

5 Years Integrated MCA, Utkal University

End Semester Examination, 2021

DI-7.1

Time-3hrs

Total mark-70

1. I) Single user vs multiuser. [7]  
ii) Batch processing vs real time processing. [7]  
OR  
Check whether the following schedules are conflict serializable or not using stepwise method. [14]
  - i) S: R1(A);W1(A);R2(A);R1(B);W1(B);R2(B)
  - ii) S:R1(A);W1(A);R2(A);R2(B);W1(B)
  - iii) S:R(A),R2(A);R1(B);R2(B)R3(B);W1(A)
2. I) Explain the features of OODBMS. [7]  
II) What is RDB DESIGN and explain it in details. [7]  
OR  
Short notes [14]
  - i) Behaviour interface and Extend inheritance.
3. I) What is threats and briefly explain its kind. [7]  
ii) what is firewall and how it works in database security? [7]  
OR  
iii) Data encryption help in database security. Justify it. [7]  
iv) Briefly explain the architectural model of DDBMS. [7]
4. I) Why XML is called Markup language? Explain the applications Of XML. [7]  
ii) Explain the data types of PHP with example. [7]  
OR  
iii) Describe the character entities of XML. [7]  
iv) What is the difference between RDB and XML DB. [7]
5. I) What are the user interaction issues occur in data mining? [7]  
ii) Explain the different approach of data warehouse. [7]  
OR  
iii) How knowledge discovery process work in data mining? [7]  
iv) Explain different types of clustering method ? [7]