

00 JUN 2023

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (Graphics & Web Designing) (Sem.-3)
IMAGE EDITING & PHOTOGRAPHY

Subject Code : UGWD-1907
M.Code : 78477

Date of Examination : 16-05-2023

Max. Marks : 60

Time : 3 Hrs.

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. Write briefly :

- Give camera control elements and function of each.
- How the camera configuration menu is opened?
- How a 256-gray level intensity image is converted into binary image?
- What are lighting effects on images in image acquisition?
- What is natural and artificial illumination models in video and photography?
- What are post-image acquisition processing tools? Discuss any two popular tools.
- What are image file formats and what is the purpose of different file formats?
- What do you mean by image resolution and contrast of an image?
- Where are color channels in color images?
- What are web portal image formats? How these are different than printable images?

SECTION-B

- What are digital camera modes? Why and how these modes are selected in photography operations?
- How analogue energy is converted for image transformation in a digital camera? Also discuss the concept of 'image sampling' and 'quantization' process in digital imaging.
- What are illumination models in photography? Discuss in detail 'ambient illumination', 'diffusion reflection' and 'specular reflection' illumination models.
- List various image editing tools. What is the purpose of image editing? Give various image editing techniques used in Adobe Photoshop.
- What are different canvas sizes for imaging? Discuss portrait image size and its types.
- What are various camera setting hardware equipments for outdoor video and photography?

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B.Sc. GWD

00 JUN 2023

Roll No.

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 : 17-05-2023

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. Structure
 - b. Texture
 - c. Perspective
 - d. 2 Dimension
 - e. Drama
 - f. Morphology
 - g. Pan
 - h. OSS
 - i. Visual Weight
 - j. Unity.

SECTION-B

2. Discuss the principles of object drawing.
3. Discuss the role of light and changing mood.
4. Discuss the theory of one point perspective.
5. What ways would you represent insects birds and animals with attention to structure and morphology?
6. Discuss from weight and balance with respect to the human figure.
7. What is a story board discuss its usage?

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00 JUN 2023

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (Graphics & Web Designing) (Sem.-3)
ELEMENTS OF DESIGN

Subject Code : UGWD-1905
M.Code : 78472

Date of Examination : 18-05-2023

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) Difference between transformation and alteration.
 - b) Use of Typography in design.
 - c) List 4 tertiary colors.
 - d) What is the purpose of contrast?
 - e) What do we mean by rhythm?
 - f) What do you mean by secondary colors?
 - g) Elements of perception.
 - h) What is the difference between Harmony and rhythm?
 - i) Character visual elements.
 - j) How do you express balance in a composition?

1 | M-78472

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SECTION-B

2. Write a short note on the following:
 - a) Black and White Composition
 - b) Positive and Negative Composition.
3. What is balance? What are the types of balance in design composition?
4. What are the visual elements of design? Illustrate the uses of visual elements.
5. What do we understand by the word design? What are different applications of design. Explain in detail the concept of balance in Design composition?
6. What do we understand by the term "Design principles"? Explain in detail different principles of design.
7. a) Explain the concept of Emphasis and how can it be achieved?
b) What are Balance, Harmony and Rhythm?

2 | M-78472

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00 JUN 2023

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

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

COMPUTER GRAPHICS

Subject Code : UGCA1934

M.Code : 79532

Date of Examination : 19-05-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

I. Write briefly :

- What do you mean by virtual reality? List its various applications.
- Differentiate between raster-scan displays and random-scan displays.
- What is difference between cabinet and cavalier projections?
- What is meant by perspective foreshortening?
- What do you mean by differential scaling?
- Prove that uniform scaling and rotation form a commutative pair of operations.
- What are homogenous coordinates? What is their use?
- What is horizontal and vertical retrace?
- What is aspect ratio? Can aspect ratio be equal to 1?
- In context of raster scan systems, what do you mean by interlacing?

SECTION-B

- Describe in detail various applications of computer graphics.
 - Describe the construction and working of graphical input devices namely joysticks and track ball.
- What do you mean by window and viewport? Derive general window to viewport transformation.
 - Magnify the triangle with vertices $A(0,0)$, $B(1,1)$ and $C(5,2)$ to twice its size while keeping $C(5,2)$ fixed.
- Describe in detail, the construction and working of shadow mask CRT and beam penetration CRT.
- Explain in detail, Bresenham's algorithm for scan converting a line. Using Bresenham's line drawing algorithm, compute the coordinates of points on line between $(3, 5)$ and $(10, 9)$.
- Describe Sutherland-Hodgeman polygon clipping algorithm. Why line clipping is not suitable to clip polygons on edge-to-edge basis?
- Find the matrix for mirror reflection with respect to the plane passing through the origin and having a normal vector whose direction is $N = I + J + K$.

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00 JUN 2023

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (G&WD) (Sem.-3)
DATABASE MANAGEMENT SYSTEMS

Subject Code : UGCA-1922
M.Code : 78473

Date of Examination : 20-05-2023

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 purpose of a database management system (DBMS), and how does it differ from a traditional file system?
- b. How does Data Manipulation Language (DML) differ from DDL?
- c. What are the primary components of a DBMS architecture and how do they work together to manage data?
- d. How does normalization play a role in database design?
- e. What are the major types of database models and what are the advantages and disadvantages of each?
- f. List various key components of a database schema.
- g. How can data replication be used to ensure data availability?
- h. What are some common problems that can arise when designing a database schema?
- i. What is the need of database recovery modules?
- j. How can normalization be used to improve database performance?

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SECTION-B

2. What are the different normal forms used in database design and how do they differ in terms of the level of normalization and data redundancy? Explain the key features of first normal form (1NF), second normal form (2NF), third normal form (3NF), and beyond.
3. What is database security and how can it be enhanced through the use of access control mechanisms, encryption and other security measures? Explain some common security threats, such as SQL injection, buffer overflow attacks and denial of service attacks.
4. What is Database Control Language (DCL) and how is it used to manage access control and security in a relational database system? Explain some common DCL commands, such as GRANT and REVOKE.
5. What are some common types of relationships that can be represented in an entity relationship model? Discuss in detail. How are these relationships represented in the model and what are some examples of each type of relationship in a real-world database?
6. What is relational algebra and how is it used to manipulate data in a relational database system? Explain some common operations of relational algebra, such as selection, projection, join, and aggregation.
7. How can concurrency control be used to manage access to a database by multiple users and prevent data inconsistencies and conflicts? Explain some common concurrency control techniques.

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2 | M-78473

(53)-7003

00 JUN 2023

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc (Graphics & Web Designing) (Sem.-6)
MOTION GRAPHICS & COMPOSITION

Subject Code : UGWD1917

M.Code : 91998

Date of Examination : 20-05-2023

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) Frame rate
- b) Splitting
- c) Layer stack
- d) Motion Blur
- e) Auto Bezier
- f) Ear Training
- g) Pitch
- h) CODEC
- i) Proxies
- j) Background music.

SECTION-B

2. Discuss the various broadcasting fundamentals.
3. How does nesting helps in the compositing process?
4. Discuss the animation basics in after effects.
5. Write notes on interpolation, time remapping & frame blending.
6. Discuss the different audio effects.
7. Explain the rendering process.

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Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (Graphics & Web Designing) (Sem.-4)
PROGRAMMING IN PYTHON

Subject Code : UGCA1914

M.Code : 79530

Date of Examination : 24-05-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. Write briefly:

- How is python different from other languages?
- Write four limitations of python.
- When do we use elif?
- State the differences between Sets and Lists.
- Compare and contrast Python and C++.
- Name four types of built-in functions in python.
- Discuss the lifetime of variables.
- What is the need for python modules?
- What are the functionalities of tell() and seek()?
- How does garbage collection work in python?

SECTION-B

- Write five applications of Python and elaborate them.
- What is a Dictionary and what functions can we in on it?
 - How do we create and import a module in python?
- Define the following terms:
Keywords, Identifiers, Indentation, Variables, and Documentation.
- What are the various loops available in Python? Explain using code for each type.
- Differentiate between pass-by-value and pass-by-reference. Explain using code examples.
 - Discuss five functions of Strings in python.
- Discuss the built-in exceptions while making exception handling in python.
 - While doing file management in python, discuss various operations on the file.

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Roll No.

Total No. of Questions : 07

Total No. of Pages : 02

B.Sc. (IT / Graphics & Web Designing)/BCA (Sem.-1)
FUNDAMENTALS OF COMPUTER AND IT

Subject Code : UGCA1902

M.Code : 76962

Date of Examination : 24-05-2023

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 function of the Arithmetic Logic Unit (ALU) in a computer system?
- b. What is the difference between a binary and a decimal number system?
- c. How does IoT connect devices and data in new ways?
- d. What is UPI (Unified Payments Interface) and how does it facilitate electronic fund transfer between bank accounts?
- e. How can you sort the data in Microsoft Excel?
- f. What are the different types of computer languages?
- g. What are some examples of utility programs that are commonly used in computer systems?
- h. How do you protect cells, sheets, and workbooks in Microsoft Excel?
- i. What is the difference between a page break and a section break in Microsoft Word?
- j. What is the purpose of speaker notes in Microsoft PowerPoint?

SECTION-B

2. What is crypto-currency and how does it differ from other payment systems? How does the use of Bit-Coins as a payment system compare to traditional currencies and what are the risks and benefits involved?
3. What is the purpose of handouts and notes pages in Microsoft PowerPoint and how can you add these features to a slide show? How can you use hyperlinks to link to external sources or other slides within a Microsoft PowerPoint presentation? Illustrate.
4. How do operating systems manage computer resources such as memory, CPU, and storage? What is disk management software and how is it used to manage computer storage?
5. How are arithmetic operations performed in different number systems? Give examples in context to various numbers systems. How are hexadecimal and octal number systems used in computer systems?
6. What are some examples of input devices that can be used with a computer system? Explain working of these devices.
7. What are macros and how are they used to automate tasks in Microsoft Excel? How can you use Excel to create financial statements, such as a balance sheet or income statement? Give suitable examples.

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Roll No.

Total No. of Questions : 07 Total No. of Pages : 02

B.Sc(Graphics & Web Designing) (Sem.-6)
DIGITAL MARKETING

Subject Code : UGCA1947
M.Code : 91999

Date of Examination : 25-05-23

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. Write briefly :

- SEO
- Outbound Marketing
- Different types of DM
- What is PRC?
- Qn-Page Optimisation
- PPC Advertising
- Bumper Ads
- How to improve conversion rates?
- Google AdWords Remarketing
- Google Ads

SECTION-B

- Define Search Engine Optimization. What is the need of an SEO friendly website? Write the importance of Internet and Search Engines.
- Difference between SEO & SEM. How is SEM changing the era of marketing?
- Content is the King in Digital Marketing. But your content should have the right kind of keywords. Why are keywords so important? Which are the different types of classifying keywords?
- What is the impact of online marketing? Explain Affiliate Marketing, Viral Marketing, Influencer Marketing & Referral Marketing.
- What are the types of DM? Differentiate between Inbound and Outbound marketing.
- Why is Online Marketing trending these days? What do you understand by SMM? What KPIs do you use in social media reporting?

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Roll No. []

Total No. of Questions : 07

Total No. of Pages : 02

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

VIDEO EDITING

Subject Code :-UGWD1911

M.Code : 79536

Date of Examination : 26-05-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

I. Write briefly :

- Frequency
- Low frequency
- Dialogue
- Equalizing
- XLR Cable
- Sample rate
- Patterns
- Audio Monitors
- High pass
- Digital Audio.

SECTION-B

- Discuss the various audio controls of a professional audio mixer.
- Write note on Ear Training & Critical Listening.
- What is voice modulation? Why a voice over artist needs to master this art?
- Describe the mixing process.
- Define chorus effect, clipping, band pass & reverb.
- What do you mean by mastering? Describe the process & setup of mastering.

U O JUN 2023

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

Bachelor of Science (Graphics & Web Designing) (Sem.-2)
OBJECT ORIENTED PROGRAMMING USING C++

Subject Code : UGCA-1909

M.Code : 77730

Date of Examination: 30-05-2023

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 are copy constructors?
- b. What are default constructors?
- c. What are the advantages of a class?
- d. How is (ios::app) mode different from (ios::ate mode)?
- e. What is a friend functions?
- f. How are structures is different from a class?
- g. What is meant by dynamic initialization of a variable?
- h. What is polymorphism?
- i. What is direct memory access?
- j. What is a static variable?

SECTION-B

2. Write a program in C++ to overload the +, -, operator to find the addition and subtraction of Complex numbers
3. What are the various File Opening Modes? Explain with examples.
4. Explain how base class member functions can be invoked in a derived class if the derived class also has a member function with the same name.
5. Explain what is an overloaded operator & how does a compiler proceed to execute an overloaded operator?
6. Write a program to find the roots of a quadratic equation.
7. What are the various input statements of C++. Explain

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00 JUN 2023

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (G&WD) (Sem-2)
ENVIRONMENTAL STUDIES
Subject Code : EVS-102-18
M.Code : 77734

Date of Examination : 02-06-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

I. Write briefly :

- Green House effect
- Biosphere reserve
- Land as a resource
- Industrial uses of water
- Natural Resources
- Disaster Management
- Biodiversity
- Aquatic Ecosystem
- Reasons of over-exploitation of forests
- Landslides.

SECTION-B

- Describe the different ecological pyramids and their implications.
- a) Describe the role of forests in conservation of biodiversity.
b) Discuss in detail the different threats to forests.
- Suggest different measures to replenish the ground water table.
- Describe the different issues being faced by the world regarding climate change.
- Discuss the different means to conserve biodiversity.
- a) Distinguish between renewable and non-renewable sources of energy.
b) Brief about the Red Data Book.

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00 JUN 2023

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (G&WD) (Sem-2)
ENVIRONMENTAL STUDIES
Subject Code : EVS-102-18
M.Code : 77734
Date of Examination : 02-06-2023

Time : 3 Hrs. Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

I. Write briefly :

- Green House effect
- Biosphere reserve
- Land as a resource
- Industrial uses of water
- Natural Resources
- Disaster Management
- Biodiversity
- Aquatic Ecosystem
- Reasons of over-exploitation of forests
- Landslides.

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SECTION-B

- Describe the different ecological pyramids and their implications.
- Describe the role of forests in conservation of biodiversity.
 - Discuss in detail the different threats to forests.
- Suggest different measures to replenish the ground water table.
- Describe the different issues being faced by the world regarding climate change.
- Discuss the different means to conserve biodiversity.
- Distinguish between renewable and non-renewable sources of energy.
 - Brief about the Red Data Book.

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2 | 10-77734

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Roll No.

Total No. of Questions : 07

Total No. of Pages : 02

B.Sc. (Graphics & Web Designing) (Sem--5)
LIGHTING AND RENDERING

Subject Code : UGWD1914

M.Code : 90378

Date of Examination : 05-06-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. Write briefly :

- What is the real problem of real-world multi-dimensional objects representation in digital systems?
- What are lighting techniques in object high lighting?
- What is the difference between the camera-model of real-world model?
- How a shader tool is used to create virtual real effects?
- What do you mean by zero-depth camera projection?
- How and why camera-projection depth is increased.
- What is lighting and rendering?
- Which tool is used to create lighting effects in 3D Maya for object rendering?
- Explain in direct lighting and indirect-lighting and how it is different than ambient lighting?
- What do you mean by scene-sampling and its quantization for object rendering?

SECTION-B

- Give detail introduction of Autodesk Maya software and its applications. Give names of important properties of 3D Maya shader in rendering.
- What are illumination models? Name and discuss important illumination models and their characteristics.
- What is the role of coordinate systems in rendering, projection and coloring different planes for visualization virtual-real-models?
- Discuss important six types of lightings available in Autodesk Maya and their light-effects with labelled diagram of each.
- What is the purpose and significance of 3-point lighting setup? How it is used in a CG projection rendering. Also give its advantages.
- What are wireframe models? How fast ambient occlusion methods are used in wireframe object model rendering?

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09 JUN 2023

U O JUN 2023

Roll No.

Total No. of Questions : 07

B.Sc. (Graphics and Web Designing) (Sem-2)
FUNDAMENTALS OF STATISTICS

Subject Code : UGCA-1907
M. Code : 77728

Date of Examination : 05-06-2023

Time : 3 Hrs.

Max. Marks : 60

SECTION-B

- Write the definition of Statistics in singular and plural sense? Write also its importance, scope and limitations?
- The value of median and mode of 230 workers is given to be 33.5 and 34 respectively, find the missing frequencies :

Wages (Rs)	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Number of Workers	4	16	-	-	6	6	4

- Calculate the variation for the following data and discuss the relative consistency of the two bricks :

Brick A :	706	675	725	625	650	700	650	700	600	650
Brick B :	550	600	575	550	650	600	550	525	625	600

- Explain the various methods for collecting primary data and secondary data
- What are the different ways to classify the numerical data?
- List down the advantages and disadvantages of the diagrammatic presentation of the data.

Total No. of Pages : 02

Roll No.

Total No. of Questions : 07

B.Sc. (Graphics and Web Designing) (Sem-2)
FUNDAMENTALS OF STATISTICS

Subject Code : UGCA-1907
M. Code : 77728

Date of Examination : 05-06-2023

Time : 3 Hrs.

Max. Marks : 60

SECTION-A

- Write the definition of Statistics in singular and plural sense? Write also its importance, scope and limitations?
- The value of median and mode of 230 workers is given to be 33.5 and 34 respectively, find the missing frequencies :

Wages (Rs)	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Number of Workers	4	16	-	-	6	6	4

- Calculate the variation for the following data and discuss the relative consistency of the two bricks :

Brick A :	706	675	725	625	650	700	650	700	600	650
Brick B :	550	600	575	550	650	600	550	525	625	600

- Explain the various methods for collecting primary data and secondary data
- What are the different ways to classify the numerical data?
- List down the advantages and disadvantages of the diagrammatic presentation of the data.

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

I. Write briefly :

- Differentiate between primary data and secondary data.
- How will you check the authenticity of secondary data?
- "Statistics can prove anything". Discuss this statement.
- Give formula to calculate mean, median and mode in individual discrete and continuous series.
- Which method of Central tendency out of mean median and mode do you considered to be the best and why?
- What are the different measures of Dispersion?
- Explain coefficient of Variation.
- How do Histogram and Bar Graphs contribute in analysis of the data?
- What do you mean by classification of the data?
- Types of graphs.

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Roll No.

Total No. of Questions : 07

Total No. of Pages : 02

B.Sc. (Graphics & Web Designing) (Sem.-5)
PROGRAMMING IN PHP

Subject Code : UGCA-1929

M.Code : 90376

Date of Examination : 07-06-23

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 WYSIWYG?
- b) Which server is used to compile PHP code?
- c) Write a few applications of PHP.
- d) Write a history of PHP.
- e) Differentiate between While and Do-While statement.
- f) Explain the GET method in detail.
- g) Write a procedure for uploading a data file.
- h) What is Google Caffeine?
- i) What is the use of the final keyword?
- j) How to write HTML code in PHP?

SECTION-B

2. Write a PHP script that takes the username, password and e-mail values from the user and checks whether the user has filled the textboxes or not. Also, check the e-mail field whether it is an incorrect format or not.
3. Write a program to update the value of the database on user request.
4. Explain, various control statements in PHP, each with an example.
5. How sound files are imported in PHP. Write a program to import a sound file. How Lip-synching to dialogue is performed?
6. What are the various types of joins available in SQL?
7. How to create a connection between PHP and My SQL? Explain its step-by-step procedure.

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Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

CONCEPTS OF WEBSITE DESIGNING AND DEVELOPMENT

B.Sc. (GWD) (Sem-2)

Subject Code : UGWD-1903

M.Code : 77729

Date of Examination : 07-06-2023

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 any two protocols for data transfer over internet.
- b) Name any two types of internet servers. Also, briefly explain usability of these servers.
- c) What is meant by web hosting? Name any two companies which provides hosting services.
- d) Draw the diagram showing communication using client-server architecture.
- e) What is meant by OpenSource Software? Briefly explain.
- f) How server-side scripting languages are different than client-side scripting languages?
- g) Explain, briefly any two properties of a DBMS.
- h) What do you understand by articles in Content Management System (CMS)? Answer briefly.
- i) Write two differences between White Hat and Black Hat SEO techniques.
- j) Write a short note on permalinks.

SECTION-B

2. Explain in details, principles of web site designing. Also, mention key points to remember while preparing site map.
3. Mention key issues to be handled in web designing. Name standard techniques to address these issues.
4. What is meant by user centric design? How this designing approach is different from development centric design approach?
5. What is the difference between static and dynamic website? With the help of a diagram explain how database is managed using PHP and MySQL?
6. What is Search Engine Optimization? Explain the different techniques of SEO to improve ranking of a website.
7. What is a blog? How blogs help in improving SEO? Explain important characteristics of any blog engines.

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00 JUN 2023

Roll No.

Total No. of Questions : 07

Total No. of Pages : 02

**B.Sc. (Graphics and Web Designing) (Sem-1)
INTRODUCTION TO SCRIPTING LANGUAGES**

Subject Code : UGWD-1901

M.Code : 77200

Time : 3 Hrs. Date of Examination : 20-06-2023

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

I. Write briefly :

- What is the difference between www and internet?
- Write HTML syntax to create a link.
- Differentiate between frameset and non-frame documents.
- What are targeted links?
- Write a short note on style sheets.
- Differentiate between 'serif' and 'sans-serif' font families.
- Discuss any two attributes available in the 'img' tag.
- What is the difference between 'class' and 'id' selectors available in CSS?
- Write the CSS properties to control the font size and style of the text.
- What purpose does 'rowspan' and 'colspan' serve in HTML tables?

SECTION-B

- Explain in detail, how inline, block-level and empty elements are used in web page design with the help of an example.
- Describe the procedure involved in processing HTML forms, highlighting the need of form validation for enabling user input. Also discuss various forms control elements.
- Describe the significance of navigation and page layout in web design. Discuss various navigational aids and layouts available in HTML.
- Explain various ways to incorporate images into a web page. Also discuss various image formats along with their advantages and disadvantages.
- Describe the role that site design plays in developing a successful and interesting web page. Discuss the important concepts in designing websites, involving font, color, arrangement and browsing.
- What are style rules in HTML? Explain different ways in which style rules can be applied to HTML elements with the help of an example.

00 JUN 2023

Roll No.

Total No. of Questions : 07

Total No. of Pages : 02

B.Sc. (G & W.D / I.T) / BCA (Sem-3)
DATA STRUCTURES

Subject Code : UGCA1915
M.Code : 78181

Date of Examination : 08-06-2023

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. Define algorithm. Give an example.
- b. Differentiate between linear and non-linear data structure.
- c. How is memory allocated to 2-D Array?
- d. Explain the concept of de-queue.
- e. Explain the various operations performed on stack.
- f. What is a binary search tree? Give an example.
- g. List the different types of graphs.
- h. What is collision in hashing?
- i. What is the time complexity of binary search algorithm? How it performs better than linear search?
- j. List the various applications of stack.

SECTION-B

2. Write the algorithms for bubble sort. Explain it with the help of an example.
3. What is hash function? Explain different types of hash functions with the help of an example of each.
4. Write algorithm for depth first search and explain it with the help of an example.
5. Define data structure. Explain the different types of data structures.
6. What is a queue? Explain different operations that can be performed on a queue with the help of an-example of each.
7. Write short note on :
 - a. Algorithm complexity.
 - b. Circular linked list.

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