

C-6218

Sub. Code

82723

B.Sc. DEGREE EXAMINATION, APRIL 2022

Second Semester

UI Design and Development

UI DEVELOPMENT – I

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define – Array.
2. What do you mean by Recursive?
3. What is overriding?
4. State the needs of Callback functions.
5. What do you mean by Image Slider?
6. What is Export Data?
7. List out the Importance of Partial.
8. State the need of framework.
9. Mention about Accessors.
10. List out the Importance of Maps.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Outline the different derived data types.

Or

- (b) Give a short note on Enum.

12. (a) Describe about Password Validation.

Or

- (b) Write about Advanced Java Script.

13. (a) Discuss the need of Smooth Scrolling using J Query.

Or

- (b) Describe about J Query functions.

14. (a) Explain about the Arguments.

Or

- (b) Describe about different types of framework.

15. (a) Write about basics of framework.

Or

- (b) Give a short note on XML parsing.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Elaborate the growth and Development Scripting.

Or

- (b) Explain about different constants.

17. (a) Give a detailed note on predefined event.

Or

(b) Describe about one dimensional and two dimensional array.

18. (a) Explain about pass by value.

Or

(b) Describe about SaaS framework.

C-6219

Sub. Code

82724

B.Sc. DEGREE EXAMINATION, APRIL 2022

Second Semester

UI Design and Development

UX DESIGN — I

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. What is UXD Design?
2. What is visual design?
3. What is contextual enquiry?
4. What is survey?
5. What is research?
6. Define ethnography.
7. What is marketing?
8. Define anthropology.
9. What is content strategy?
10. Expand CSF.

Part B

(5 × 5 = 25)

Answer **all** the questions.

11. (a) What are the elements of economy?

Or

- (b) Write about flow and interaction.

12. (a) Outline the importance of qualitative research.

Or

- (b) Outline the importance of quantitative research.

13. (a) Explain user group definitions.

Or

- (b) Write the procedure in selecting research questions.

14. (a) Discuss about the UXD ecosystem.

Or

- (b) Write about market segment analysis.

15. (a) Write about legal consideration.

Or

- (b) Write about flexible content strategies.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Elaborate on the golden rules of UX design.

Or

- (b) Elaborate on the effects of good UXD design.

17. (a) Elaborate on the research techniques and research analysis.

Or

(b) Explain the following in detail.

(i) Social anthropology

(ii) Cultural anthropology

(iii) Linguistic anthropology.

18. (a) Elaborate in detail about pricing and payment.

Or

(b) Highlight the importance of user profile and user analysis.

C-6223

Sub. Code

82742

B.Sc. DEGREE EXAMINATION, APRIL 2022

Fourth Semester

UI Design and Development

WEB APPLICATION DEVELOPMENT

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is server side development?
2. List out the advantages of using PHP.
3. Define classes and namespaces in PHP.
4. State cookies and sessions.
5. Write the join query with example
6. State union in DBMS.
7. List out the procedure of database connectivity.
8. State Normalization.
9. Define Asynchronous script.
10. List out the advantages of using AJAX.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) How to run the interactive PHP shell from the command line interface?

Or

- (b) What is the difference between PHP4 and PHP5?

12. (a) Write a short on how PHP and HTML interact.

Or

- (b) How can we connect to a MySQL database from a PHP script?

13. (a) Explain different schemas used in DBMS.

Or

- (b) Summarize the functionalities of JDBC.

14. (a) List the types JDBC drivers.

Or

- (b) What are the advantages of using a DBMS?

15. (a) What is a synchronous request in AJAX?

Or

- (b) What are the different ready states in AJAX?

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Difference between synchronous and asynchronous AJAX requests.

Or

- (b) Explain in detail about pooling in AJAX.

17. (a) Explain the DBMS architecture with example.

Or

(b) Explain the connectivity procedure of PHP and DBMS.

18. (a) Write a short notes on how to optimizing the database.

Or

(b) Discuss briefly about the storage procedures in DBMS.

C-6224

Sub. Code

82743

B.Sc. DEGREE EXAMINATION, APRIL 2022

Fourth Semester

UI Design and Development

MOBILE APPLICATION DEVELOPMENT

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. How do you compile the Java program? Explain.
2. What is meant by Encapsulation?
3. List out different types of java constructors.
4. What are the advantages of interface?
5. What is the importance of having an emulator within the Android environment?
6. Why byte code cannot be run in Android?
7. Define content provider.
8. Difference between on Create() and onStart().
9. List any four hardware interfaces in android.
10. Difference between RelativeLayout and LinearLayout.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Discuss any four basic concepts of Object oriented programming.

Or

- (b) Discuss in detail about different media queries with proper example.

12. (a) Write short notes on Threads.

Or

- (b) Discuss the similarities between interfaces and classes.

13. (a) Differentiate between IOS and Android.

Or

- (b) Compare the open source vs traditional development methodologies.

14. (a) Write short notes on Inter process communication mechanism.

Or

- (b) Write short notes on Implicit and Explicit Intents.

15. (a) Discuss about event listener and handler with example.

Or

- (b) With example explain Multimedia Techniques in Android.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write a java program to arrange the elements of the array in an ascending order.

Or

- (b) What are the steps involved in loading and running a remote Applet? Explain.

17. (a) Explain how a small application is designed, developed and deployed in emulator using Eclipse.

Or

- (b) Write notes on.

- (i) Animation
- (ii) Updation
- (iii) Setting timer.

18. (a) What is persistence? How is data stored and retrieved to a database?

Or

- (b) How are debugging and emulators useful in eclipse for programming?

C-6227

Sub. Code

82755A

B.Sc. DEGREE EXAMINATION, APRIL 2022

Fifth Semester

UI Design and Development

INFORMATION ARCHITECTURE

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define user behaviour.
2. What is taxonomies?
3. What is IA navigation?
4. What do you meant by heuristic analysis?
5. Write short notes on page stack.
6. Define user modeling.
7. Define web page design.
8. What do you meant by metadata?
9. What is web crawling?
10. Define search Engine Algorithms.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Discuss about informative architectures.

Or

- (b) Write short notes on IA organization and labelling system.

12. (a) Explain navigation system and their types.

Or

- (b) Write a short notes on

(i) Competitive analysis

(ii) Heuristic analysis.

13. (a) Explain

(i) User centered design

(ii) User research methods.

Or

- (b) Elaborate IA strategy.

14. (a) Explain web page design.

Or

- (b) How web design advanced search based on metadata?

15. (a) Write a short notes on
(i) Search engine optimization
(ii) Search engine architecture.

Or

- (b) Explain search engine algorithms.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss in detail IA search system.

Or

- (b) Write short notes on
(i) Tools of the trade
(ii) Page strack
(iii) Task flows.

17. (a) Explain in detail metadata.

Or

- (b) Discuss organization systems.

18. (a) Explain in detail search operators.

Or

- (b) Explain in detail
(i) On page SEO
(ii) Off page SEO.

C-6229

Sub. Code

82755C

B.Sc. DEGREE EXAMINATION, APRIL 2022.

Fifth Semester

UI Design of Development

HUMAN CENTERED DESIGN

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Emotional Design.
2. What do you meant by Behavioural design?
3. What is interaction design?
4. How can be interaction design as Business Lubricant.
5. What is Tangible User Interface?
6. What do you meant by frameworks?
7. List out few products for kids design.
8. Define HFE.
9. What do you meant by metal workload.
10. Define Visual comfort.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Elaborate on levels of Design.
- Or
- (b) Explain the stages of human system design.
12. (a) Explain computation and operations of Interaction Design.
- Or
- (b) Write short notes on interaction design. Explain.
13. (a) Properties of GUI. Explain.
- Or
- (b) Classification of TUIS. Explain
14. (a) How designs are used for kids? Explain.
- Or
- (b) Elaborate contextual application development.
15. (a) Explain the concepts of workspace envelopes.
- Or
- (b) Define Visual comfort and give one of its example.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail Emotional Design with suitable example.
- Or
- (b) Explain Tangible user Interface with suitable examples.

17. (a) Narrate the compatibility relation between in display of control.

Or

(b) Elaborate in detail Human factor Engineering with suitable examples.

18. (a) Explain in detail Display and control design with suitable examples.

Or

(b) Explain in

(i) Tokens and constraints

(ii) Playful User Interfaces.

C-5664

Sub. Code

**16/17/23/25/
26/27/29**

**Common for All U.G. B.Sc./B.B.A. DEGREE
EXAMINATION, APRIL 2022**

First/Second Semester

ENVIRONMENTAL STUDIES

(2019/2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. ZSI.
2. WII.
3. What is renewable energy?
4. Food web.
5. Pyramid of numbers in aquatic ecosystem.
6. Red data book.
7. List out any five Endemic species of India.
8. List out marine pollutants.
9. *Ex Situ* Conservation.
10. Enlist Option Values of Biodiversity.

Part B

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Write notes on definition, scope and importance of environmental studies.

Or

- (b) Write notes on soil erosion and desertification.

12. (a) Write notes on energy flow in the ecosystem.

Or

- (b) Write notes on threads to biodiversity.

13. (a) Write notes on Biodiversity at Global, National and Local levels.

Or

- (b) Write notes on various strategies of conservation of Biodiversity.

14. (a) Write notes on ecological pyramids.

Or

- (b) Write notes on air pollution.

15. (a) Write notes on noise pollution.

Or

- (b) Write notes on effects and control measures of nuclear hazards.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write an essay on the multidisciplinary nature of Environmental Studies.

Or

- (b) Write an essay on the following resources with special emphasis to how they are overexploited/utilized which in turn damage the environment, (i) Forest Resources and (ii) Food Resources.

17. (a) Write an essay on “India is a mega-diversity nation”.

Or

- (b) Write an essay on Biodiversity and their values.

18. (a) Write an essay on causes, effects and control measures of (i) Marine Pollution and (ii) Water Pollution.

Or

- (b) Write an essay on concept, structure and function of ecosystem.