#### Office of the Controller of Examinations

Sanothimi, Bhaktapur

## Regular/Back Exam – 2082 Shrawan/Bhadra

Full Marks: 80

Diploma in Information Technology/ Program:

Computer Engineering

Year/Part: III/II (2022) © Arjun Pass Marks: 32

Multimedia System Subject: Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. www.arjun00.com.np

## Attempt any EIGHT questions.

- Define data streams. Explain the components of multimedia [3+7] 1. system.
- Explain the concept of sound. Explain how speech is analyzed 2. [2+8]and transmitted.
- What is image analysis? Describe image analysis techniques. 3. [3+7]
- What do you mean by computer based animation? Explain. 4. [7+3]Also, discuss on animation language.
- Write five need of multimedia compression. Differentiate 5. [5+5]between lossy compression method and loss less compression method.
- Explain the development phases of multimedia in brief. 6. [10]
- Explain quality of service and database management system in 7. [5+5]multimedia.
- Discuss on model for multimedia synchronization. 8. [10]
- 9. Write short notes on: (any <u>TWO</u>) [2×5]
  - Tips for creating good user interfaces
  - Object oriented approaches
  - Trends in multimedia applications
- Explain multimedia system development cycle in brief. [10]

#### Council for Technical Education and Vocational Training Office of the Controller of Examinations Sanothimi, Bhaktapur Regular/Scholarship Exam - 2081 Kartik/Mangsir Full Marks: 80 Diploma in Computer/Information Technology Engineering Program: Pass Marks: 32 III/II (2022) © Arjun Time: 3 hrs. Year/Part: Candidates are required to give their answers in their own words as far as practicable. The Multimedia System figures in the margin indicate full marks. Attempt any EIGHT questions. What are the applications of multimedia? Explain various [4+6] 1. multimedia components. What are the steps of audio digitization? Describe about [4+6] 2. methods of controlling animations. What is a digital image? Explain how image synthesis and [2+8] 3. image analysis is performed. Write the needs for data compression. Explain about LZW [4+6] 4. compression. What is user interface and why is user interface important? [4+6] 5. Explain the phases of multimedia project development. Explain multimedia database management system. What is [6+4] 6. collaborative computing? What is synchronization and what are synchronization issues? [5+5] 7. Explain abstraction levels of programming in multimedia www.arjun00.com.np system. Explain multimedia development cycle. Explain the trends of [5+5] 8. multimedia application. Write short notes on: (any TWO) [2×5] 9. User friendliness as primary goal Multimedia system development life cycle

## Good Luck!

Object oriented approach

## Council for Technical Education and Vocational Training Office of the Controller of Examinations

Sanothimi, Bhaktapur

## Back Exam – 2081 Kartik/Mangsir

Diploma in Computer Engineering Program:

Full Marks: 80

Year/Part:

III/II (2018)

© Arjun

Pass Marks: 32

Subject:

Multimedia Technology

Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. www.arjun00.com.np

## Attempt any EIGHT questions.

- [2+8]Define multimedia. Explain the components of multimedia. 1.
- Define analog and digital data? What are the hardware [2+8]2. requirement in multimedia? Explain.
- 4+6 What is font and typeface? Explain the use of textual 3. communications in multimedia.
- Differentiate between vector and bitmap images [10] 4. examples.
- What is audio/digitization? Explain audio software and [4+6] 5. production with examples.
- Explain software testing in detail with its types. [10] 6.
- Define data compression. Differentiate between lossless [2+8] 7. compression method and lossy compression method.
- communication [2+8] 8. Define multimedia network. Explain standards.
- Define web based animation. What are the application of [2+8] 9. animation? www.arjun00.com.np
- 10. Write short notes on: (any TWO) [2×5]
  - Introduction to flash
  - Digital video format and technology
  - Morphing and inverse kinematics



## Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam – 2080 Magh/Phagun

Program: Diploma in Computer Engineering
Year/Part: III/II (2018) © Arjun

Full Marks: 80
Pass Marks: 32

Subject: Multimedia Technology Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

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## Attempt any EIGHT questions.

- List out and explain functions and applications of multimedia [3+7] technology.
- What is universal serial bus? Describe the Graphics Card and [2+4+4]
   Graphics Processing Unit (GPU).
- What do you mean by textual communication? Explain text [3+7] design guidelines in detail.
- Differentiate between bitmap and vector graphics. Explain [5+5] graphics editing software in detail.
- What do you mean by digitization? Explain audio file format [3+7] in detail.
- Define animation. Explain application areas of animation in [2+8] detail.
- Describe the concept of multimedia project development. [8+2]
   Write the different types of software testing.
- Define compression. Why multimedia compression is [2+2+6] important? Differentiate between lossy and lossless compression.
- Write short notes on: (any <u>TWO</u>)
   [2×5]
  - a. Media Composition
  - b. Sound/audio system
  - LZW compression

# Office of the Controller of Examinations

Sanothimi, Bhaktapur

Suno	citizati, sometime	
Regular/Back	Exam-2080,	Magh/Falgun

Year/Part:		III/II (2016) © Arjun  Multimedia Technology  Pass Mark  Time: 3 hr	Full Marks: 80 Pass Marks: 32 Time: 3 hrs.	
Ca	ndidates are	Multimedia Technology  required to give their answers in their own words as far as practicable.  argin indicate full marks.  Multimedia Technology  WWW.arjun00.C	om.n	
Jigi	ares we true mu	www.aijuiio	[2+8]	
1 2.	Define l	Multimedia. Explain various multimedia components.  Speech Generation. How does sound be represented	[6+4]	
~.			[5+5]	
3.	1000000 100 27	Image Analysis and Image Transmission.  you mean by computer based animation? Discuss on a second transmission of animation on	[4+3+3]	
4.	the anii	nation languages and transmission of animation on th suitable examples.  lo you mean by Data compression? Differentiate	[2+4+4]	
6	between example Define	lossless and lossy compression with suitable s. nultimedia design. Explain development phases of	[2+8]	
7	Discuss	about the Multimedia Communication System. about Multimedia Database Management System amples. www.arjun00.com.np	[2+8]	
8.	Differen	ntiate between Hypertext and Hypermedia. Explain ocument Architecture.	[5+5]	
9.	Describ model.	e about the four-layer synchronization reference	[10]	
0.	Write sh	nort notes on : (Any Two)	[2x5=10]	
	a) Trend	ls in multimedia application		
	b) Object	ct oriented approaches		
	Simon Hillian			

c) Toolkits

#### Council for Technical Education and Vocational Training Office of the Controller of Examinations Sanothimi, Bhaktapur Regular/Back Exam-2079 Chaitra/2080 Baishakh Full Marks: 80 Diploma in Computer Engineering Pass Marks: 32 Program: HI/II (2018) © Ariun Year/Part: Time: 3 hrs. Multimedia Technology Subject: Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. www.arjun00.com.np Attempt ALL questions. Define multimedia. Write the components of multimedia. Explain the application of multimedia. [4+6]What is analog and digital data? Explain about USB, graphics card and graphical processing unit (GPU). [5+5]Differentiate between hypertext and hypermedia. Write the 3. guidelines for text design. List the different graphics editing software. Differentiate [5+5] between raster and vector image with example. Define and explain audio digitization. Write about audio file [6+4]5. formats. What is animation? Explain the principles of animation. List 6. [2+6+2]application of animation. www.arjun00.com.np What is software testing? List the different software testing. 7. [2+3+5]Write about the compression techniques used in multimedia. Write short notes on: (any TWO) 8. [2×5] a. Multimedia Network Font and Typeface c. Computer Color

Good Luck !

d. Photoshop

#### Office of the Controller of Examinations

Sanothimi, Bhaktapur

## Regular/Back Exam-2079/2080, Chaitra/Baishakh

Diploma in IT Engineering Program: Full Marks: 80 Pass Marks: 32 Year/Part: III/II (2016) © Ariun Subject: Multimedia Technology Time: 3 hrs. Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. www.arjun00.com.np Attempt Any Eight questions. 1. What are the uses of multimedia? Explain multimedia [3+7]system and its properties. 2. What is sound/audio system? Explain speech generation [2+8]and analysis. 3. How can you represent a digital image? Explain image [4+6]synthesis. 4. What do you mean by Computer-Based animation? What [2+8]are the methods of controlling animation? 5. What is the purpose of data compression? Explain LZW 4+6 compression. 6. What is hypermedia? Explain document architecture ODA. [2+8]7. Define user interface. Explain about HTML and SGML. [2+8]

Write short notes on: (Any Two)

[2x5=10]

[10]

- a) Trends in multimedia
- b) System software
- c) Designing multimedia

8. Explain briefly about model for multimedia synchronization.

## Office of the Controller of Examinations

Sanothimi, Bhaktapur

# Regular/Back Exam-2078/2079, Chaitra/Baishakh

Pro	ogram: Diploma in Computer Engineering Ful	l Marks: 80
Year/ Part: III/II (2018 New) © Arjun Pass		Marks: 32
		ime: 3 hrs.
	didates are required to give their answers in their own words as far as press in the margin indicate full marks.  Attempt Any Eight Questions.	
1.	Define multimedia. Explain various multimedia components.	[2+8]
2.	Define external storage and Graphical processing unit.  Describe about graphic and image editing in multimedia.	[4+6]
3	Explain about hypertext and hypermedia. What do you mean by typeface and font?	[5+5]
4.	What is graphics? List and explain various image formats.	[2+8]
5.	Describe the standards for Video broadcasting. Explain about graphics editing Software.	[6+4]
6.	What is animation? Write down the guideline for using animation. Explain briefly about morphing.	[2+4+4]
7.	What is regression testing? Explain about image and Video Compression. Www.arjun00.com.np	[4+6]
8.	What are the applications of Photoshop? Differentiate between lossy and lossless compression.	[5+5]
9.	Write short notes on : (Any Two) a) Bitmap Vs vector	[2x5=10]
	b) Audio digitization c) Application of multimedia	

### Office of the Controller of Examinations

Sanothimi, Bhaktapur

## Regular/Back Exam-2078, Chaitra-2079 Baishakh

Diploma in Information Technology Full Marks: 80 Program: © Arjun Year/Part: III/II (2016) Pass Marks: 32 Time: 3 hrs.

Subject: Multimedia Technology

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. www.arjun00.com.np

	Attempt any EIGH1 questions.	
1.	What is multimedia? Explain properties of multimedia system.	[5+5]
2.	Explain concept of sound. Explain speech transmission in brief.	[5+5]
3.	How digital image is represented? Explain about image analysis and transmission.	[5+5]
4.	Define computer based animation. Explain methods of controlling animation.	[2+8]
5.	What is data compression? Why we need it? Explain about lossy compression.	[4+6]
6.	Explain development phase of multimedia.	[10]
7.	Explain about quality of service. Explain about document architecture SGML.	[5+5]
8.	What is user interface? Explain about user friendliness as the primary goal in user interface. www.arjun00.com.np	[4+6]
9.	What is higher programming language? What is toolkits?	[5+5]
10	. Write shot notes on :	[2×5]

- a. MHEG
- b. System Software

## Office of the Controller of Examinations

#### Sanothimi, Bhaktapur Pagular/Rack Evam 2077 Chaitra

	Regular/Back Exam-2077, C	naitra
D	D' L ' TT/C L E	F-11 NA-

Diploma in IT/Computer Engg. Full Marks: 80 Program: Year/Part: III/II (2008, 2013) © Arjun Pass Marks: 32 Subject: Multimedia Technology Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. www.arjun00.com.np in the margin indicate full marks.

## Attempt Any Eight questions.

- What is multimedia? Classify different types of medium. [2+8]Explain different attributes of sound waves in brief. Also 2. [5+5] describe MIDI basic Concept. What is an image? List the different file format of image. [2+2+6]differentiate between vector and raster graphics. Differentiate between video and animation. Explain different [4+6] stages of computer based animation. What do you mean by data compression? Differentiate between [2+8]lossless compression method and lossy compression method. Explain the importance of Hypermedia database in modern [5+5] application. Explain different types of multimedia database. 7. Explain user Interface. Explain general design issues in [4+6]multimedia in brief. www.arjun00.com.np Describe about the four-layer synchronization reference model. [10]
- Write short notes on: (Any Two)

[2x5=10]

- a) Trends in multimedia application
- b) Image Synthesis
- c) Toolkits.

## Council for Technical Education and Vocational Training Office of the Controller of Examinations

Sanothimi, Bhaktapur

## Regular/ Back 2075 Shrawan / Bhadra

Program: Diploma in Computer Engineering/ Full Marks:80

Information Technology.

© Arjun Year/ Part: III/II

Pass Marks: 32

Subject: Multimedia Technology Time: 3 hrs.

Candidates are required far as practicable. The f



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#### Attempt Any Eight Questions.

- 1. Explain the properties of multimedia system according to [5+5]variation of consecutive packet amount. Also discuss on information units
- 2. Explain speech generation. How does sound be [6+4] represented digitally? Explain.
- 3. What is image? Differentiate between vector and raster image [2+2+4] with examples.
- 4. What do you mean by computer based animation? [7+3] Explain. Also discuss on animation language.
- 5. What is data compression? Why do we need data [2+2+6] compression? Explain about entropy and hybrid coding.
- 6. What are the basic design issues of user interface? How [4+6] can we get user friendliness in user interface?
- 7. Explain briefly about application subsystem and multimedia [10] database management system.
- [3+3+4] 8. What is HTML? Why does HTML know as markup language? Write short notes on document www.arjun00.com.np architecture.
- [10] 9 Discuss on model for multimedia synchronization.

Contd.....



[2x5]

- Media Composition
- ii. System software.
- iii. Trends in multimedia applications



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