

**B.E. PRINTING ENGINEERING FOURTH YEAR FIRST SEMESTER EXAM 2024**

**Subject: WORKFLOW MANAGEMENT(HONS.)**

**Full Marks: 100**

**Time: 3Hr.**

**Answer each CO separately in one place.**

**CO 1: Describe different components and modules of workflow systems (K2)**

**Answer any 1 question (1 x 40)**

1. a) Describe the important characteristics of WMS. 10  
b) Describe the overall flowchart of WMS. 15  
c) Describe the major types of WMS. 5  
d) Describe the EXIF and IPTC metadata. 10
2. a) Describe XMP briefly. 10  
b) Describe different parameters that are checked in preflighting. 15  
c) Describe the general structure of a JDF using XML tagging. 5  
d) Describe basic functionality of order management system. 10

**CO 2: Show the different communication models of workflow systems like CIP4/JDF, JMF, etc. (K3)**

**Answer any 2 question (2 x 20)**

3. a) Show nodal hierarchy tree of JDF. 10  
b) Show the prepress activity flowchart for commercial printing. 10
4. a) Show the approval process in JDF. 10  
b) Show the activity diagram of folding carton preparation. 10
5. a) Show the state transition diagram. 10  
b) Show the JDF model for offset printing 10

**CO 3: Illustrate the architectural model of different workflow systems (K4)**

**Answer any 1 question (1 x 10)**

6. Illustrate the flowchart of sheetfed offset. 10
7. Illustrate the print finishing model for production of stitched brochure. 10

[ Turn over

**CO 4: Explain the scope of personalization in print production system (K5)**

**Answer any 1 question (1 x 10)**

8. Explain how the web-to-press can be implemented for customization and personalization of print production. 10
9. A press received an order for a printing a brochure. About 10,000 copies to be printed. There are 2 sheetfed and 1 web offset presses available in this press. The job to be completed within 5 days. Provide a possible JDF nodal schematic for this job assuming the different parameters as required but please list all your assumptions clearly. 10