



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR SCIENCE

COMPUTER SECURITY AND FORENSICS

3RD YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: IIT 3314

COURSE TITLE: ORGANIZATION AND PROJECT MANAGEMENT

EXAM VENUE:

STREAM: Bsc FORENSIC

DATE: DEC 2016

EXAM SESSION:

TIME: 2.00 HOURS

INSTRUCTIONS:

- 1. Answer Question 1 (Compulsory) and ANY other two questions**
- 2. Candidates are advised not to write on the question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

QUESTION ONE [30 MARKS]

- a) Explain the meaning of a project and project management (4 marks)
- b) Explain the issues you would take into consideration while recruiting new personnel to the IT department. (8 marks)
- c) What do you mean by a dummy activity? Why it is used in networking? (4 marks)
- d) Explain the relevance of E-Portfolio and its applicability in today's economy (6 marks)
- e) Explain the factors considered in building an effective teams in software project management (8 marks)

QUESTION TWO [20 MARKS]

- a) What is employability competencies, explain the relevance of the employability competencies in career development (4 marks)
- b) Discuss three points on how you might integrate new personnel into the project team for this new system. (6 marks)
- c) A project consists of seven activities and the time estimates of the activities are furnished as under:

| Activity | Optimistic Days | Most likely Days | Pessimistic Days |
|----------|--------------------|---------------------|---------------------|
| 1-2 | 4 | 10 | 16 |
| 1-3 | 3 | 6 | 9 |
| 1-4 | 4 | 7 | 16 |
| 2-5 | 5 | 5 | 5 |
| 3-5 | 8 | 11 | 32 |
| 4-6 | 4 | 10 | 16 |
| 5-6 | 2 | 5 | 8 |

Required

- i. Draw the network diagram. (4 marks)
- ii. Identify the critical path and its duration. (2 marks)
- iii. What is the probability that project will be completed in 5 days earlier than the critical path duration? (2 marks)
- iv. What project duration will provide 95% confidence level of completion ($Z_{0.95} = 1.65$)? (2 marks)

QUESTION THREE [20 MARKS]

- a) Explain any two Project Management Tools and Techniques (4 marks)
- b) Explain any four Nonnumeric Selection Methods of a project (8 marks)
- c) Curriculum Vitae is the most important critical stage of presentation of skills to the immediate potential employer ,explain the Content of such a good Curriculum Vitae (4 marks)
- d) Discuss interview techniques which may enhance success in an oral interview (4marks)

QUESTION FOUR [20 MARKS]

- a) Explain project selection and the process involved in selection of projects (4 marks)
- b) What is the purpose of a cover letter? (2 marks)
- c) Explain the following critical path variables (4 marks)
 - i. Earliest start time
 - ii. Earliest Finish time
 - iii. Late start time
 - iv. Late start time
- d) Infosys International PVT Company wanted to recruit her employee to meet their new human workforce requirements. The HR manager was asked to hire based employability skills Explain in depth the following basic skills (6 marks)
 - i. team-work skills
 - ii. generic, basic skills
 - iii. personal management skills
- e) Explain how work break down structure is used in project (4 marks)

QUESTION FIVE [20 MARKS]

A small project of software development composed of 7 seven activities whose times estimates are listed in the table below activities are identified by their beginning (i) and ending (j) node numbers. Required

- a) Draw the project network and identify all the paths through it (4 marks)
- b) Find the expected duration and variance for each activity. What is the expected project length (6 marks)
- c) Calculate the expected and the standard deviation of the project length. What is the probability that the project will be completed
 - i. At least 3 weeks earlier than expected (2 marks)
 - ii. No more than 3 weeks later than expected (2 marks)
 - iii. If the project due date is 18 weeks, what is the probability of not meeting the due date. (2 marks)
 - iv. What due date has about 90% chance of being met (2 marks)

| <i>i-j</i> | <i>Activity Estimated duration in Weeks</i> | | |
|------------|---|--------------------|--------------------|
| | <i>Optimistic</i> | <i>Most Likely</i> | <i>Pessimistic</i> |
| <i>1-2</i> | <i>1</i> | <i>1</i> | <i>7</i> |
| <i>1-3</i> | <i>1</i> | <i>4</i> | <i>7</i> |
| <i>1-4</i> | <i>2</i> | <i>2</i> | <i>8</i> |
| <i>2-5</i> | <i>1</i> | <i>1</i> | <i>1</i> |
| <i>3-5</i> | <i>2</i> | <i>5</i> | <i>14</i> |
| <i>4-6</i> | <i>2</i> | <i>5</i> | <i>8</i> |
| <i>5-6</i> | <i>3</i> | <i>6</i> | <i>15</i> |

- d) Explain any four reasons for modern Trends in Project Management (4 marks)