QUESTION PAPERS FOR END TERM THEORY EXAMINATIONS
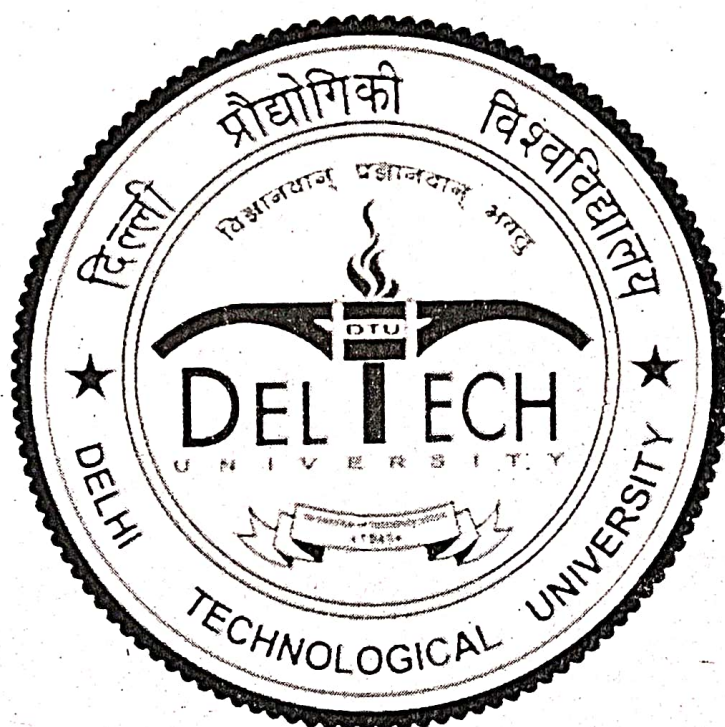## MAY-2023

B.Tech, B.Tech (Evening), B.Design, 2nd, 4th, 6th & 8th SEMESTER

2nd SEMESTER
B.DES.

END TERM EXAMINATION   MAY-2023

DD102   DESIGN METHODOLOGY & METHODS
Time:03:00Hours   Max. Marks: 40

Note: All questions are compulsory
    Assume suitable missing data, if any.

Material Note** 3 x A3 and A4 for rough work as required by students

Section A

Q1. Proper functioning of any user, product, or services requires correct conversion of data into analysis. This requires in-depth research method studies and Task analysis of the process of the desired product. Depending upon how the user processes his/her action, operations, response, behavior and experience. Concluded with a in-depth study of observation and listing down the pain points. For any one situation below articulate and map the user behavior, Task analysis in the given situation. Develop your answer with the help of text, tables and sketches.

A) A mother of an infant trying to unlock the door while the baby is in her arms and keys are in her hand bag.

OR

B) An air – hostess serving tea in flight.

OR

C) A 55 year old lady climbing the upper birth of a train

NOTE:

1. Discuss the task analysis process in 2 A3 Size with observation and listing the pain points.

2. Task analysis and user study should be done within 12 comic windows.

[30 Marks][CO03]

Section B

Q4. From the above problem statement that the student have selected. Discuss what are your understandings of the situation given how you like would to solve the problem. In ONE A3 sheet.   [10 Marks][CO04]

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END TERM EXAMINATION   May-2023

DD104   of Design

Time: 3 Hours   Max. Marks: 40

Note: Use diagrams and illustrations to explain

Q1. Discuss the Modern Indian era by discussing one painter, graphic printmaker, and sculptor along with their famous work.   [10]

Q2. How do different types of calligraphy, such as traditional or modern, differ from one another in terms of their use in contemporary design and advertising?   [10]

OR

What role did the development of writing play in the advancement of manuscript production during the medieval period, and what were some of the technological innovations that made more elaborate manuscripts possible?   [10]

Q3. Illustrate through drawings and visual representations, the distinctive architectural characteristics of the Indus Valley civilization and Islamic architecture.   [10]

Q4. Write a brief description of any two artists from the list, along with visual representations of their famous works.   [10]

(i)   Edward Manet

(ii)   Vincent Van Gogh

(iii)   Picasso

(iv)   Salvador Dali

2nd SEMESTER

B.Des

END TERM EXAMINATION   *May-2023*

DD106   Communication Studios and Semiotics

Time: 3 Hours   Max. Marks: 40

> Note: Give 2 A3 sheets and answers sheets to each student

Q1. Give a very short definition/ example (not more than 2 lines) for any
five-   [1x5]
   a) Connotation -definition
   b) Index- definition
   c) Semiotics- definition
   d) Non-Verbal Communication- example
   e) Syntax- example
   f) Pragmatics- example

Q2.

   a) Explain what is a Sign and how it works in your own words (not more
      than 150 words).   [5]
   b) Create a Sign for a Sign such that it's working as explained above is
      implied in the construction. (on A3 sheet)   [10]

Q3. Illustrate how to prepare a recipe of your choice through visuals in a
minimum of five steps. Develop necessary icons/ symbols/ indices for
details. Draw the final thing neatly as a self-explanatory illustration/
diagram. Show the process of development, use minimum text.
   a) Process
   b) Final Illustration   [5]
                                                            [15]

B.Des
2ⁿᵈ Semester

End Term Examination May-23

DD108 · Material and Processes for Designer
Time: 3 Hours Max. Marks: 40

> Note: All Questions are compulsory.

Q1. What material properties would you look for while designing a 'study table', design and sketch out a study table and mention the choice of materials giving reasons why you selected those materials for your application. Draw and label the various components/parts of the study table that you designed. [10 marks]

Q2. Explain <u>any two</u> of the following casting processes with the help of sketches:

    i. Sand Casting
    ii. Plaster Mould Casting
    iii. Investment Casting (Lost wax casting)
    iv. Shell Moulding
    v. Die Casting [10 marks]

Q3. Explain with the help of examples <u>any two</u> types of materials from the below mentioned list:

    i. PET (polyethylene terephthalate)
    ii. Stainless Steel
    iii. High Speed Steel
    iv. PP (Polypropylene)
    v. Aluminium
    vi. Titanium [10 marks]

552   468

Q4. Explain the difference between:
  i.   Ferrous and Non-ferrous metals?
  ii. Brass and Bronze?   [4 marks]

Q5. Explain in detail with the help of sketches <u>any one</u> of the following manufacturing processes :

  i. Rotational Moulding
  ii. Blow Moulding

                                                            [6 marks]

                              OR

Q6. Explain in detail the difference between Turning process and Milling process.

                                                            [6 marks]

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B.Des SEMESTER II

END TERM EXAMINATION, May-2023

DD110, Computer Aided 3D Visualisation

Time: 03:00 Hours   Max. Marks: 40

Q 1. Make one 3D object, which has two use cases. In addition to this cover, the following points mentioned below:

a) Make a rough sketch of your concept.

b) Write a concept note of your model in 200 to 250 words.

c) Create a final 3D Model using any software, of your choice.

(Use your imagination and skill.)

(Final submission is required in the form of JPEG Image, students have to submit 2 JPEG Images, (720X720 pixel) + 1 Screen short, compile all together in a form of PDF along with source files).

[5+10+25 Marks] [CO-1]

470 554

4th SEMESTER
B Des

END TERM EXAMINATION   *May-2023*

DD202 Cognitive Ergonomics

Time: 180 Minutes   Max. Marks: 40

Note: All questions are compulsory.

The use of artificial intelligence (AI) in cognitive processes raises various ethical issues, such as:

1. Bias: AI systems can perpetuate or even amplify bias, discrimination, and prejudice if they are trained on biased data or designed in a way that reinforces existing biases. For example, facial recognition software may be less accurate at identifying people with darker skin tones, leading to discriminatory outcomes.

2. Privacy: AI systems can collect and analyze vast amounts of personal data, raising concerns about privacy and surveillance. This can include data such as health records, financial information, and social media activity.

3. Accountability: AI systems can make decisions with significant impacts on individuals or society as a whole, yet it can be difficult to determine who is responsible for those decisions. This can raise questions about accountability, transparency, and liability.

4. Human dignity: The use of AI in cognitive processes may raise concerns about the dignity of human beings, particularly in situations where AI systems are making decisions that affect human lives or well-being.

5. Autonomy: The use of AI in cognitive processes may limit human autonomy and decision-making. This can be particularly concerning in situations where AI systems are making decisions that are irreversible or have significant long-term consequences.

To address these ethical issues, it is important to develop AI systems that are designed in a way that is transparent, interpretable, and aligned with ethical principles such as fairness, accountability, and respect for human dignity. This may involve incorporating ethical considerations into the design and development process of AI systems, as well as developing guidelines and regulations that promote ethical AI. Additionally, ongoing research and monitoring of the impacts of AI on society will be critical to ensure that these systems are used in a way that maximizes their benefits while minimizing potential harms.

We have discussed various cognitive processes and Brain Functions throughout the semester. You are to design your own Sentient Ethical AI Framework. Compare and evaluate the framework that you have taken as your research topic.

Please attempt the following questions keeping in mind the above conversation with AI – Chat GPT.

1. What are Core Emotions and Feelings that are there in the AI that you are designing? List their Variables involved and their dependency on Constants.   [5 + 5 Marks]

2. How are the above mentioned Core Emotions and Feelings related to threads of related emotions? Describe these interdependencies.   [5 + 5 Marks]

3. Describe and Illustrate the AI framework.   [10 Marks]

4. Explain the Functioning of your AI Framework with the example of Cognitive and Emotional Tasks. You can describe the same with the help of a Flow Chart or Equation.
                                    [10 Marks]

P.S: Please assume any data that you require. Try thinking OUT of the BOX for interesting answers.

> **Note:** All Questions are compulsory.
> Assume suitable missing data, if any.

Q.1

Read the plot given below and create a storyboard:

Two sparrows are chirping in the balcony of an apartment early in the morning. A boy comes out and stands near them with a stick in his hand. Imagine a dialogue between the two sparrows that might have occurred at that point of time.   **[20] [CO-1]**

Q.2

Explain the difference between the terms 'Film' & 'Video'. Give suitable examples to support your answer.

OR

What are the important features of 'editing done well'. Discuss some of the film's scene examples that present a well edited story progression.   **[10] [CO-1]**

Q.3 Attempt **any two** of the following:

What kind of emotions do the following types of images evoke in the audience? Explain with examples.

a) Low angle shot of a person
b) Close shot of a human eye
c) Wide shot of an empty road.   **[5x2=10] [CO-1]**

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Total no. of pages: 02   Roll No..........

4th Semester
BDES Program
END TERM EXAMINATION   May-2023
DD206   Colour, Context & Composition
Time: 3:00 Hours
                                                   Max Marks: 40

Note: All Questions are compulsory.
      Internet not allowed.
      Assume suitable missing data, if any...

Q.1   Attempt **any one** of the following:

a) Describe the contextual relevance of **any two** designs (such as book
   cover, packaging, website, logo etc) of your choice that you have
   encountered recently which uses a decisive color scheme. Elaborate
   with at least two cases/ examples.
   Some popular color schemes are Monochromatic, Analogous,
   Complementary, Split complementary, Triadic color scheme etc.

OR

b) In order to define the 'context' fully, we must spell out the
   Agent (User)
   Subject (Product/Service)
   Circumstances (setting/ situational factors)
   Understanding (meaning of the subject and its relationship to its
   circumstances)

   Discuss **any two** examples of such 'context' from your assignments/
   projects undertaken this semester in detail using all four elements.
                                                   [20] [CO-1]

Q.2 Create a design of your choice that uses at least two principles of design (eg. book cover/ poster/ Illustration/ postcard/ UI/ logo etc.) Principles: Balance, emphasis, contrast, alignment, Repetition, Proximity, Flow, Unity

Write a short note on the principles used in your design. (max. 200 words)

Note: A3 Sheet, Color/Black & White, Format: Manual

[20] [CO-1]

4th SEMESTER
B.DES.

END - TERM EXAMINATION   **MAY-2023**
DD222   PACKAGING DESIGN
TIME:03:00HOURS   **MAX. MARKS: 40**

Note: All questions are compulsory.
      Word limit for each answer in Section-B is MAX. 500 words.
      Assume suitable missing data, if any.

Section A

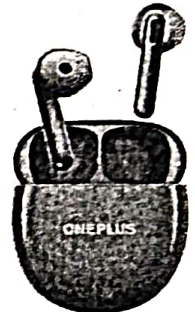**Material Note** 3 x A3 and A4 for rough work as required by students

Q1. Pick any one product from the following to design a Packaging:

a. One Plant with pot   b. Lamp with shade & Bulb
c. One plus earphone
   (Real plant)

The points you should consider during designing are as follows:
1. The Packaging should contain all:
   Branding
   Visuals
   Primary, Secondary and tertiary packaging (as required)
   Required information which will go on the front and back of the
   packaging
2. You'll submit the entire work consolidated in **THREE A3 size sheets.**
3. Packaging should be designed in a way that customer can see the
   product inside and feel the material/texture and other details of the
   product.   {30 Marks}

SECTION – B

Q2. Discuss various factors which helped you in your design process and
decision making.
Q3. Discuss why you chose the desired material for the packaging you
designed and why you chose that material.   {2*5 Marks}

-END-

Total No. of Pages: 01   Roll No................

B.Des
4th Semester

End Term Examination   May-23

DD228   Creative Tinkering

Time: 3 Hours   Max. Marks: 40

Note: All Questions are compulsory.

1. Define the role of mechatronics in creative tinkering with suitable examples and illustrations.   (Marks 10)

2. Explain various type of Cam and followers and its application in toy industry with suitable examples and illustrations. (Marks 10)

3. Define machine, mechanism and structure with illustrations. (Marks 5)

4. Explain inversion of slider crank and its application (Marks 10)

5. Design a unique hinge mechanism with the help of two links (without using third external link or component)   (Marks 5)

4ᵗʰ Semester

BDES Program

END TERM EXAMINATION   May-2023

DD232   Typography-1

Time: 3:00 Hours   Max Marks: 40

Note: All Questions are compulsory.
The medium of the answer can be in manual/ digital format.
Use of the Internet is not allowed.
Assume suitable missing data, if any.

Q.1 Attempt **any one** of the following:

a) Design a composition using one or more letters of your script. Balance the negative and positive space with size and color.

OR

b) Design a composition using graphics or photographs visually similar to letterform.   [20] [CO-1]

Q.2

a) Show **any one** of the following effect using the typeface of your choice:
Perspective
Illusion
Bonding

OR

b) Write and compose a sentence that says something about you. Use the typographic skill manipulating aspects such as big or small size, color, texture etc.   [20] [CO-1]

4ᵗʰ Semester

BDES Program

END TERM EXAMINATION

May-2023

DD234   System of Representation

Time: 3:00 Hours

Max Marks: 40

Note: All Questions are compulsory.

Assume suitable missing data, if any.

Q.1   Attempt **any one** of the following:

a) In today's time we often come across cafés where we would see people working due to different reasons like space crunch, societal interventions and many more. Imagine a cafe or restaurant of your own and design the map to represent the layout, seating arrangements, counters, etc in an intuitive and user friendly way. Explain your space design for the cafe or restaurant keeping in mind your target audience.

OR

b) Design a new game inspired by snakes and ladders, but with a unique theme or storyline.

(For example using some vehicle or transport instead of ladder which would help to move faster towards the set goal or be playful with the board design.)

Explain the process and idea behind the game.

OR

Illustrate the route you experience everyday from your place of stay to the Department of Design in Delhi Technological University using creative ways of mapping. (Example: creating a map of sounds you encounter on your route)

Explain the process of creating such a map design.

[20] [CO-1]

Q.2 What do you think is the importance of using a new visual language in your design work, compared to relying on older ways of representation? Give examples from your day to day encounter with advertisements, films, billboards etc.

For example: Dove's "Real Beauty" campaign (2004) This groundbreaking campaign featured women of different ages, shapes, and sizes talking about their own beauty insecurities and struggles with body image. The ad was a departure from the typical beauty ads that featured airbrushed and perfect-looking models, and instead aimed to celebrate and embrace the diversity and complexity of real women.

[20] [CO-1]

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4th SEMESTER
BDES Program

END TERM EXAMINATION   **May-2023**
DD236 Animation-1

Time: 3:00 Hours   **Max Marks: 40**

Note: All Questions are compulsory.
    Format of submission: Manual or Digital.
    Internet & reference materials are not allowed.
    Assume suitable missing data, if any.

Q.1 Attempt **any one** of the following:
  a) Draw in eight or more frames the side-view of your animation character "Jumping" using the animation Principle of "Squash and Stretch" in detail, keeping in mind the body proportions.

OR

  b) Draw in eight or more frames the side-view of your animation character "Throwing a ball" using the animation Principle of "Anticipation and Follow Through" in detail, keeping in mind the body proportions.   **[20 Marks] [CO-1]**

Q.2 Draw the Storyboard for the following poem. Write the Audio, Visual, Camera and Time details for each frame.

  a) Jack and Jill went up the hill
    To fetch a pail of water;
    Jack fell down and broke his crown,
    and Jill came tumbling after.

OR

  b) Baa, baa, black sheep
    Have you any wool?
    Yes sir, yes sir, three bags full.
    One for the master,
    And one for the dame,
    And one for the little boy
    Who lives down the lane.   **[20 Marks] [CO-1]**

Total no of pages- 1

Roll no..........

4th SEMESTER
BDES Program
END TERM EXAMINATION   May-2023
DD238   Branding & Identity Design- 1
Time: 3:00 Hours   Max Marks: 40

Note: Assume suitable missing data, if any.

Q.1 Attempt **any one** of the following:

a) "Don't count the people that you reach, reach the people who count"-David Ogilvy. Elaborate the statement as per your understanding giving ample examples.

OR

b) "Products are made in the factory, but brands are created in the mind"-Walter Landor. Discuss any five elements of the branding which helps to establish a brand. Give illustrative examples to support your answers.   **[20 Marks] [CO-1]**

Q.2

Is collaboration between two brands a good strategy? Discuss the advantages and disadvantages of such a strategy with keeping **any one** of the following topic in mind:

a) Millets and Youth hostel
                OR

b) Furniture designer and Orthopedic specialist

                                [20 Marks] [CO-1]

4ᵗʰ SEMESTER
B Des

END TERM EXAMINATION
May-2023

DD242 Ethnographic studies in Interaction design

Time: 180 Minutes

Max. Marks: 40

Note: Kindly read the given text carefully before answering.
All questions are compulsory.

According to census of India the definition of Literacy is –A person who can read and write a letter with understanding in any language, is considered as Literate. According to this definition, even after 66 years of independence 26 per cent of the people, live in different parts of India, cannot do justice with a letter. A person who can merely read but cannot write is not defined as literate. The children below five years are considered as illiterate. The literacy rate would be more meaningful if one were to exclude the population within the age-group 0-4 years from the total population. This definition of Literacy reflects only the quantitative aspect of demographic attribute, but the quality aspect of literacy phenomenon is still away from the reality. The literacy which increases ones knowledge and understanding against exploitation, injustice and help in decision making and getting better employment opportunities, play a crucial role in socio-economic well being. Literacy in India is a key for socio-economic progress and Indian literacy has grown to 74.04 percent in accordance with 2011 census. At the eve of Independence it was merely 12 percent. Although this was greater than six fold improvement, the level is well below the world literacy average rate level of 84 percent, and all nations, India currently has the largest illiterate in the world (UNESCO Report Jan 29, 2014). The numerical strength of the illiterate people of India is 287 million people, which is 37 percent of the global total. The rate of growth of literacy in India has been Sluggish and 1990; a study estimated that it would take until 2060 for India to achieve universal literacy at then-current rate of progress. The 2011 census however indicated a 2001- 2011 decade literacy growth of 9.2 percent, which is slower than the growth seen during previous year (Census 2011).

STATEMENT OF THE PROBLEM

The literacy rate is one of qualitative indicators of human development. The whole socio economic dynamism depends upon the literacy rate of the population. Historic past indicates that the growth of literacy rate) India has been sluggish' and also given rise to the illiterate's population which is now highest in the world too. During the British period the Literacy rate was very slow. However, in the year

1881, it was 3.2 percent, and subsequently, in the year, 1931, it was 7.2 percent. On the eve of Independence (1947), it was merely 12 percent. It has been observed that the literacy rate among the various segments of the populations is determined by some of historic, socio-economic and religious factors which have given rise to rural-urban, malefemale, inter-religion , inter-castes and inter-region disparity. Despite the consistent efforts made by government of India and the state government, the disparities are still going on with the time.)It is therefore, the present study throw an adequate light on the Literacy perspective' and its related issues.) order to become a Human Resource, it is not adequate to raising the merely numerical strength of the literate people, but it become imperative to educate the people with quality education, so that the different segments of the population may become to understand their respective professional skill in an effective ways. (text derived from LITERACY PERSPECTIVE OF INDIA IN THE CHANGING SCENARIO: AN EVALUATION; International Journal of Research in Economics and Social Sciences)

- The government should aware the people, particularly the people from low socio-economic backgrounds, about the education of the girls, particularly in the rural areas of the states with the help of some of NGOs working on these issues.

- A special attention should be paid to the low literacy areas

- There should be an advocacy and campaigning programme for creative awareness among the masses, particularly in rural areas of the country.

Keeping in mind the above-mentioned points–

[MARKS 40]

Design and explain an interactive (application, website or other) solution that addresses to the aspects mentioned and also include the
1. cognitive principles
2. solution iterations
3. a hypothetical timeline
4. design approach
(and other details that feel would validate your solution strategy)

484—568

4ᵗʰ SEMESTER
B.Des

END TERM EXAMINATION   **May-2023**

DD244a Process and Methods in Interaction Design

Time: 03Hours   *Max. Marks: 40*

> **Note:** All questions are compulsory.

Keeping in mind the discussions we have had this semester, please attempt the following questions.

1. What are the Questions that you have asked yourself in relation to the discussions that took place? Dig into the depths of your memory and answer them with further questions.   [10 Marks]

2. List down the experiments that you have undertaken this semester. How did you go about these experiments?   [5 + 5 Marks]

3. Illustrate them in an interesting manner.   [10 Marks]

4. Describe the UX Philosophy that you have developed over time as a Design Student. How is this Design Philosophy going to help you in the long run?   [10 Marks]

485-569

4ᵗʰ Semester

BDES Program

END TERM EXAMINATION

DD272 Theory of Cinema Culture & Media Practices

May-2023

Time: 3:00 Hours

Max Marks: 40

Note: Assume suitable missing data, if any.

Q.1 Attempt **any two** of the following:

a) What do you understand about the cinematic term 'film noir'? Name at least three such films.

b) Write a note on the primary organizations that promote India Cinema.

c) Elaborate on the nature and characteristics of Indian Cinema. Discuss the role of costumes and styling in film making.

d) Explain the film style of Akira Kurosawa. Name at least three films directed by him.

[10x2=20] [CO-1]

Q.2 Attempt **any one** of the following:

a) Write a note on Indian film history. Elaborate your answer by giving suitable examples.

OR

b) Discuss any two European and Indian films. Critically evaluate the work of the Board of film censor in India.

OR

c) What are the characteristics of French new wave cinema? Support your answer with relevant examples.   [20] [CO-1]

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4th Semester
BDES Program
END TERM EXAMINATION   May-2023
DD276   Sequential Art
Time: 3:00 Hours   Max Marks: 40

> Note: All Questions are compulsory.
> Assume suitable missing data, if any.

Q.1   Attempt **any one** of the following:

a) 'Time, tension and composition' are important factors that storytellers and illustrators work with. Elaborate by giving illustrative examples of such scenes/ panels where each factor is in use and working for the story progression.

OR

b) Time moves through space in panels of comic books. Explain by giving any three types of transitions with illustrative examples.
[20] [CO-1]

Q.2   Attempt **any one** of the following:

a) What are the major differences between an Animatic and storyboard? What are the benefits of having animatics over storyboard in a professional project such as television commercials or films.
Discuss the various steps involved in making animatics from class projects with illustrative panels.

OR

b) Explain 'Juxtaposition' in visual communication by giving any two illustrative examples. Why are these associations (Union, contrast or special effect) important in creating new ideas in the visual world communication and why designers should not shy away from exploring and experimenting with juxtaposition.

[20 Marks] [CO-1]

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B.Des
6th Semester

End Term Examination

May-23

DD302   Sustainable Design

Time: 3 Hours

Max. Marks: 40

Note: Attempt any four questions.
Each question is Ten marks.
Assume suitable missing data; if any.

Q1: Discuss the concept of biomimicry and how it can be applied in sustainable design. Provide examples of how biomimicry has been used in product design and architecture.

Q2: Discuss the concept of cradle-to-cradle design and its significance in achieving sustainability: Provide examples of cradle-to-cradle design in product design.

Q3: What are the future trends in sustainable design? How can designers and engineers stay up-to-date with emerging technologies and practices in sustainable design?

Q4: How are Indian consumers responding to the use of EVs, and what role it is playing in promoting sustainable design practices?

Q5: Explain the following terms

1) Frugal Design
2) Cradle to grave
3) Circular economy
4) Product Life cycle

Total no. of Pages: 01   Roll no..............

BDes_SEMESTER_V

END TERM EXAMINATION.   May-2023

DD304   Design Management

Time: 03:00 Hours   *Max. Marks: 40*

Note: All questions are compulsory.

Q1. As the Design Manager supervising the design team in an organization, you have been tasked to bring out a product/service to the market for giving a competitive edge to the organization. Please enumerate the process/models you will undertake

  i.   With in the design team;   [20]

  ii.   With the stakeholders with in the organization.   [20]

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6th SEMESTER
B.Des

END TERM EXAMINATION
May-2023

DD322   Psychology and Behaviour Science

Time: 03 Hours

Max. Marks: 40

Note : All the questions are compulsory.
: Marks are written along with the question paper.
: Assume suitable missing data, if any.
: A4 drawing sheet to be provided by the institute.

1. Who are you?   (1 marks)

2. What is Psychology?   (2 marks)

3. Name three elements of personality.   (3 marks)

4. What are the two parts of superego?   (2 marks)

5. Why do we use Empathy Map?   (2 marks)

6. What is Empathy Map?   (2 marks)

7. What happens if there is an imbalance between the Elements of personality?   (2 marks)

8. What does an Empathy Map looks like? Explain with examples.
                                                           (5 marks)

9. What is Cognitive Ease? Explain with examples.   (5 marks)

10. Explain ID, Ego and Superego with examples.   (6 marks)

11. Create an abstract artwork on A4 sheet, inspired by a real-life experience with a product.   (10 marks)

Total No. of Pages:2   Roll No...............

SIXTH SEMESTER   **(B. Des)**

END SEMESTER EXAMINATION   May-*2023*

DD324 DATA VISUALIZATION

Time: 3:00 Hours   *Max. Marks:* 40

Note: **All questions are compulsory. Assume suitable missing data, if any.**

SECTION A

Q1 Attempt any *FIVE*:   [2X5]

   a) What are different steps involved in data analysis.
   b) Why is data cleansing important for data visualization?
   c) What do you mean by data visualization .
   d) What is scatter plot used for?
   e) What is the use of heat maps?
   f) How animation can be used for data visualization.

SECTION B

Attempt any *three*:   [2X5]   3X10

Q2 a) What is the process involved in creating a map using cartography techniques ?
b) Explain four stages of data visualization ? What are different data visualization techniques?

Q3a) How can narrative elements be incorporated into a map or cartographic representation to enhance its storytelling capacity, and what are some examples of effective text visualization techniques used in this context?
b) How does the use of color in data visualization affect the interpretation and understanding of the data, and what are some best practices for using color effectively?

Q4a) How can multi-dimensional data be represented visually in a way that facilitates understanding and analysis, and what role does the perception of space and graphical perception play in this process?
b) What are some popular visualization software tools that are used for creating data visualizations, and what are the benefits of using interactive visualization and animation in data visualization?

Q5a) Why is data visualization important in data analysis, and what are some key considerations for designing effective data and image model visualizations?
b) What are some key features of Tableau that make it a popular choice for data visualization, and how does it compare to other data visualization tools?

6th Semester
BDES Program
END TERM EXAMINATION   May-2023
DD332   Photography-2
Time: 3:00 Hours   Max Marks: 40

Note: Assume suitable missing data, if any.

Q.1

a) Capture the nine Rasa through photography from your surroundings and submit prints on A4 good quality paper.

b) Write a short note on Rasa, elaborating giving examples of your photographs taken.

[15+5=20] [CO-1]

Q.2

Attempt **any two** of the following:

a) What is the essence of 'the art of photography'. Why it is so important in visual communication. Briefly describe the basic steps of a professional photography session.

b) What are the major nine rules of photography? Explain the foremost rule in detail giving examples.

c) Name any five professional photographers you follow and what appeals to you about their unique approach to photography. What are the various ways photographers make money for their services?

d) What are the important features of 'Fine art photography'? How it is different from commercial photographs.   [10x2=20] [CO-1]

6th SEMESTER

B.Des

END TERM EXAMINATION

May-2023

DD342 Usability Insights

Time: 03 Hours

Max. Marks: 40

Note: All questions are compulsory.

"Usability is about people and how they understand and use things, not about technology." - Steve Krug

You have been working on numerous projects throughout the semester. Attempt the questions keeping in mind the various steps and processes that you followed.

1. Define your topic. What were the various problems and issues that you were trying to solve with the help of the topic?   [5 + 5 Marks]

2. Whom did you Design for? If you worked on a system who were the stakeholders? How did you understand the issues that they were facing?   [5 + 10 Marks]

3. Describe and Illustrate the process and framework that you have come up with.   [10 Marks]

4. Explain the application of your Framework with some examples.
                                      [5 Marks]

SIXTH SEMESTER   **(B.Des)**

END SEMESTER EXAMINATION   **May-2023**

DD344 DESIGN AND PROGRAMMING

Time: 3:00 Hours   ***Max. Marks: 40***

Note: **All questions are compulsory. Assume suitable missing data, if any.**

SECTION A

Q1 Attempt any *FIVE*:   [2X5]

     a) What are diamond box in flowcharts.
     b) What are actors in use cases?
     c) What is the difference between DFD and flowchart.
     d) What is a bubble diagram?
     e) Give example of ternanry relationship?
     f) What are data dictionary?

SECTION B

Attempt any three: [2X5]

Q2 a) Draw use case for result management system.
b) Draw DFD for online food ordering application.

Q3.a) Draw flow chart for function that takes in a list of numbers as input and returns the sum of all the even numbers in the list.
  b) Write code for above problem in python.

Q4 a) Draw flow chart for program that prompts the user to enter a word and then prints out the number of vowels in the word.
b) Write program for above problem in python.

Q5 a) Explain the tools for hardware and electronic prototyping.
b) Write program in python for finding whether a number is even or odd.Draw its flowchart .