

**2023**  
**SRCMUJ**  
**2<sup>nd</sup> Semester Examination**  
**Integrated MLIS**  
**Library and Information Science**  
**LIS-203**  
**Library Automation and Networking**

Full Marks: 40

Time: 2 Hours

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

**1. Answer *any two* from the following questions: 5 x2**

- A. Differentiate ***any two*** of the following pairs of concepts:  $2\frac{1}{2} + 2\frac{1}{2}$
- a. Web 2.0 vs. Web 3.0
  - b. Gold OA vs. Green OA
  - c. HTML vs. XML
- B. Write brief notes on ***any two*** of the following concepts:  $2\frac{1}{2} + 2\frac{1}{2}$
- a. GEMS in Greenstone
  - b. Z39.50
  - c. UNICODE
- C. What is SKOS? Describe different types of semantic relationships in SKOS with suitable examples. 1+4
- D. Comparison among Apache Lucene, Apache Solr, MGPP and Zebra (as core parameters). 5

**2. Answer *any three* from the following questions: 10x3**

- A. What is ontology? Explain the different object properties in ontology with suitable graphical examples. 2+8
- B. Define truncation search with suitable examples. Describe twelve possibilities of Koll's (2000) structure analogy between information retrieval and finding needle (resources) in haystack (IR system). 3+7
- C. What is digitization? Mention the steps behind the process of digitization. 3+7
- D. Describe the bottom layer (hypertext web tools) containing technologies of the semantic web. Give the graphical (tree) representation of the following code written in XML:

```
<?xml version="1.0" encoding="UTF-16"?>
<!DOCTYPE library SYSTEM "library.dtd">
<library location="Jhargram University">
  <author name="Krishan Kumar">
    <book title="Library Classification"/>
    <book title="Clataloguing"/>
    <book title="Reference service"/>
  </author>
</library>
```

```
</author>
<author name="S R Ranganathan">
  <book title="Cataloguing"/>
  <book title="Prolegomena to Library Classification"/>
</author>
<author name="A k Ohdedar">
  <book title="Research Methodology"/>
</author>
</library>
```

4+6

E. What is IDR? Why DSpace is the popular choice for building IDR? Describe the architecture of DSpace with a suitable diagram. 1+3+6

PYQ 2023