

ISO 9001:2008 Certified Institute

**JAVA INSTITUTE FOR ADVANCED TECHNOLOGY**

Department of Examinations



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| COURSE(S) – (LEADING TO) | PROFESSIONAL HIGHER DIPLOMA IN SOFTWARE ENGINEERING |
| ASSIGNMENT STARTING DATE | 16th May 2020 |
| ASSIGNMENT CLOSING DATE | 23rd May 2020 |
| UNIT NAME | PROJECT MANAGEMENT |
| UNIT ID | HF2N 08 |
| ASSIGNMENT ID | HF2N 04/AS/08 |
| DESCRIPTION | Exercise on Earned Value Management (Individual Assignment) |

**GUIDE LINES FOR CANDIDATES**

Student should prepare a document (PDF or doc format) for a given problem in Earned Value Management and should know calculations and diagrams.

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| NAME : | KANDAGE DON ISHAN VIHANGA VIMUKTHI  .................................................................................................................................... (BLOCK CAPITALS) |
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Java Institute for Advanced Technology Sri Lanka

**Earn Value Management**

Laebuy Company bit another huge project. Total budget for this project $ 130 million.

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| --- | --- | --- | --- |
| Activity | Duration | Dependent | Cost |
| A | 4 | - | 20 |
| B | 2 | A | 24 |
| C | 5 | A,B | 35 |
| D | 4 | C | 24 |
| E | 3 | C | 9 |
| F | 2 | D,E | 18 |

1. Draw Gantt chart for this cost report to find week by week cost.
2. After 15 weeks actually project cost $ 120 million. According to the schedule project must finished after 17 weeks. As a project manager you realize project team have completed 80 % of the project. According to the details find :
   1. Earned value(EV)

EV = BOC \* AC %

= $130 \* $80 %

= $104 million

* 1. Budget of completion

BOC = $130 million

AC = $120 million

* 1. Schedule Variance(SV)

SV = EV – PV

PV = BOC \* PC

PV = 130 \* 80 %

= $104

SV = EV – PV

= 104 – 104

= 0

* 1. Schedule performance index(SPI)

SPI = EV / PV

= 104 / 104

= 1

* 1. Cost variance (CV)

CV = EV – AC

CV = $104 – $120

CV = $-16

* 1. Cost performance index(CPI)

CPI = EV / AC

CPI = 104 / 120

CPI = 0.867