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Council for Technical Education and Vocational Training

## Office of the Controller of Examinations

Sanothimi, Bhaktapur

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

Program: Diploma in Computer Engineering Full Marks: 80
Year/ Part: III/II (2018 New) 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.

#### Attempt Any Eight Questions.

- Define multimedia. Explain various multimedia [2+8] components.
- Define external storage and Graphical processing unit. [4+6]
   Describe about graphic and image editing in multimedia.
- Explain about hypertext and hypermedia. What do you [5+5] mean by typeface and font?
  - What is graphics? List and explain various image [2+8] formats.
  - Describe the standards for Video broadcasting. Explain [6+4] about graphics editing Software.
  - 6. What is animation? Write down the guideline for using [2+4+4] animation. Explain briefly about morphing.
  - 7. What is regression testing? Explain about image and [4+6] Video Compression.
  - 8. What are the applications of Photoshop? Differentiate [5+5] between lossy and lossless compression.
  - 9. Write short notes on : (Any Two) [2x5=10]
    - a) Bitmap Vs vector
    - b) Audio digitization
    - c) Application of multimedia

Good Luck!

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

Regular/Back Exam-2078/2079, Chaitra/Baishakh Program: Diploma in Computer Engineering

Full Marks: 60 Year/ Part: III/II (2018 New) Pass Marks: 24

Subject: Internet 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.

### Attempt Any Five Questions.

- a) Explain the concept of clients and servers in Internet [6] Technology. Explain satellite communication in brief. b) What is ISP? How internet is access to mobile and [6] residential area? https://www.arjun00.com.np
- 2. a) Differentiate between TCP/IP and UDP. [6]
  - b) What is IP address? Explain the IPV4 with example. [6]
- 3 a) What do you mean by Domain Name System? How [2+4]DNS resolves domain name into IP address?
  - b) What is SMTP? Explain its types with their protocols. [2+4]
- a) Define universal internet browsing. What is the need [2+4] for multiple protocol support? with diagram. [6]
  - b) Describe the HTTP message format with diagram.
- a) Explain Routing Information Protocol and OSPF in 5. [6] brief.
  - b) Differentiate between link state and distance vector [6] routing algorithm.
- Write short notes on : (Any Four) [4x3=12]
  - i) Intranet and Extranet
  - ii) Network security
  - iii) Trending multimedia technology
  - iv) Cloud computing
  - v) Data center and Data warehousing

#### Good Luck!

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

Sanothimi, Bhaktapur

Yes	ogram: Diploma in Computer Engineering	Full Marks: 80		
Year/ Part: III/II (2018 New) Pass Ma				
	Subject: Data Mining Time:			
Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.				
	Attempt Any Five Questions.			
1.	<ul> <li>a) Define data mining with its functionalities. important application of data mining.</li> </ul>	Mention [5+3]		
	<ul> <li>b) What is fact constellation schemas? Exp schema with its advantages and disadvantages</li> </ul>			
2.	a) Describe data warehouse. Differentiate warehouse with DBMS. website :- https://v			
	<ul> <li>b) What are the important characteristics of Differentiate OLAP with OLTP</li> </ul>	f OLTP [3+5]		
3.	<ul> <li>a) What is clustering? Explain linear and N regression.</li> </ul>	lon-linear [8]		
WE	b) Define decision tree Explain entropy and in the gain in detail.	formation . C [8]		
4.	<ul> <li>What are the drawbacks of K-mean algorithm' Agglomerative clustering in brief.</li> </ul>	? Explain [8]		
	<ul> <li>b) Explain DMQL with its syntax and example.</li> </ul>	[8]		
5.	a) What do you mean by slice and dice, drill up down in multidimensional data?	and drill [8]		
	<ul> <li>b) Explain advance data mining with its i features.</li> </ul>	mportant [8]		
6.	Write short notes on : (Any Four)	[4x4=16]		
	i) K-me doid algorithm	*		
	ii) Deep Learning			
	iii) Fp-growth Algorithm			
	iv) MOLAP			
	v) DMQL			
	Good Luck!			

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Program: Diploma in Computer Engineering Full Mar Year/ Part: III/II (2018 New) Pass Mar Subject: Software Engineering Time:				
			Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.	
	Attempt Any Five Questions.			
1.	<ul> <li>a) Differentiate between following terms:</li> </ul>	[5+5]		
	i) Program Vs software			
	ii) Software process and software process mod	iel		
	b) What are the good characteristics of software?	Explain. [6]		
2.	<ul> <li>a) Describe spiral model with its advantage</li> </ul>			
	b) Explain RAD (Rapid application development)	model. [8]		
3	a) Explain the detail task in a software continuous management process with example.	figuration [10]		
	b) Define Risk. Explain the process of Risk manage	gement. [6]		
4.	<ul> <li>a) What do you mean by requirement elicitation down various methods of gathering requirement explain them.</li> </ul>	nent and		
	b) Why do we use Use-case diagram in object development? Draw a Use-case diagram for a course registration system.	an Online		
5 5	a) Describe about the software design model and strategies. ILDS://WWW.anun	UU.com.		
	b) What is software metrics? Explain it with exam	ples. [2+6]		
6.	<ul> <li>a) What is software quality? Discuss about reliability model.</li> </ul>			
	b) List and explain different types of software test	ting. [8		
	Write short notes on : (Any Two)	[2x8=16		

Good Luck!

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ii) Quality assurance

iii) Verification Vs validation

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Council for Technical Education and Vocational Training

# Office of the Controller of Examinations

Sanothimi, Bhaktapur

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

Full Marks: 80 Program: Diploma in Computer Engineering

Pass Marks: 32 Year/ Part: III/II (2018 New)

Time: 3 hrs. Subject: E-Commerce (Elective II)

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

#### Attempt Any Eight Questions.

- Explain e-commerce with an example. What are the [3+7]categories of e-commerce? Explain in brief
- What is consumer to consumer (C2C) e-commerce? [3+7]2. Differentiate between B2B and B2C e-commerce
- [2+4+4] 3. What is I-way? Describe the components of I-way. What are the types of software agent? Www.arjun00.com.np Define EDI. What are the applications of EDI. Discuss [2+4+4]
- 4. briefly on the security and privacy issues of EDI.
- Explain the m-commerce architecture. List out any five 5. [5+5]advantages of m-commerce.
- Explain digital signature and digital certificate. Describe 6. [5+5]the security issues in e-commerce
- What is cyber law? describe the importance of cyber 7. [2+3+5]law. Write down the characteristics of successful entrepreneusite:-https://www.arjun00.com.np
- What do you mean by online marketing? Explain. 8 [5+5] Describe the challenges of online marketing.
- 9. Write short notes on : (Any Two)

[2x5=10]

- i) VPN
- ii) Online Banking
- iii) Payment gateway
- iv) Firewall

#### Good Luck!

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