May- June-2024

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B.Sc. (Graphics & Web Designing) /(IT)/ BCA (Sem.–1)
FUNDAMENTALS OF COMPUTER AND IT
Subject Code : UGCA1902

M.Code : 76962

Date of Examination : 20-06-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

   a) Information

   b) SMPS

   c) RAM

   d) Bit

   e) Utility programs

   f) Machine Language

   g) Digital Cash

   h) Applications of IT
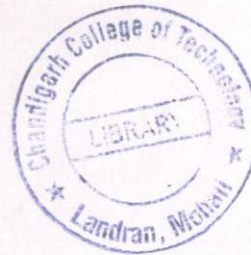
   i) Purpose of Registers

   j) Cache memory.

SECTION-B

2. Explain the concept of :

   a) Hardware and Software in a Computer System

   b) Binary Arithmetic.

3. Explain various types of devices available under Category of Input and Output Devices.

4. How Mail merge works in word processing? Explain in detail by taking suitable example.

5. Explain in detail features and various functions performed in Presentation Graphics Software.

6. Explain the Importance of :

   a) Security in Electronic transactions

   b) Digital Signature and Certification Authority.

7. Write a note on Big data and Internet of things.

(S3)-2415

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐

Total No. of Questions : 07

Total No. of Pages : 02

B.Sc. (IT)/ BCA/ B.Sc.(Graphics & Web Designing) (Sem.–1)

MATHEMATICS

Subject Code : UGCA1901

M.Code : 76961

Date of Examination : 18-06-2024

Time : 3 Hrs.

Max. Marks : 60

SECTION-A

1. Write briefly :

    a) Define negation and Tautology with example.

    b) Find $(A \cap B)$ where $A = \{1, 2, 3, 4\}$, $B = \{2, 4, 6, 8\}$

    c) How many terms of a sequence 18, 16, 14........ should be taken so that their sum is zero.

    d) Write the following statements in Symbolic form

       It is raining but not pleasant.

    e) Construct 2×3 matrix whose elements are given by $a_{ij} = 2i - j$.

    f) Define conjunction with example.

    g) Determine k so that $k + 2$, $4k - 6$, $3k - 2$ are the three consecutive of an A.P.

    h) Define Bi-conditional statement with truth table.

    i) Write down the truth table for $(\sim p \vee q)$

    j) Define null matrix.

SECTION-B

2. If $A = \begin{bmatrix} -2 & 1 & 1 \\ 3 & 1 & 0 \\ 2 & 0 & -3 \end{bmatrix}$. Evaluate $A^3 - 6A^2 + 7A - 5I$.

3. If pth term of an AP is a and qth term is b then show that the sum of $(p + q)$ terms is

    $$\frac{p+q}{2}\left[a + b + \frac{a-b}{p-q}\right].$$

4. Suppose 120 students studies Hindi, English and Punjabi. It is given that 60 students study Hindi, 45 studies English, 42 study Punjabi, 20 study Hindi and English, 25 study Hindi and Punjabi and 15 study English and Punjabi. Find the number of students who studies all the three languages.

5. Test the Validity of statement :

    If he works hard then he will be successful. If he is successful then he will be happy. Therefore, hard work lead to happiness.

6. (a) If $A = \{a, b, c, d, g\}$ and $B = \{a, e, i, o, u\}$, $C = \{e, g\}$ then determine

    (i) $B - \phi$

    (ii) $A \cup (B \cap C)$

    (b) Prove that if $A \subseteq B$, then $A \cup B = B$.

7. The sum of first n terms of two arithmetic series are in the ratio of $7n + 1 : 4n + 27$. Find the ratio of their 11th terms.

Roll No. ☐☐☐☐☐☐☐☐☐☐

Total No. of Questions : 11

Total No. of Pages : 04

B.Voc. (Child Caregiver)/B.A. (JAMC)/BBA/BBA (SIM)/B.Com (Honours)/
BCA/BHMCT (UGC)/B.Sc. - Honours (Nutrition and Dietetics)/B.Sc.
(AI&ML)/B.Sc. (Bio Technology)/B.Sc. (Fashion Design)/B.Sc. (Graphics
& Web Designing)/B.Sc. (IT)/B.Sc. (Medical Lab Sciences)/B.Sc.
(Operation Theatre Technology)/B.Sc. (Radiotherapy Technology)/
BTTM   (Sem–1)

HUMAN VALUES, DE-ADDICTION AND TRAFFIC RULES

Subject Code : HVPE-101-18

M.Code : 93322

Date of Examination : 24-06-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Section-A is compulsory.
3. Section-B contains five questions of four marks each. Attempt all.
4. Section-C contains five questions of six marks each. Attempt all.

SECTION-A   (10 × 1 = 10)

1. Write briefly :

   i) What is Utility-Value?

   उपयोगिता-मूल्य क्या हैं?

   ਉਪਯੋਗਿਤਾ-ਮੁੱਲ ਕੀ ਹੈ?

   ii) Explain Natural Acceptance.

   सहज स्वीकृति समझाओ।

   ਕੁਦਰਤੀ ਮੰਜੂਰੀ ਸਮਝਾਓ।

   iii) How the value "care" is related with body?

   मूल्य ''ध्यान'' शरीर के साथ कैसे संबंधित है?

   ਮੁੱਲ ਧਿਆਨ ਸਰੀਰ ਦੇ ਨਾਲ ਕਿਵੇਂ ਸਬੰਧਤ ਹੈ?

   iv) What do you mean by Respect?

   आपका सम्मान से क्या मतलब है?

   ਤੁਹਾਡਾ ਆਦਰ ਤੋਂ ਕੀ ਮਤਲਬ ਹੈ?

[M-93322]

(S-17) 2499

   v) What is Perseverance?

   अटलता क्या है?

   ਧੀਰਜ ਕੀ ਹੈ?

   vi) What is the difference between prosperity and wealth?

   समृद्धि और धन के बीच क्या अंतर है?

   ਖੁਸ਼ਹਾਲੀ ਅਤੇ ਅਮੀਰੀ ਦੇ ਵਿੱਚ ਕੀ ਅੰਤਰ ਹੈ?

   vii) What is Holistic System?

   समग्र प्रणाली क्या है?

   ਸਰਵਭੌਮਿਕ ਪ੍ਰਣਾਲੀ ਕੀ ਹੈ?

   viii) What is Cyclic Production?

   चक्रीय उत्पादन क्या है?

   ਚਕਰੀ ਉਤਪਾਦਨ ਕੀ ਹੈ?

   ix) What is Existence?

   अस्तित्व क्या हैं?

   ਅਸਤੀਤਵ ਕੀ ਹੈ?

   x) What is value of any Unit in the larger order?

   बड़े आदेश में किसी भी इकाई का क्या मूल्य है?

   ਵੱਡੇ ਆਦੇਸ਼ ਵਿੱਚ ਕਿਸੇ ਵੀ ਇਕਾਈ ਦਾ ਕੀ ਮੁੱਲ ਹੈ?

SECTION-B   (5 × 4 = 20)

2. What is the need for value education in technical and other professional Institutions?

तकनीकी एवं अन्य व्यावसायिक संस्थानों में मूल्यपरक शिक्षा की क्या आवश्यकता है?

ਤਕਨੀਕੀ ਅਤੇ ਹੋਰ ਪੇਸ਼ੇਵਰ ਸੰਸਥਾਵਾਂ ਵਿੱਚ ਮੁੱਲ ਦੀ ਸਿੱਖਿਆ ਦੀ ਕੀ ਲੋੜ ਹੈ?

3. Self-exploration is a process of dialogue between 'What you are' and 'What you really want to be'. Explain and illustrate.

आत्म-अन्वेषण 'आप क्या हैं' आप वास्तव में क्या बनना चाहते हैं' में आपस संवाद की एक प्रक्रिया है। समझाओ और व्याख्या करो।

ਸਵੈ-ਖੋਜ 'ਤੁਸੀਂ ਕੀ ਹੋ' ਅਤੇ 'ਤੁਸੀਂ ਅਸਲ ਵਿੱਚ ਕੀ ਬਣਨਾ ਚਾਹੁੰਦੇ ਹੋ' ਵਿੱਚ ਆਪਸ ਸੰਵਾਦ ਦੀ ਇੱਕ ਪ੍ਰਕਿਰਿਆ ਹੈ। ਸਮਝਾਓ ਅਤੇ ਵਿਆਖਿਆ ਕਰੋ।

[M-93322]

(S-17) 2499

4. What are the problems we are facing today because of operating on the basis of pre-conditioned desires?

पूर्व–मानता इच्छाओं के आधार पर परिचालन करने से हम आज क्या-क्या समस्याओं का सामना कर रहे हैं?

ਪੂਰਵ–ਮਾਨਤਾ ਇੱਛਾਵਾਂ ਦੇ ਆਧਾਰ ਉੱਤੇ ਚੱਲਣ ਕਰਕੇ ਅੱਜ ਅਸੀਂ ਕਿਹੜੀਆਂ ਸਮੱਸਿਆਵਾਂ ਦਾ ਸਾਮਣਾ ਕਰ ਰਹੇ ਹਾਂ?

5. Explain competence in Professional-Ethics.

पेशेवर नैतिकता में क्षमता समझाओ।

ਪੇਸ਼ੇਵਰ ਨੈਤਿਕਤਾ ਵਿੱਚ ਸਮਰੱਥਾ ਸਮਝਾਓ।

6. What do you understand by the terms Sweta, Swatantrate and Swarajya?

श्वेता, स्वतंत्रता और स्वराज्य शब्दों से आप क्या समझते हैं? क्या आपको लगता है कि आपके पास कुछ पूर्व मानता है? आप उनका मूल्यांकन कैसे करते हैं?

ਤੁਸੀਂ ਸ਼ਵੇਤਾ, ਸਵਤੰਤਰਤਾ ਅਤੇ ਸਵਰਾਜ ਸ਼ਬਦਾਂ ਤੋਂ ਕੀ ਸਮਝਦੇ ਹੋ? ਕੀ ਤੁਹਾਨੂੰ ਲੱਗਦਾ ਹੈ ਕਿ ਤੁਹਾਡੇ ਕੋਲ ਕੁੱਝ ਪੂਰਵ ਮਾਨਤਾ ਹੈ? ਤੁਸੀਂ ਉਸਦਾ ਮੁਲਾਂਕਨ ਕਿਵੇਂ ਕਰਦੇ ਹੋ?

SECTION-C   (5 × 6 = 30)

7. "*I will learn and improve only if I am unhappy. If I become happy, my learning will stop*". Explore the validity of this viewpoint.

''मैं तभी सीखूंगा और सुधार करूंगा जब मैं नाखुश हूं। अगर मैं खुश हो जाऊं तो मेरी सिखलाई बंद हो जाएगी।'' इस दृष्टिकोण की वैधता का अन्वेषण करें।

''ਮੈਂ ਤਾਂ ਹੀ ਸਿੱਖਾਂਗਾ ਅਤੇ ਸੁਧਾਰਾਂਗਾ ਜੇ ਮੈਂ ਨਾਖੁਸ਼ ਹਾਂ। ਜੇਕਰ ਮੈਂ ਖੁਸ਼ ਹੋ ਗਿਆ ਤਾਂ ਮੇਰੀ ਸਿਖਲਾਈ ਬੰਦ ਹੋ ਜਾਵੇਂਗੀ'' ਇਸ ਦ੍ਰਿਸ਼ਟੀਕੋਣ ਦੀ ਵੈਧਤਾ ਦੀ ਪੜਚੋਲ ਕਰੋ।

8. Why are physical facilities required? What do you mean by the right utilization of the Body?

भौतिक सुविधाओं की आवश्यकता क्यों है? शरीर के सही उपयोग से आप क्या समझते हैं?

ਭੌਤਿਕ ਸਹੂਲਤਾਂ ਦੀ ਲੋੜ ਕਿਉਂ ਹੈ? ਸਰੀਰ ਦੀ ਸਹੀ ਵਰਤੋਂ ਤੋਂ ਤੁਹਾਡਾ ਕੀ ਮਤਲਬ ਹੈ?

9. What do you mean by coexistence? How are units in coexistence being in space?

सह-अस्तित्व से आप क्या समझते हैं? अंतरिक्ष में इकाइयाँ सह-अस्तित्व में कैसे हैं?

ਸਹਿਹੋਂਦ ਤੋਂ ਤੁਹਾਡਾ ਕੀ ਮਤਲਬ ਹੈ? ਪੁਲਾੜ ਵਿੱਚ ਇਕਾਈਆਂ ਸਹਿ–ਹੋਂਦ ਕਿਵੇਂ ਹੁੰਦੀਆਂ ਹਨ?

10. Critically exmine the issues in professional ethics in the current scenario. List any five unethical practices in profession today and the methods being tried to curb them. Comment on the long-term effectiveness of these methods.

वर्तमान परिदृश्य में व्यावसायिक नैतिकता के मुद्दों का आलोचनात्मक परीक्षण करें। आज पेशे में किन्हीं पांच अनैतिक प्रथाओं और उन पर अंकुश लगाने के लिए अपनाए जा रहे तरीकों की सूची बनाएं। इन विधियों की दीर्घकालिक प्रभावशीलता पर टिप्पणी करें।

ਮੌਜੂਦਾ ਸਥਿਤੀ ਵਿੱਚ ਪੇਸ਼ੇਵਰ ਨੈਤਿਕਤਾ ਦੇ ਮੁੱਦਿਆਂ ਦੀ ਗੰਭੀਰਤਾ ਨਾਲ ਜਾਂਚ ਕਰੋ। ਅੱਜ ਪੇਸ਼ੇ ਵਿੱਚ ਕਿਸੇ ਵੀ ਪੰਜ ਅਨੈਤਿਕ ਅਭਿਆਸਾਂ ਅਤੇ ਉਹਨਾਂ ਨੂੰ ਰੋਕਣ ਦੇ ਤਰੀਕਿਆਂ ਦੀ ਸੂਚੀ ਬਣਾਓ। ਇਹਨਾਂ ਤਰੀਕਿਆਂ ਦੀ ਲੰਬੇ ਸਮੇਂ ਦੀ ਪ੍ਰਭਾਵਸ਼ੀਲਤਾ ਤੇ ਟਿੱਪਣੀ ਕਰੋ।

11. What do you the abbreviations given as SVDD, SSDD and SSSS signify? Explain the reason for the state SSDD.

SVDD, SSDD और SSSS के रूप में दिए गए संक्षिप्ताक्षर क्या दर्शाते हैं? SSDD की स्थिति का कारण बताएं।

ਤੁਹਾਨੂੰ SVDD, SSDD ਅਤੇ SSSS ਦੇ ਰੂਪ ਵਿੱਚ ਦਿੱਤੇ ਗਏ ਸੰਖੇਪ ਰੂਪ ਕੀ ਦਰਸਾਉਂਦੇ ਹਨ। SSDD ਸਥਿਤੀ ਦਾ ਕਾਰਨ ਦੱਸੋ।

Note : Any student found attempting answer sheet from any other person(s), using incriminating material or involved in any wrong activity reported by evaluator shall be treated under UMC provisions.

Student found sharing the question paper(s)/answer sheet on digital media or with any other person or any organization/institution shall also be treated under UMC.

Any student found making any change/addition/modification in contents of scanned copy of answer sheet and original answer sheet, shall be covered under UMC provisions.

B.Com.(Hons.)/BA(JAMC)/ BHMCT/B.Sc.(Hons.)(Nutrition and Dietetics)/(AI & ML)(BT)/(FD)(G&WD)(IT)/(MLS)/ B.Voc. (Beauty Therapy and Aesthetics)/BTTM/BBA(SIM)/BCA(Sem.–1)

ENGLISH

Subject Code : BTHU103-18

M.Code : 75085

Date of Examination : 15-06-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. All questions are COMPULSORY.
2. Q1, Q2 and Q3 carry TEN marks each.
3. Q4 and Q5 carry FIFTEEN marks each.

1. What do you mean by Communication? Discuss in detail, the types of Communication.

2. Explain in detail the barriers to communication. Also, suggest the ways to overcome these barriers.

3. **Paraphrase the following:**

   The proliferation of smartphones have revolutionized the way people communicate and access information. With the advent of mobile technology, individuals can now connect with others instantly, regardless of their location. Smartphones serve as multifunctional devices, providing access to social media platforms, email, web browsing, and countless apps for entertainment and productivity. As a result, people have become increasingly reliant on their smartphones for daily tasks and communication, blurring the lines between work and leisure.

4. **On the basis of your reading of the following paragraph, answer the questions:**

   The melting of polar ice caps due to global warming poses significant threats to both wildlife and human populations inhabiting coastal regions. As polar ice melts, sea levels rise, increasing the risk of flooding in low-lying areas and displacing communities. Furthermore, the loss of sea ice deprives species such as polar bears and seals of crucial habitat, leading to declines in their populations and disrupting entire marine ecosystems. Additionally, the influx of freshwater from melting ice alters ocean currents and salinity levels, affecting global climate patterns and exacerbating extreme weather events. Addressing the melting polar ice caps requires urgent action to mitigate greenhouse gas emissions, promote sustainable energy sources, and implement adaptation strategies for vulnerable communities.

Answer the questions:

i) What are the primary threats posed by the melting of polar ice caps to both wildlife and human populations?

ii) How does the loss of sea ice impact marine ecosystems?

iii) What are some of the broader consequences of melting polar ice caps on global climate patterns and weather?

iv) What actions are suggested to address the issue of melting polar ice caps and its associated impacts?

v) **Write the meaning of the words:** deprives and exacerbating.

5. Write a report on the impact of urbanization on local ecosystems.

Roll No. ☐☐☐☐☐☐☐☐☐☐☐
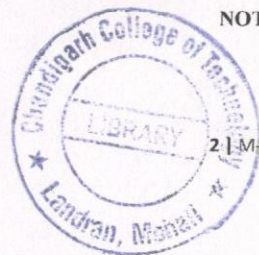
Total No. of Pages : 02

Total No. of Questions : 07

Bachelor of Science (Graphics & Web Designing) (Sem.–5)
LINUX OPERATING SYSTEM
Subject Code : UGCA1935
M.Code : 90380
Date of Examination : 20-06-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

   a) What is the VI editor?

   b) Is KDE slower than GNOME?

   c) What is the purpose of shell and kernel?

   d) What information is presented when these commands are entered:

      (i) passwd

      (ii) who?

   e) What is grep command used for in Linux?

   f) How to do a backup on Linux?

   g) What is meant by path and pathname in Linux?

   h) What is swap space?

   i) Mention the Linux file structure components.

   j) List some methods of virtualization available on Linux.

SECTION-B

2. Write a shell program for counting characters, words and line?

3. a) Explain the kernel support for file system.

   b) Explain about symlink () function with example program.

4. Explain ftp and its importance in Linux?

5. What are the functions of the kernel? Describe the process of rebuilding and installing kernel.

6. What are the file types available in Linux? Discuss file operators with suitable examples.

7. **Explain briefly :**

   a) Graphic Tools and Multimedia

   b) Internet and Network Services.

Roll No. ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚ Total No. of Pages : 04

Total No. of Questions : 11

B.A.(JAMC) / BBA / B.Com (Hons) / BCA / BHMCT / B.Sc. Hons.
(Nutrition and Ditetics / Fashion Design / Graphics & Web Designing /
Information Technology / Medical Lab Sciences / Operation Theatre
Technology)/ BTTM / M.Com (Sem.–1, 2)

HUMAN VALUES, DE-ADDICTION & TRAFFIC RULES

Subject Code : HVPE101-18

M.Code : 75087

Date of Examination : 08-05-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is compulsory.
2. SECTION-B contains FIVE questions. Each question carry FOUR marks. Attempt All.
3. SECTION-C contains FIVE questions with internal choice. Each question carry SIX marks. Attempt All.

SECTION-A   (10 × 1 = 10)

1. **Write briefly :**

   a) How the value "Guidance" is related with self.

   मूल्य ''मार्गदर्शन'' स्वयं के साथ कैसे संबंधित है?

   ਮੁੱਲ ਅਗਵਾਈ ਸਵੈ ਦੇ ਨਾਲ ਕਿਵੇਂ ਸੰਬੰਧਿਤ ਹੈ?

   b) What do you mean by respect?

   आपका सम्मान से क्या मतलब है?

   ਤੁਹਾਡਾ ਆਦਰ ਤੋਂ ਕੀ ਮਤਲਬ ਹੈ?

   c) What is animal order?

   जीव आदेश क्या है?

   ਜੀਵ ਆਦੇਸ਼ ਕੀ ਹੈ?

   d) What is innateness?

   स्वाभाविकता क्या है?

   ਸਵਾਭਾਵਿਕਤਾ ਕੀ ਹੈ?

   e) What is Utility-Value?

   उपयोगिता-मूल्य क्या है?

   ਉਪਯੋਗਿਤਾ-ਮੁੱਲ ਕੀ ਹੈ?

   f) What is value of any unit in the larger order?

   बड़े आदेश में किसी भी इकाई का क्या मूल्य है?

   ਵੱਡੇ ਆਦੇਸ਼ ਵਿੱਚ ਕਿਸੇ ਵੀ ਇਕਾਈ ਦਾ ਕੀ ਮੁੱਲ ਹੈ?

   g) What is Holistic System?

   समग्र प्रणाली क्या है?

   ਸਰਬੰਗੀਮਿਕ ਪ੍ਰਣਾਲੀ ਕੀ ਹੈ?

   h) What is Perseverance?

   अटलता क्या है?

   ਧੀਰਜ ਕੀ ਹੈ?

   i) Explain Natural Acceptance.

   सहज स्वीकृति समझाओ।

   ਕੁਦਰਤੀ ਮੰਜੂਰੀ ਸਮਝਾਓ।

   j) What is Mutual Fulfilment?

   पारस्परिक पूर्ति क्या है?

   ਆਪਸ ਦੀ ਪੂਰਤੀ ਕੀ ਹੈ?

SECTION-B   (5 × 4 = 20)

2. What is the need for value education in technical and other professional Institutions?

   तकनीकी एवं अन्य व्यावसायिक संस्थानों में मूल्यपरक शिक्षा की क्या आवश्यकता है?

   ਤਕਨੀਕੀ ਅਤੇ ਹੋਰ ਪੇਸ਼ੇਵਰ ਸੰਸਥਾਵਾਂ ਵਿੱਚ ਮੁੱਲ ਦੀ ਸਿੱਖਿਆ ਦੀ ਕੀ ਲੋੜ ਹੈ?

3. What do you mean by SVDD, SSDD and SSSS? How is the transformation possible from SSDD to SSSS?

   आपका SVDD, SSDD और SSSS से क्या मतलब है? SSDD से SSSS तक के लिए परिवर्तन कैसे संभव है?

   ਤੁਹਾਡਾ SVDD, SSDD ਅਤੇ SSSS ਤੋਂ ਕੀ ਮਤਲਬ ਹੈ? SSDD ਤੋਂ SSSS ਤੱਕ ਦੀ ਤਬਦੀਲੀ ਕਿਸ ਤਰ੍ਹਾਂ ਸੰਭਵ ਹੈ?

4. What do you mean by Animal Consciousness and Human Consciousness? How is the transformation possible from Animal Consciousness to Human Consciousness?

आपका पशु चेतना और मानव चेतना से क्या मतलब है? पशु चेतना से मानव चेतना परिवर्तन कैसे संभव है?

ਤੁਹਾਡਾ ਪਸ਼ੂ ਚੇਤਨਾ ਅਤੇ ਮਨੁੱਖੀ ਚੇਤਨਾ ਤੋਂ ਕੀ ਮਤਲਬ ਹੈ? ਪਸ਼ੂ ਚੇਤਨਾ ਤੋਂ ਮਨੁੱਖੀ ਚੇਤਨਾ ਤੱਕ ਦੀ ਤਬਦੀਲੀ ਕਿਸ ਤਰ੍ਹਾਂ ਸੰਭਵ ਹੈ?

5. Explain competence in Professional-Ethics.

पेशेवर नैतिकता में क्षमता समझाओ।

ਪੇਸ਼ੇਵਰ ਨੈਤਿਕਤਾ ਵਿੱਚ ਸਮਰੱਥਾ ਸਮਝਾਓ।

6. What are the implications of value based living?

मूल्य आधारित जीवन यापन के अच्छे परिणाम क्या हैं?

ਕਦਰਾਂ ਕੀਮਤਾਂ ਆਧਾਰਿਤ ਜੀਵਨ ਜੀਉਣ ਦੇ ਚੰਗੇ ਨਤੀਜੇ ਕੀ ਹਨ?

SECTION-C   (6 × 5 = 30)

7. Compare the Four Orders in nature on the basis of their salient aspects.

मुख्य पहलुओं के आधार पर प्रकृति में चार आदेशों की तुलना करें।

ਮੁੱਖ ਪਹਿਲੂਆਂ ਦੇ ਆਧਾਰ ਉੱਤੇ ਕੁਦਰਤ ਵਿੱਚ ਚਾਰ ਆਦੇਸ਼ਾਂ ਦੀ ਤੁਲਨਾ ਕਰੋ।

OR

What is the meaning and purpose of Self-Exploration?

स्वयं-अन्वेषण के अर्थ और उद्देश्य क्या है?

ਆਤਮ - ਅਧਿਐਨ ਦੇ ਮਤਲੱਬ ਅਤੇ ਉਦੇਸ਼ ਕੀ ਹਨ?

8. Describe basic human aspirations. What are the requirements to fulfill basic human aspirations?

बुनियादी मानवीय आकांक्षाएं क्या हैं? बुनियादी मानवीय आकांक्षाओं को पूरा करने के लिए आवश्यकताओं का वर्णन करें?

ਬੁਨਿਆਦੀ ਮਨੁੱਖੀ ਇੱਛਾਵਾਂ ਕੀ ਹਨ? ਬੁਨਿਆਦੀ ਮਨੁੱਖੀ ਇੱਛਾਵਾਂ ਨੂੰ ਪੂਰਾ ਕਰਨ ਲਈ ਜ਼ਰੂਰਤਾਂ ਦਾ ਵਰਣਨ ਕਰੋ?

OR

What are the different patterns of differentiation?

भेदभाव के विभिन पैटर्न क्या हैं?

ਫਰਕ ਦੇ ਵੱਖ-ਵੱਖ ਪੈਟਰਨ ਕੀ ਹਨ?

9. What is the difference between belief and understanding?

विश्वास और समझ में क्या अंतर है?

ਵਿਸ਼ਵਾਸ ਅਤੇ ਸਮਝ ਵਿੱਚ ਕੀ ਅੰਤਰ ਹੈ?

OR

What are the programmes to ensure Helath?

स्वास्थ्य को सुनिश्चित करने के लिए क्या-क्या कार्यक्रम हैं?

ਸਿਹਤ ਨੂੰ ਠੀਕ ਰੱਖਣ ਲੀ ਕਿਹੜੇ-ਕਿਹੜੇ ਤਰੀਕੇ ਹਨ?

10. Critically examine our state today in terms of fulfillment of relationships and physical facilities. What has gone wrong according to you? What is the solution?

रिश्तों की पूर्ति और भौतिक सुविधाओं की दृष्टि से आज हमारी स्थिति का आलोचनात्मक परीक्षण करें। आपके अनुसार क्या ग़लत हुआ है? क्या निदान हैं?

ਰਿਸ਼ਤਿਆਂ ਅਤੇ ਭੌਤਿਕ ਸਹੂਲਤਾਂ ਦੀ ਪੂਰਤੀ ਦੇ ਮਾਮਲੇ ਵਿੱਚ ਅੱਜ ਸਾਡੇ ਰਾਜ ਦੀ ਗੰਭੀਰਤਾ ਨਾਲ ਜਾਂਚ ਕਰੋ। ਤੁਹਾਡੇ ਅਨੁਸਾਰ ਕੀ ਗਲਤ ਹੋਇਆ ਹੈ? ਹੱਲ ਕੀ ਹੈ?

OR

What are the five dimensions of Human Endeavour in society?

समाज में मानव प्रयास के पांच आयाम क्या हैं?

ਸਮਾਜ ਵਿੱਚ ਮਨੁੱਖ ਕੋਸ਼ਿਸ਼ ਦੇ ਪੰਜ ਪਹਿਲੂ ਕੀ ਹਨ?

11. Explain self-organisation and health.

आत्म संगठन और स्वास्थ्य के बारे में बताएं।

ਆਤਮ ਸੰਗਠਨ ਅਤੇ ਸਿਹਤ ਦੇ ਬਾਰੇ ਵਿੱਚ ਦੱਸੋ।

OR

Suggest ways to enhance the fulfillment of human order with the other three orders. Mention any two programs you can undertake in light of the above.

अन्य तीन आदेशों के साथ मानव आदेश की पूर्ति को बढ़ाने के तरीके सुझाएं। उपरोक्त के आलोक में किन्हीं दो कार्यक्रमों का उल्लेख करें जिन्हें आप अपना सकते हैं।

ਹੋਰ ਤਿੰਨ ਆਦੇਸ਼ਾਂ ਦੇ ਨਾਲ ਮਨੁੱਖੀ ਆਦੇਸ਼ ਦੀ ਪੂਰਤੀ ਨੂੰ ਵਧਾਉਣ ਦੇ ਤਰੀਕਿਆਂ ਦਾ ਸੁਝਾਅ ਦਿਓ। ਕਿਸੇ ਵੀ ਦੋ ਪ੍ਰੋਗਰਾਮਾਂ ਦਾ ਜ਼ਿਕਰ ਕਰੋ ਜੋ ਤੁਸੀਂ ਉਪਰੋਕਤ ਦੀ ਰੌਸ਼ਨੀ ਵਿੱਚ ਸ਼ੁਰੂ ਕਰ ਸਕਦੇ ਹੋ।

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Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐

Total No. of Questions : 07

Total No. of Pages : 02

B.Sc. (Graphics and Web Designing) (Sem.–2)
FUNDAMENTALS OF STATISTICS
Subject Code : UGCA/1907
M.Code : 77728
Date of Examination : 08-05-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Answer briefly :

   a) Features of Statistics.

   b) Methods of data collection.

   c) *"Statistics can prove anything"*. Discuss this statement.

   d) Give formula to calculate mean median and mode in individual discrete and continuous series.

   e) Which method of Central tendency out of mean, median and mode do you considered to be the best and why?

   f) Objectives of Classification.

   g) Coefficient of Variation.

   h) Components of a Statistical Table.

   i) Graphic presentation of data.

   j) Harmonic Mean.

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SECTION-B

2. Write the definition of Statistics in singular and plural sense? Write also its importance, scope and limitations.

3. 100 surnames were randomly picked up from a local telephone directory and frequency distributions of the number of letters in the English alphabets in the surname were obtained as follows :

No. of letter	1-4	4-7	7-10	10-13	13-16	16-19
No. of surnames	6	30	40	16	4	4

Determine the MEDIAN no. of letters in the surname. Find the MEAN no. of letters in the surname. Also find the MODAL size of the surname.

4. The MEDIAN of the following data is 525. Find the values of x and y if the total frequency is 100.

Class Interval	0-100	100-200	200-300	300-400	400-500	500-600	600-700	700-800	800-900	900-1000
Frequency	2	5	X	12	17	20	y	9	7	4

5. Explain the various methods for collecting primary data and secondary data.

6. Calculate the MODE of the following series :

Marks:	5	10	15	20	25	30	35	40	45	50
No. of the students:	20	43	75	67	72	45	39	9	8	6

7. List down the advantages and disadvantages of the Graphic presentation of the data.

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B.Sc. (GWD) (Sem.–2)

CONCEPTS OF WEBSITE DESIGNING & DEVELOPMENT

Subject Code : UGWD/1903

M.Code : 77729

Date of Examination : 11-05-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write short note on the following :

   a) Briefly explain what the benefits of using dynamic IP allocation are.

   b) Briefly explain any two methods for user authentication on a website.

   c) How sessions are maintained on a website? What are the benefits of using sessions?

   d) What constitute to user experience (UX)? Name few methods to improve UX.

   e) How sitemap of any website help in navigation? Show with an example.

   f) Differentiate between HTML and XML languages.

   g) Explain briefly any two properties of a DBMS.

   h) Write short note on Joomla.

   i) With help of a diagram, demonstrate the working of a search engine.

   j) Write short note on shortlinks.

SECTION-B

2. With help of diagrams, show all the steps of accessing a webpage starting from typing URL to receiving the response of the request.

3. Explain in detail the differences between static and dynamic website. Also, explain how dynamic website helps in better user engagement.

4. Is cache management critical to improve responsiveness of a website? Support your answer with adequate reasoning.

5. What is the role of Content Management System (CMS) in developing a website? What are the various characteristics of an effective CMS? Explain in detail.

6. Mention different practices of effective SEO. What is the role of preparing meaningful URLs in SEO?

7. What is indexing in SEO? Explain any page ranking algorithm in details with diagrams/tables.

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Total No. of Questions : 07

Bachelor of Science (G&WD)   (Sem.–2)

OBJECT ORIENTED PROGRAMMING USING C++

Subject Code : UGCA/1909
M.Code : 77730
Date of Examination : 15-05-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

   a) What is the use of constructors?

   b) What is the use of copy constructors?

   c) What is a virtual class?

   d) How a file is opened in C++?

   e) What is a friend functions?

   f) How is object different from a class?

   g) What is meant by initialization of a variable?

   h) What is polymorphism?

   i) What is the advantage of scope resolution operator?

   j) What is a destructor?

SECTION-B

2. What are classes, and what are its various types of members? Give relevant examples to explain.

3. Write a class to represent a vector (a series of float values). Include member functions to perform the following tasks :

   a) To create the vector

   b) To modify the value of a given element

   c) To multiply by a scalar value

   d) To display the vector in the form (10,20,30,...)

   Write a program to test your class.

4. Write a program to copy the contents of one file into another.

5. What do you understand by inheritance? Give its various types and access mechanisms.

6. Write a program to copy the contents of one file into another using command line arguments.

7. Write short notes on :

   a. Overloading of template

   b. Exception handling

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Total No. of Questions : 07

B.Sc. (G&WD) (Sem - 2)

ENVIRONMENTAL STUDIES

Subject Code : EVS/102/18

M Code : 77734

Date of Examination : 18-05-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write Short notes on :

    i.   Greenhouse gases

    ii.   Flora and Fauna

    iii. Land pollution causes

    iv.   Rainwater harvesting

    v.   Types of biodiversity

    vi.   Effects of rise in sea levels

    vii. Surface water bodies

    viii. Endemic species

    ix.   Forest Conservation Act

    x.   Effects of air Pollution

SECTION-B

2. Describe the different ecological pyramids and their implications.

3. i) Describe the different hotspots of biodiversity in India.

    ii) Discuss, why is it necessary to conserve biodiversity.

4. i) Suggest different measures to control the pollution of water bodies.

    ii) Describe the different ways to conserve water.

5. Describe in detail the causes of global warming. Also enlist its ill effects on planet earth.

6. Discuss the different means to conserve biodiversity.

7. i) How does desertification of land happen?

    ii) Brief about the cyclones and landslides.

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Total No. of Questions : 07

Total No. of Pages : 02

B.Sc. (G & W.D / I.T) / BCA (Sem.–3)
DATA STRUCTURES
Subject Code : UGCA-1915
M.Code : 78181
Date of Examination : 19-06-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1.   Write briefly :

   a) Discuss analysis of Algorithm.

   b) What is Dynamic Memory?

   c) Discuss Double Linked List.

   d) What is a Pointer?

   e) Write a short note on Strings.

   f) Explain multiple stack.

   g) What is B Tree?

   h) Discuss Quick sort.

   i) Write concept of Graph Traversal.

   j) What is Hash Collision?

SECTION-B

2.   Write an operation to Delete *n* nodes after *m* nodes of a linked list.

3.   Discuss various operations on queues. How it can be implemented?

4.   How a two dimensional array is represented in memory?

5.   Give the brief introduction to AVL trees and its applications in data structure.

6.   What is Hashing? Write the types of Hash Function.

7.   Discuss use and working of Shortest Path Algorithm.

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Total No. of Questions : 07

B.Sc. (Graphics & Web Designing) (Sem.–3)

ELEMENTS OF DESIGN

Subject Code : UGWD1905

M.Code : 78472

DATE OF Examination : 11-06-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

   a) List the fundamental elements of design.

   b) What is the significance of line and shape in visual composition?

   c) Define positive and negative space in design.

   d) What is the importance of unity and variety in design?

   e) What are the five elements of perception?

   f) Define unity in the context of composition.

   g) What are radial balance and its application in design?

   h) What are the primary colors and how are they used in color mixing?

   i) Explain the concept of tertiary colors and give an example.

   j) What is the difference between Harmony and Rhythm?

SECTION-B

2. a) What are the key elements of critical thinking when analyzing 2D art?

   b) What is design space, and how does it influence the arrangement of visual elements?

3. Write a detailed note on the three fundamental principles of composition in art.

4. Explain how the use of black and white in design composition creates contrast? What effect does this contrast have on the viewer's perception?

5. What is a color wheel? How do primary colors combine to create secondary colors? Explain.

6. Write the characteristics and applications of complimentary color schemes. How do these schemes create visual harmony and balance in compositions?

7. Write notes on following topics :

   a) Concept of Warm color and Cool color.

   b) Positive and Negative Composition.

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Total No. of Questions : 07

Total No. of Pages : 02

B.Sc. (G&WD) (Sem.–3)
DATABASE MANAGEMENT SYSTEMS
Subject Code : UGCA1922
M.Code : 78473
Date of Examination : 13-06-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

    a. Entity

    b. DDL

    c. Components of DBMS

    d. Database Trigger

    e. Data Redundancy

    f. DCL

    g. DKNF

    h. Symbols used in ER Modelling

    i. SQL

    j. Database Integrity.
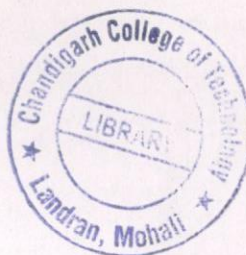
SECTION-B

2. Compare Network, Hierarchical and Relational Models.

3. Write a note on Cursors and Stored Procedures.

4. Explain in detail First Three Normal Forms used in Normalizations with suitable examples.

5. Explain the concept of Multi-valued and Join dependencies with suitable examples.

6. What do you understand by Concurrency Management, Integrity and control used in databases?

7. Explain in detail the design of distributed databases.

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'0 0 MAY 2024

B.Sc. (Graphics & Web Designing) (Sem.–3)
IMAGE EDITING & PHOTOGRAPHY
Subject Code : UGWD1907
M.Code : 78477
Date of Examination : 15-06-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

    a) Discuss different camera modes for video and imaging photography.

    b) Why different angles are used in Black and White image acquisition.

    c) What is the importance of illuminance lighting in indoor and outdoor photography?

    d) What is the difference between low resolution and low contrast Image Editing?

    e) Discuss various internet/web image formats along with preferred one used to publish internet images.

    f) What is the purpose of blemishes image editing in photography?

    g) What is the purpose of 'Low ISO', 'Slow shutter speed' and 'Auto white balance' in camera settings.

    h) What do you mean by image compression. Differentiate between loss-less and lossy compression techniques.

    i) How the analogue light energy is converted into digital discrete values and what name is given to this process?

    j) Define 'color image', 'gray-levels image' and 'binary images'.

SECTION-B

2. Discuss different hardware components of a digital camera. Give details of indoor and outdoor videography component used with cameras in night-time and day-time photography.

3. How would you design an engaging composition?

4. What do you mean by 'image-sequence' and 'image-frame'? How these are used in movie editing and movie making.

5. What are lighting tools used with night-time photography? How, 256-intensity level light illuminated images are acquired in night-time.

6. Discuss in detail: natural light, flat-light, backlight, soft-light, hard-light, Rim-light, Loop light, broad light, short light, Butterfly light, split light and Rembrandt light in photography.

7. What is camera exposure? Discuss camera. What is shutter-speed of a digital camera? How it is used to acquire the still photographs of moving objects exposure compensation and camera aperture role in high quality image acquisition?

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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (Graphics and Web Designing) (Sem.–4)

ANIMATION ART

Subject Code : UGWD1909

M.Code : 79531

Date of Examination : 13-05-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Answer briefly :

   a. Surface

   b. Contrast

   c. Light & shadow

   d. 3 Dimension

   e. Impact

   f. Proportion

   g. Tilt

   h. OTS

   i. Visual Balance

   j. Curved Lines.

SECTION-B

2. Discuss the effects of light and shadow on objects.

3. Discuss the theory of view point.

4. What ways would you represent trees, plants, brushes and shrubs with attention to proportion volume and behavior?

5. Explain how would you draw from a mannequin?

6. Discuss balance rhythm and proportion with respect to human figure.

7. Describe the process of drawing moments of camera in a story board.

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Total No. of Questions : 07

Total No. of Pages : 02

B.Sc. (Graphics and Web Designing) (Sem.–4)
COMPUTER GRAPHICS
Subject Code : UGCA1934
M.Code : 79532
Date of Examination : 14-05-2024

Time : 3 Hrs.

Max. Marks : 60

SECTION-A

1. Answer briefly :

   a. What is the relationship between the rotations R_θ, $R_{-\theta}$ and R_θ^{-1}?

   b. What are emissive and non-emissive displays? Give examples of each.

   c. Show that the composition of two rotations is additive by concatenating the matrix representations for $R(\theta_1)$ and $R(\theta_2)$ to obtain $R(\theta_1).R(\theta_2)= R(\theta_1+\theta_2)$.

   d. What are vanishing points?

   e. What are the various anomalies associated with perspective projections?

   f. What is scan conversion? What is its need?

   g. In painterly drawings, why parallel railway tracks are shown to converge at horizon?

   h. Write a transformation matrix for reflection about xz-plane.

   i. What is lookup table? What is its use?

   j. What is window and viewport?

SECTION-B

2. a. Find the normalization transformation that maps a window whose lower left corner is at $(1,1)$ and upper right corner is at $(3,5)$ onto a viewport that is the entire normalized device screen.

   b. Reflect the diamond-shaped polygon whose vertices are A(-1,0), B(0,-2), C(1,0), and D(0,2) about the line $y=x+2$.

3. Given a unit cube with one corner at $(0,0,0)$ and the opposite corner at $(1,1,1)$, derive the transformations necessary to rotate the cube by Θ degrees about the main diagonal (from $(0,0,0)$ to $(1,1,1)$) in the counterclockwise direction when looking along the diagonal towards the origin.

4. Describe in detail Sutherland-Hodgeman polygon clipping algorithm. What is the problem that this algorithm encounters when applied on concave polygons.

5. Derive the general perspective transformation onto a plane with reference point $R_0(x_0,y_0,z_0)$, normal vector $N = n_1 I + n_2 J + n_3 K$, and using C(a, b, c) as the centre of projection.

6. Write 8-connected boundary filling algorithm. Out of 4-connected and 8-connected boundary fill algorithm, which algorithm would you use to fill a region bounded by 8-connected boundary?

7. Write short notes on :

   a. Morphing techniques

   b. Character Generation

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B.Sc. (Graphics and Web Designing) (Sem.–4)

VIDEO EDITING

Subject Code : UGWD1911

M.Code : 79536

Date of Examination : 17-05-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Explain briefly :

   a) High frequency

   b) Mid Range

   c) Ear Training

   d) XLR Connector

   e) Web formats

   f) Dynamic microphone

   g) Graphics

   h) Loops

   i) 5.1 audio format

   j) Streaming.

SECTION-B

2. Describe the process of creating a soundtrack for a film.

3. Describe the role of effects in audio production.

4. Discuss the role of sound in film.

5. Write a note on the different audio equipments used in audio production.

6. Explain frequency, amplitude, wavelength, audio sync and time code.

7. Discuss the audio compressions and formats.

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Total No. of Questions: 07

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B.Sc. (Graphics and Web Designing) (Sem.–4)
PROGRAMMING IN PYTHON
Subject Code : UGCA-1914
M.Code : 79530
Date of Examination : 21-05-2024

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Answer briefly:

   a. What arc control structures in python?

   b. What is slicing in python?

   c. What is the difference between python arrays and lists?

   d. What are global, protected, and private attributes in python?

   e. What are common built-in datatypes in python?

   f. What is an interpreted language?

   g. What is dynamically typed language?

   h. Explain the split() and join() functions in python.

   i. Name two functions to delete a tile in python.

   j. What is the difference between mutable and immutable datatype?

SECTION-B

2. What is Python? What are the benefits of using Python?

3. a. What are python namespaces?

   b. What are literals in python? Explain various of its types.

4. a. What does a |::-11 do? Explain using an example.

   b. Discuss the various operations on tiles in python.

5. What are lists and tuples? What is the key difference between the two?

6. a. What are user defined functions in python?

   b. Write a pseudo code in python to check if the entered number by the user is prime or not.

7. What are modules in Python? Discuss their advantages.

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B.Sc. (Graphics & Web Designing) (Sem.–5)

MULTIMEDIA 2D & 3D DESIGNING

Subject Code : UGWD1913

M.Code : 90377

Date of Examination : 14-06-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

   a. Explain key frame in brief.

   b. What do you mean by bitmapped images?

   c. Define characterization.

   d. Explain sound tiles.

   e. What do you mean by gestures?

   f. Define character driven scenarios.

   g. Define key poses.

   h. Define facial expressions.

   i. What do you mean by spacing?

   j. Define dialects.

SECTION-B

2. Explain drawing and painting software tools in detail.

3. Explain Shape tween and Motion tween in detail.

4. Explain scene layout procedures and proper scene set up in detail with examples.

5. What do you mean by character animation, explain in detail?

6. Explain the mouth movements and facial expressions in detail.

7. Explain importance of timing and spacing in animation.

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Bachelor of Science (Graphics & Web Designing) (Sem.–5)
PROGRAMMING IN PHP
Subject Code : UGCA1929
M.Code : 90376
Date of Examination : 12-06-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.**

SECTION-A

1. Write briefly :

   a) Provide an example of a basic PHP script that prints "Hello, World!" to the screen.

   b) Explain the difference between local and global variables in PHP.

   c) What is an armature in the context of character animation?

   d) What is lip syncing, and why is it important in animation production?

   e) What are forms in PHP?

   f) Describe the concept of a superglobal array in PHP.

   g) List the basic operations involved in working with directories in PHP.

   h) What is the purpose of the DELETE statement in relation to MySQL database?

   i) Name two popular RDBMS.

   j) How are the comments written in PHP?

SECTION-B

2. a) What are the essential components of basic PHP development.

   b) Write a note on the different types of operators in PHP.

3. Write the steps involved in creating a walk cycle animation from designing the armature to executing the animation.

4. Briefly describe a method for creating basic lip-syncing animation based on an audio track.

5. In PHP, how do you create a basic HTML form to collect user input? Explain with an example.

6. Describe the PHP function for the following :

   a) Opening and closing a file.

   b) Reading and writing a file.

7. a) Write and explain the steps used to establish a connection between PHP and a MySQL database.

   b) Describe the process of deleting a record from a MySQL table with PHP.
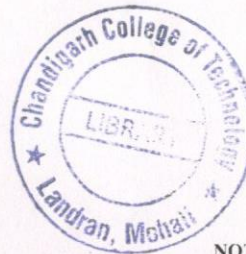
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B.Sc (GWD) (Sem.–6)
INTRODUCTION TO GAMING
Subject Code : UGWD1918
M.Code : 92000
Date of Examination : 30-04-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

   a) How the Games on different platforms differ?

   b) Give some ways that studios make "levels".

   c) What are the concepts of a Game Design?

   d) What is the History of Gaming?

   e) Mention some popular Gaming titles of today.

   f) Which field is best for Game development?

   g) Why G++ is mostly used in game development?

   h) What is flow in level designing?

   i) Why are Games fun to play?

   j) What is the Best Programming Language for Beginners?

SECTION-B

2. Illustrate the Case Study of any popular Game showcasing all the concepts of game design and elements of a game.

3. Explain the various approaches of level desigining of Game giving some real life examples of level design.

4. Explain all geners of Gaming in detail and different platforms where they exist and how they differ.

5. Give the overview on "Programming For Games".

6. Give Detail introduction to different theories of "fun and flow" in games.

7. Explain all the different roles of game development in detail.

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Total No. of Pages : 02

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B.Sc. (Graphics & Web Designing) (Sem.–6)

DIGITAL MARKETING

Subject Code : UGCA1947

M.Code : 91999

Date of Examination : 29-04-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
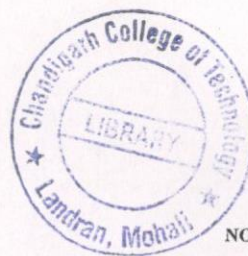2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

   a) Compare traditional and digital marketing.

   b) What are the different types of Social Media Marketing?

   c) What are transactional emails?

   d) What is referral marketing?

   e) What is the importance of landing page?

   f) Outline various tools for conducting keyword analysis.

   g) What is onsite optimization?

   h) What are tools which can be used for lead generation in digital marketing?

   i) What is CTR?

   j) Differentiate between onsite and offsite analytics.

SECTION-B

2. Why should you have Facebook in your social media plan? Explain the unique features of it.

3. Explain the benefits and challenges involved in SEO. Explain the working of search engines in detail.

4. Define content marketing. Discuss various tools of content marketing.

5. a) Discuss various strategies, which can be used by a marketer, to increase online presence.

   b) Discuss tools for managing and writing website content.

6. Discuss various types of web analytics. How does a company decide what to measure? Give examples.

7. What are various tools available for online advertising? Discuss.

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Total No. of Questions : 07

Bachelor of Science (Graphics & Web Designing) (Sem.–6)
MOTION GRAPHICS & COMPOSITION
Subject Code : UGWD1917
M.Code : 91998
Date of Examination : 25-04-2024

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

   a) Pixel-aspect Ratio

   b) Trimming

   c) Solid Layer

   d) Key Frames

   e) Bezier

   f) Equalizing

   g) Sample rate

   h) Loops

   i) Echo Reverb

   j) Compression

SECTION-B

2. Describe the concept of in and out points.

3. How would you utilize the 3D layer & co-ordinate system?

4. Write notes on light layer, null object & adjustment layer.

5. Discuss the animation process using expressions.

6. Discuss the color management, color profiles & broadcast safe colors.

7. Explain the rendering process.