते हुए उसके महत्व को स्पष्ट कीजिए। (15)

अथवा

संक्षेपण को परिभाषित करते हुए उसके विशेषताओं पर प्रकाश डालिए।

4. कार्यालयी विज्ञापन से आप क्या समझते हैं ? किसी एक विज्ञापन का उदाहरण दीजिए । (15)

अथवा

प्रारूपण को स्पष्ट करते हुए उसकी विधियाँ बताइए ।

5. (क) किन्हीं पाँच पारिभाषिक शब्दावली के हिंदी प्रतिरूप लिखिए - (5)

Approval, Income tax, Ordinance, Selection, Contract, Agenda, Commission, Junior, Account, Workshop

- (ख) किन्हीं पाँच अभिव्यक्तियों के हिन्दी प्रतिरूप लिखिए - (5)

As listed below, Cash has been closed, Confidential report, Delay regretted, In the light of the facts, In public interest, Kindly confirm, Accepted on trial basis, Appeal has been rejected, Benefit of doubt

- (ग) किन्हीं पाँच पद, अनुभाग तथा कार्यालयों के नाम का हिन्दी अनुवाद कीजिए - (5)

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4

Chairman, Accountant, Vice principal, Zonal
officer, Peon, Director, Secretary, Planning
officer, Dean, Translator

(300)

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2647

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

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

Section A

(10×2=20)

Answer all two questions.

1. How do soft skills develop and increase the essential employability skills in candidates seeking employment?

OR

P.T.O.

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

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

OR

When a team is divided on certain issues, how will you bring about unity among the team members?

Section B (15x2=30)

Answer any two of the following.

1. What qualities should one possess in order to solve problems? Illustrate with suitable examples.
2. What are many forms of written communication in an organisation?
3. What are the characteristics of an assertive person? Illustrate with suitable examples.
4. What motivates some people to study and learn even when there is no apparent need to do so?
5. What is adaptability? How is adaptability a survival skill in an organization?

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2649

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. **All** questions are compulsory.
3. Parts of question must be answer together.
4. Marks are indicated against each question.

SECTION A

1. Write short notes on the following terms (attempt any **two**):

(a) Abstract class

P.T.O.

- (b) Interface
 - (c) "this" keyword
 - (d) try block (5×2=10)
2. (a) Explain any three differences between an Abstract class and an Interface. (7.5)
- (b) Explain the differences between overriding and overloading. (7.5)

OR

- (a) Explain the working of "super" keyword in Java. (7.5)
- (b) What does each term in 'public static void main(String args[])' mean? (7.5)
3. Write a short notes on the following (attempt any **four**): (2.5×4=10)
- (a) JRE
 - (b) JVM
 - (c) JDK
 - (d) object
 - (e) static

SECTION B

4. Write a short notes on the following : (attempt any **four**)

(a) constructors

(b) static methods

(c) deadlock

(d) thread

(e) process (3×5=15)

5. Explain, with the help of an example, the working of a multithreaded program by implementing the Runnable interface. (10)

OR

Write a program to demonstrate multilevel inheritance. (10)

SECTION C

6. (a) Explain the output of the following code segment : (7.5)

```
public class A {  
    public static void main(String[] args)
```

P.T.O.

```
    {  
        if (true)  
            break;  
    }  
}
```

- (b) Write a program to demonstrate the working of varargs. (7.5)

OR

- (a) Explain the output of the following code segment : (7.5)

```
public class A {  
    public static void main(String[] args)  
    {  
        System.out.println('j' + 'a' + 'v' + 'a');  
    }  
}
```

- (b) Write the code to create two objects objA and objB of class X. Add a function in the class to add the two objects and return the sum in a third object. Class X contains two variables i and j. (7.5)

B.voc

[This question paper contains 8 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2653

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.

छात्रों के लिए निर्देश

1. 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 सभी उत्तरों का माध्यम एक ही होना चाहिए।

1. (a) Define any **five** of the following : (5×2=10)

- (i) Deforestation
- (ii) Endemic species
- (iii) Biomagnification
- (iv) Tidal Energy
- (v) Eutrophication
- (vi) Ecosystem
- (vii) Fossil fuels

निम्नलिखित (किन्हीं पाँच) की परिभाषा दीजिए :

- (i) वनोन्मूलन
- (ii) स्थानिक प्रजातियाँ

- (iii) जैव आवर्धन
- (iv) ज्वारीय ऊर्जा
- (v) सुपोषण
- (vi) पारिस्थितिकी तंत्र
- (vii) जीवाश्म ईंधन

(b) Fill in the blanks :

(5×1=5)

- (i) Network of food chains in an ecosystem is known as.....
- (ii) Due to ozone depletion, human beings get more exposed to.....rays.
- (iii)is the removal of top layer of soil.
- (iv) The state of increased levels of nitrogen and phosphorous in the lakes is called.....
- (v) The global action plan adopted at Earth Summit at "Rio de Janerio" in 1992 is also known as.....

रिक्त स्थान को भरिए :

- (i) भोजन शृंखलाओं के नेटवर्क को कहा जाता है ।
- (ii) ओजोन हास के कारण मनुष्य किरणों के संपर्क में ज्यादा आते हैं ।
- (iii) से अभिप्राय मृदा की उपरी सतह का हटना है ।
- (iv) झीलों में नाइट्रोजन और फॉस्फोरस की बढ़ी हुई मात्रा की स्थिति को कहते हैं ।
- (v) 1992 के "रियो डी जनेरियो" के भूमंडल सम्मेलन (अर्थ समिट) में स्वीकृत वैश्विक कार्य योजना को भी कहते हैं ।

2. Differentiate between the following (attempt any **five**) :
(5×3=15)

- (i) Terrestrial ecosystem and Aquatic ecosystem
- (ii) Renewable energy and Non Renewable energy
- (iii) Biotic and A biotic factors
- (iv) Grazing and Detritus Food chain

(v) Primary and Secondary Pollutants

निम्नलिखित में से किन्हीं तीन के अंतर स्पष्ट कीजिए।

- (i) स्थलीय पारिस्थितिकी तंत्र और जलीय पारिस्थितिकी तंत्र
- (ii) अक्षय ऊर्जा और गैर अक्षय ऊर्जा
- (iii) जैविक और अजैव कारक
- (iv) चराई और कतरे (detritus) खाद्य श्रृंखला
- (v) प्राथमिक प्रदूषक और द्वितीयक प्रदूषक

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

(3×5=15)

- (i) Lifestyle Diseases
- (ii) Bishnoi Community of Rajasthan
- (iii) Ecological Succession
- (iv) Rainwater Harvesting
- (v) Man Wildlife Conflict

निम्नलिखित में से किन्हीं तीन पर संक्षिप्त टिप्पणी लिखिये :

- (i) जीवन शैली के रोग

- (ii) राजस्थान के बिश्नोई समुदाय
 - (iii) पारिस्थितिकीय उत्तराधिकार
 - (iv) भूजल पुनर्भरण
 - (v) मानव वन्य जीवन टकराव राजस्थान के बिश्नोई समुदाय
4. (a) Discuss the socio-economic impacts of floods and earthquakes giving one example of each. (10)
- (b) What are the Biogeographic Zones of India? (5)
- (क) बाढ़ और भूकंप, दोनों के एक-एक उदाहरण देते हुए इनके आर्थिक और सामाजिक प्रभावों का वर्णन कीजिए।
- (ख) भारत के जैव भौगोलिक क्षेत्र क्या हैं ? चर्चा।
5. (a) What do you understand by Environmental movements? Briefly describe the role of movements in conservation of biodiversity and protection of Environment? (10)
- (b) Discuss the ecosystem services and benefits of biodiversity. (5)

(क) पर्यावरणीय संबंधी आंदोलनों से आप क्या समझते हैं ? जैव विविधता एवं पर्यावरण संरक्षण हेतु चलाये गए ऐसे किसी आंदोलन की भूमिका का वर्णन कीजिए ।

(ख) पारितंत्र की सेवाओं और जैव विविधता के लाभ का वर्णन कीजिए ।

6. (a) Define Conservation. What are the different ways of conservation Biodiversity? (10)

(b) How do indigenous and their traditional practices contribute towards conservation of natural resources? (5)

(क) संरक्षण को परिभाषित करें । जैव विविधता के संरक्षण के विभिन्न तरीके क्या हैं ?

(ख) हमारे प्राकृतिक संसाधनों के संरक्षण में स्थानीय समुदाय और उनके पारंपरिक रीति-रिवाज किस प्रकार योगदान करते हैं ?

7. (a) Discuss the multidisciplinary nature of Environmental Studies. (5)

(b) What is Environmental Pollution? Discuss the causes, effects and control measures of air pollution. (10)

(क) पर्यावरण अध्ययन के बहु-विषयक प्रकृति पर चर्चा करें।

(ख) पर्यावरण प्रदूषण क्या है ? वायु प्रदूषण के कारणों, प्रभावों और नियंत्रण उपायों पर चर्चा करें।

8. (a) Critically evaluate the use of nuclear energy with reference to human health giving suitable examples. (5)

(b) The no. of endangered species is increasing day by day. It means the species diversity is decreasing. Justify the statement giving appropriate reasons. (5)

(c) Discuss the various environmental protection acts. What are our environmental rights and duties? (5)

(क) नाभिकीय ऊर्जा के प्रयोग का पर्यावरण और मानव स्वास्थ्य के संदर्भ में आलोचनात्मक मूल्यांकन कीजिए। उचित उदाहरण भी प्रस्तुत कीजिए।

(ख) लुप्तप्राय प्रजातियों की संख्या दिन-प्रतिदिन बढ़ती जा रही है। इसका मतलब है कि प्रजातियों की विविधता कम हो रही है। उचित कारण बताने वाले बयान को सही ठहराएं।

(ग) विभिन्न पर्यावरण संरक्षण कृत्यों पर चर्चा करें। हमारे पर्यावरणीय अधिकार और कर्तव्य क्या हैं।

[This question paper contains 6 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2654

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.

1. A company recently embarked on an in-store promotional campaign, with displays of its antacid featured prominently in the supermarkets. The company also ran its usual radio and television

P.T.O.

commercials. Over a period of 10 weeks, the company kept track of its expenditure on radio and television advertising, variable X_1 as well as its expenditure on in-store displays, variable X_2 . The resulting sales for each week in the area studies were recorded as dependent variable Y . The company analyst hypothesized a linear regression linking sales volume with the two interdependent variables. Using the following data (all values in thousands of rupees), fit the desired regression equation.

Y	72	76	78	70	68	80	82	65	62	90
X_1	12	11	15	10	11	16	14	8	8	18
X_2	5	8	6	5	3	9	12	4	3	10

Now estimate the sales if $X_1 = \text{Rs. } 13,000$ and $X_2 = \text{Rs. } 7,000$. (15)

2. (a) Find the coefficient of correlation between age and playing habits of the following students and also comment on the results : (8)

Age of players	16	17	18	19	20	21	22
No. of students	2,500	2,000	1,800	1,500	1,200	1,000	400
Regular players	2,250	1,700	1,260	900	480	180	60

- (b) At National company the newly recruited salesmen are given a training which is followed by an aptitude test before they are put on the job. The following data collected by the sales manager of the company shows the scores at the aptitude test and sales made in the first quarter of their employment by a total of 10 salesmen. Calculate Spearman's coefficient of rank correlation of the following : (7)

Salesman	1	2	3	4	5	6	7	8	9	10
Test scores	18	20	21	22	27	27	28	29	29	29
Sales (000 Rs.)	23	27	29	28	28	31	35	30	36	33

3. (a) Find correlation coefficient from following result -
 $n = 10$, $\sum X = 140$, $\sum Y = 150$, $\sum (X-10)^2 = 180$,
 $\sum (Y-15)^2 = 215$, $\sum (X-10)(Y-15) = 60$. (5)
- (b) Find Covariance between X and Y, if $\sum X = 60$,
 $\sum Y = 90$, $\sum XY = 574$, and $n = 10$. (5)
- (c) Discuss mathematical properties of Standard Deviation. (5)

4. (a) A panel consists of 4 CAs, 9 engineers and 3 clerks. Out of them, a committee of 3 members is to be selected randomly. Find the probability that the first person selected is a CA, the second one is an engineer and the third one a clerk. (8)
- (b) A box contains 15 pieces of an electronic component, 7 of which are of brand X and 8 of brand Y. Two pieces are picked randomly from these, one after another without replacement. Find the probability that both of them are of Brand X. How would your answer be different if the first piece is replaced before the second one is drawn? (7)
5. (a) An unbiased dice is thrown twice. Let the event A be 'odd number on the first throw' and B the event 'odd number on the second throw'. Check the independence of the events A and B. (8)
- (b) A person has undertaken a construction job. The probabilities are 0.65 that there will be strike, 0.80 that the construction job will be completed on time if there is no strike, and 0.32 that the construction

job will be completed on time if there is a strike. Determine the probability that the construction job will be completed on time. (7)

6. (a) Mean and standard deviation of a set of 10 values were calculated as 16 and 5, respectively. It was discovered later on that two of the values were recorded as 8 and 12 while the correct values were 3 and 21, respectively. Rectify the error and compute the corrected values of mean and standard deviation. (8)
- (b) Price of a commodity increased by 12%, 15%, 0%, 8% during the years 1, 2, 3, and 4 respectively, while it reduced by 10% in 5TH year. Calculate the average change in the price over the 5 year interval. (7)
7. (a) Discuss Properties of Arithmetic Mean. (5)
- (b) Difference between variance and covariance. (5)
- (c) Distinguish between Skewness and Kurtosis. (5)

8. (a) Explain the difference between census and sample studies and also bring out the distinction between parameters and statistics. (5)
- (b) Explain various scales of measurement of data. In this context, distinguish clearly between interval and ratio scales. (5)
- (c) Compare between time series data and cross sectional data. (5)

[This question paper contains 3 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2655

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 **all** questions.
3. **All** questions carry equal marks.

1. What is the difference between Investigation Journalism and Sting operation? Explain with suitable examples.

OR

P.T.O.

What are the main issues of ethics in journalism? Do you think paid news and Advertorials are unethical?

2. Why parliamentary reporting is called specialized reporting? What are the main issues a reporter should focus on while covering the sessions of Parliament?

OR

How a reporter should prepare himself/herself to cover the field of business and rural areas?

3. What are the main points a sub editor should keep in mind while making front page and editorial page of a newspaper?

OR

In layout designing why the following elements are important: Typography, copy, photographs, headlines, caption?

4. Write a detailed note on Invention of printing press and its growth.

OR

In contemporary print technology Quark Express, Coral Draw and Photoshop are very important. Explain.

5. Write short notes on any **three** of the following :
- (i) Agenda setting
 - (ii) Page-3 journalism
 - (iii) Ownership and revenue
 - (iv) Editorial policy
 - (v) 5W1H and Attribution
 - (vi) Desktop publishing

[This question paper contains 10 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2658

Unique 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

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **all** questions.
3. **All** questions carry equal marks. (15×5=75 marks)

1. (a) Why are information systems so essential for running and managing a business today? (5)
- (b) Explain briefly the different models of decision making. (10)

P.T.O.

OR

- (c) What academic disciplines are used to study information systems? How does each contribute to an understanding of information systems? What is a sociotechnical systems perspective? (10)
- (d) Define information system. How does it work? (5)
2. (a) Explain the working of a Data Warehouse. (7)
- (b) What are the major capabilities of DBMS and why is a relational DBMS so powerful? (8)

OR

- (c) Describe the core activities in the system development life cycle process. (10)
- (d) What types of systems are used for enterprise-wide knowledge management and how do they provide value for businesses? (5)
3. (a) Explain the business benefits of artificial intelligence techniques for knowledge management. (8)

- (b) What is the role of information systems in helping people working in a group make decisions more efficiently? (7)

OR

- (c) Describe GDSS. Explain the role of GDSS in decision making process. (7)
- (d) Briefly explain about Expert systems. (8)
4. (a) What are the issues and technical alternatives to be considered when developing international information systems? (7)
- (b) What are the most important tools and technologies for safeguarding information resources? (8)

OR

- (c) How have information systems affected everyday life? (7)
- (d) What ethical, social, and political issues are raised by information systems? (8)
5. Read the following case study and answer the questions that follow :

AUTOMAKERS BECOME SOFTWARE COMPANIES

As the smartphone market continues to expand and initiatives like smart electric grids continue to pick up steam, another industry has begun getting “smarter” with software and apps: the automobile industry. Ford, BMW, and other automobile companies are enhancing their vehicles with onboard software that improves the customer experience, and the auto industry is working on technology that will allow cars to be managed via the cloud.

Automakers are finding that software is a way of adding more “value” and freshness to their products without having to invest so heavily in new vehicle production. It takes Ford Motor Company, for example, about two and one-half years to plan, design, and build a new car. Design and production, including metal stamping equipment and assembly line setup, must be finalized long before the car rolls off the line. But the auto makers can create a new software interface for a car within months and update it again and again over the life of the car without much lead time. This enables Ford and other automakers to significantly improve the passenger experience and add new features to cars years after they are built.

Ford is perhaps the automaker doing the most to innovate with software and apps. Its MyFord Touch interface is an in-dash touch screen available for select vehicles with controls for navigation, music, phone integration, and temperature. Ford has upgraded this interface and the Sync software behind the interface, adding tablet and smartphone integration and better voice response. In 2010, Ford added support for the online music streaming service Pandora, which is very popular among young potential buyers. This update enables drivers to connect their tablets and smartphones to the Sync system to access music and other apps using voice commands.

Chairman Bill Ford Jr. has championed the use of software to alleviate urban congestion by investing in technology that responds to the problems created by traffic in the biggest cities. Theoretically, technology might help cars to avoid traffic jams, to reserve parking spaces in advance, and possibly to even drive themselves.

To manage vehicles in this way, cars need to be connected to some kind of central system, which would coordinate with public transit and other

transportation methods, and to do this, cars need to be equipped with software that can monitor and enhance vehicle function at the most basic levels. The eventual system would require that cars feed increasing amounts of information to systems whose purpose would be to minimize highway congestion. The system would also require an industry standard, which does not exist as of yet. Ford has doubled its investment in vehicle-to-vehicle communication technologies and BMW is also continuing to develop ways for vehicles to communicate with one another on the road to avoid collisions.

With the inclusion of software in their cars, automakers are entering uncharted territory. They must now devote resources to updating and testing their software, as well as establishing ways to provide the updated software to their customers. Car companies need to coordinate their car development cycles more closely with their software development cycles. Also, many of the technologies included in automobile software packages raise the same privacy concerns surrounding location tracking that have often plagued smartphone manufacturers and app developers.

Ford is grappling with the best way to roll out software upgrades to its customers. The company has been mailing USB sticks to 250,000 customers whose cars have an advanced touch screen control panel running the MyFord Touch interface. The stick contains a software upgrade that will improve navigation controls, the music and phone features, as well as the ability to control car temperature. The upgrade also contains code that will upgrade system speed and improve the interface based on common criticisms from Ford owners.

Although Ford says it plans to continue issuing software upgrades this way, the company hopes that customers will get into the habit of checking the Ford Web site for software upgrades on their own. Though most car owners are used to the technology in their cars remaining constant throughout the life of the car, newer cars are poised to change all of that.

Ford has hired "human-machine interface engineers," whose job is to analyze how their customers interact with the software in their cars. Often, these engineers use customer feedback to make changes to the software. Customers complained that too much

information was available on each screen of the interface, so Ford moved the most commonly used features to more prominent positions on screen and increased their font size, relegating the rest to submenus. Feedback has been positive. Ford has also asked dealers to dedicate more time and personnel to hands-on technology training to help customers master its interface.

GM, Daimler, and other companies are all developing new features for their cars that operate online in the cloud. Users will be able to remotely track their cars (you'll never forget where you parked again) and diagnose problems with the car, like low tire pressure or the need for an oil change. Corporations will be able to track employee use of company cars by interpreting car sensors and engine readouts. Manufacturers will be able to aggregate and analyze the data from customers' cars to identify quality problems and, if necessary, quickly issue recalls. Just as with apps, the possibilities are limited only by the imagination of automakers.

GM will allow its app developers to access its computer systems to improve app function, which

raises a familiar set of privacy concerns. Auto analysts believe that automakers will make mistakes as they learn how to properly handle sensitive customer data and to provide robust privacy options. On the other hand, automakers are hoping that younger customers who have grown up using Facebook are less likely to care about privacy, and features that collect highly targeted information about a car's location and driving habits. BMW is also investing a whopping \$100 million in mobile apps, hoping to market them to their customers as "premium services." Some analysts are skeptical of the decision to invest that much money, but BMW believes that mobile apps will become an increasingly attractive selling point for customers of its BMWi electric and hybrid cars. Although the future of cars sharing information with other nearby cars is still years away, automakers are excited by the possibilities afforded by smart software and apps.

- (a) How is software adding value to automakers' products? (7)
- (b) How are the automakers benefiting from software-enhanced cars? How are customers benefiting? (8)

OR

- (c) What value chain activities are involved in enhancing cars with software? (7)
- (d) How much of a competitive advantage is software providing for automakers? Explain your answer. (8)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2659

Unique Paper Code : 61018411

Name of the Paper : Cyber Crime and Laws

Name of the Course : **B.Voc. (Web Designing /
Software Development)
(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 **all** the questions.
3. **All** questions carry equal marks.

1. (i) What are the various categories of Cyber Criminals? Differentiate between Conventional Crimes and Cyber Crimes? (9)

(ii) Write short notes on the following :

(a) Logic Bombs

P.T.O.

(b) Hacking

(3×2)

OR

- (i) Write a note on Cyber Crime. What are the techniques to commit Cyber Crimes? (9)
- (ii) What are the categories of Cyber Crimes? (6)
2. (i) What is meant by Internet? Explain the advantages and disadvantages of Internet. (9)
- (ii) What is E-form? Differentiate between Electronic form and Paper Form. (6)

OR

- (i) What is meant by Data Security? What are the various methods of protecting computer data? (9)
- (ii) What is Cryptography? Explain the various types of Cryptography. (6)
3. (i) What is Digital Signature? Explain the process of authentication of electronic record using digital signature. (9)

- (ii) Define Computer Network and Computer Terminal. Explain the case law of Diebold System Pvt. Ltd. with reference to it. (6)

OR

- (i) What is e-governance? Explain the provisions of IT Act which facilitate e-governance. (9)
- (ii) Write short note on the following :
- (a) Intermediary
- (b) Data (3×2)
4. (i) Define Controller of Certifying Authority. What are the functions of CCA? (9)
- (ii) Discuss the rules provided in the IT Act, 2000 regarding acknowledgement of receipt of electronic record. (6)

OR

- (i) Define Certifying Authority. What are the duties of Certifying Authority? (9)
- (ii) Differentiate between Cyber Contravention and Cyber Offence. (6)

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5. Explain in detail the provisions of penalties and compensation in IT Act 2000. (15)

OR

Explain in detail the provisions related to Appellate Tribunal in IT Act 2000. (15)

(200)

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2663

Unique Paper Code : 61018420

Name of the Paper : Effective Decision Making

Name of the Course : **B.Voc. (Web Designing)**
(GEC-4.3)

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 career change decision can be one of the most challenging decisions a person can make". Explain some criteria that one should consider while evaluating a career change decision?
2. Explain the various conflict handling styles at workplace? Which style is best?

P.T.O.

3. What is Decision making and what is the importance of making a good decision?
4. What is the career decision making? Describe the factors influencing career choice?
5. Describe a situation in which not having enough conflict can be a problem?
6. What are the strategies for vocational guidance in the twenty- first century? How the learner can connect self with the vocational choices?
7. Discovering self and creating an healthy acceptance of self is an essential requirement for career decision making. Comment.
8. What skills and competencies are required to make an effective decision making at workplace?

[This question paper contains 3 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2666

Unique Paper Code : 61018616

Name of the Paper : ENTREPRENEURSHIP

Name of the Course : **B.Voc. (Web Designing) /
B.Voc. (Software
Development) / B.Voc.
(Banking Financial Services
and Insurance)**

Semester : VI

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.

1. (a) Differentiate between Intrapreneurship and entrepreneurship. (8)

(b) Discuss different attributes of entrepreneurship. (7)

P.T.O.

2. (a) As an entrepreneur, prepare a business plan for your new venture. (8)
- (b) Discuss various sources by which an entrepreneur can derive ideas for his business? (7)
3. (a) Venture capitalists are often called as “deep rooted financial gurus” Explain. List the advantages of venture capitalists. (8)
- (b) Briefly explain the entrepreneurial process. (7)
4. (a) “Entrepreneurs play a critical role in shaping fortunes of any nation. Explain the role of Entrepreneurs in development of any nation. (8)
- (b) Differentiate between Debt and Equity as a source of finance. (7)
5. (a) Explain the various techniques of generating business ideas. (8)
- (b) Identify essential factors to assess the right business opportunities. (7)

6. (a) Various challenges faced by an entrepreneur for a startup. Explain. (8)
- (b) Explain the process of innovation. (7)
7. Briefly explain the various institutions, setup for supporting industry and encouraging entrepreneurship in India. (15)
8. Write short notes on the following : **(Any Two)**
- (a) Indian Institute of Entrepreneurship.
- (b) Components require to prepare a Feasibility Study of any firm.
- (c) Angel investors.

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2667

Unique Paper Code : 61018622

Name of the Paper : Industrial / Organizational
Psychology

Name of the Course : **B.Voc. (PRINTING
TECHNOLOGY)**

Semester : VI

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.

1. Define Industrial Psychology. Explain the scope and importance of psychology in modern industrial enterprise with the help of suitable examples.
2. What do you understand by Job Satisfaction? Explain the various factors that influence job satisfaction.

P.T.O.

3. Explain the term Motivation. Explain the role of human drives, needs and emotions in employee motivation and behaviour, using suitable examples.
4. What do you understand by attitude? What are its components? What is the role of manager in changing the attitude of workers?
5. Define Leadership. Explain the five basic leadership styles demonstrated by Robert R. Blake and James S. Mouton in the form of grid.
6. "Leader effectiveness is contingent upon whether the style used is appropriate to the demands of the situation." In light of this statement, explain Hersey and Blanchard's Situational Theory of Leadership.
7. What is the difference between Autocratic and Democratic Leadership style? Explain the qualities and skills of a good leader.
8. Write short notes on any **two** of the following :
 - (a) Maslow Need Hierarchy Theory
 - (b) Organizational Citizenship Behaviour
 - (c) Trait Theory of Leadership

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2668

Unique Paper Code : 61018623

Name of the Paper : Entrepreneurship and Small Business

Name of the Course : **B.Voc. (Retail Management & IT) and B.Voc (Healthcare Management)**

Semester : VI

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. All questions are compulsory and carry equal marks.

1. Explain the nature and characteristics of entrepreneurship and the steps involved in the entrepreneurship process. (15)

P.T.O.

Or

'Entrepreneurship in India has been a slow development'. Discuss the reasons thereof and suggest how entrepreneurship can be given a big boost.

2. What is the role of family business in India. Briefly discuss the reasons of conflict in family business and how they can be resolved. (15)

Or

Discuss how creativity and innovation are two different terms and how they are significant for the success of any business.

3. What are the various sources of finance available to entrepreneurs for setting up a new business? (15)

Or

Discuss the various contents of a good project report highlighting the significance of each.

4. Write short notes on any **two** of the following :
(2×7.5=15)

- (a) Basic outline of a business plan.
 - (b) Sources of business ideas.
 - (c) Difference between entrepreneur and manager.
 - (d) Role of SIDBI in the promotion of small business in India.
 - (e) Stages of a Product Life Cycle
5. (a) Explain the various problems faced by new ventures. What suggestions would you give to overcome the problems of new ventures in their growth in India? (10)
- (b) What is ABC analysis? Use an example to explain. (5)

Or

Discuss the meaning and significance of break-even point. Calculate the break-even point in units and in rupees for the Products A, B, and C given the Selling price per unit for A, B and C is Rs. 30, Rs. 45 and Rs. 60 respectively. And the variable cost per unit

P.T.O.

for product A, B and C is Rs.15, Rs. 30 and Rs. 20 respectively. Total fixed cost is Rs. 50,000. The sales mix proportion is 30%, 30% and 40% for products A, B and C respectively.

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. 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

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

SECTION A (10×2=20)

Answer all two questions.

1. 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 soft 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=30)

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 adaptability is a survival skill in 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 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 a magazine. Describe the importance of Colour and Caption 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 3 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2670

Unique Paper Code : 61018629

Name of the Paper : Communication Competence

Name of the Course : **B.Voc. (Web Designing)**
(GEC-6.1)

Semester : VI

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. The paper has **two** Sections: **A** and **B**.
3. Section **A** has **three** questions; Section **B** has **eight** questions.

Section A

(5×3=15)

Answer all three questions.

1. What are the points that a presenter must keep in mind while preparing for a speech or presentation?

P.T.O.

OR

What are the functions of transitions in a speech or presentation?

2. What are the different types of supporting material which may be used in a speech or presentation?

OR

Explain the visual and auditory aspects of speech or presentation delivery.

3. What are the differences between debilitating and facilitative stage fright?

OR

Explain Cause-Effect Patterns used in a speech presentation or delivery.

Section B

(10×6=60)

Answer any six of the following.

1. How is the ending or conclusion of a speech important? Illustrate with suitable examples.

2. What role does listening play in note-taking process?
3. What is the role of Audience Analysis while we analyse the speaking situation.
4. Explain the three levels of listening. Illustrate with appropriate examples.
5. Explain the three obstacles to listening.
6. Why are Non-Verbal skills as important as the Verbal skills in communication?
7. Explain the characteristics of Non-Verbal communication with suitable examples.
8. What is the role and responsibility of an interviewer in the planning and conducting of an interview?

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2671

Unique Paper Code : 61018630

Name of the Paper : Effective Leadership

Name of the Course : **B.Voc.**

Semester : VI

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.

1. Explain why communication is the most important skill required for effective leadership. Describe formal and informal communication network in an organization.
2. With the advent of technology, communication challenges have increased. Explain the various challenges that are faced by leaders while communicating in teams.

3. Explain the difference between a Group and a Team?
Explain the stages of development of Teams.
4. What do you understand by Emotional Intelligence?
Explain how it plays a significant role in leading teams in an effective manner.
5. Write short notes on any **two** of the following :
 - (a) Barriers to Communication
 - (b) Leadership Styles
 - (c) Team Cohesiveness
6. What are the different prerequisites for developing an effective team? Explain.
7. Discuss the functional and dysfunctional aspects of conflict in the workplace. Explain the various styles of handling conflict in a team with suitable examples.
8. What is the role of goal setting in a team? What are the various characteristics of goals for an effective team?

This question paper contains 3 printed pages.

Your Roll No.

Sl. No. of Ques. Paper: 3335

IC

Unique Paper Code : 62345625

Name of Paper : Multi-Media & Web Designing

Name of Course : B.A. (Prog.) Computer
Applications : G.E.

Semester : VI

Duration : 3 hours

Maximum Marks : 75

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

*Attempt any five questions from Q. Nos 2 to 8.
Question No. 1 is compulsory.*

1. (a) Write four output devices used in multimedia. 2
- (b) Explain the Heading tag in HTML with an example. 3
- (c) Explain the term quantization with an example. 2
- (d) What is the difference between 2D and $2\frac{1}{2}$ D animations? 3
- (e) Explain morphing with an example. 3
- (f) Describe Symbols and Icons in multimedia. 3
- (g) Explain the term Hyperlink with an example. 3
- (h) Give any two video file formats. 2

P. T. O.

- (i) Write a code to create the following structure in HTML:

$$x^2+y+z^3=2$$

- (j) What is Semantic web? 2
2. (a) Differentiate between bitmap and vector drawn objects. Describe their capabilities. 6
- (b) Create the given web page in HTML:— 4

1	2	3
	4	5
6		
7	8	9

3. (a) Explain the role of CSS in HTML. 2
- (b) Define SEO and Black Hat SEO. 4
- (c) Describe the structure of URL. 4
4. (a) What is the importance of text in multimedia? 2
- (b) Describe text-indent and text-decoration properties in terms of CSS. 4
- (c) What is multimedia? Describe any *two* applications of multimedia. 4
5. (a) Differentiate between ordered and unordered lists. 4

- (b) Create a Bio-data form in HTML (form must contain the following): 6
Text box, Check box, Button (submit/reset), Radio button, Drop down list. 4
6. (a) Differentiate between CCD and CMOS. 4
(b) What is Animation? What are the steps required to create an animation? 6
7. (a) Why are frames important in HTML? 2
(b) Write HTML program for the following: 4
- | | | |
|--------|--------|--------|
| FRAME1 | FRAME2 | FRAME3 |
|--------|--------|--------|
- (c) Describe any *four* advantages of MIDI over digital audio. 4
8. (a) What is Progressive scan and where is it used? 4
(b) What is 3D modelling software? List any four features of a good 3D modelling software. 6