#

# King Saud University

**Information Systems Department**

# Project Management (IS-351)

# Home Work # 2

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| **Student Name:-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Section No.: \_\_\_\_\_\_\_\_\_** |
| **SID No.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Student Class No.: \_\_\_\_\_\_\_\_** |
| **Total Marks:- 10** | **Marks Awarded:\_\_\_\_\_\_\_\_\_\_** |

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**Question 1:**  Match column (A) with column (B) **(3.5 points)**

|  |  |  |  |
| --- | --- | --- | --- |
| *Number index* | **COLUMN (A)** | *Alphabet Index* | **COLUMN (B)** |
| [1] | **WBS is an acronym for** | [P] |  A document that formally recognizes the existence of a project and provides direction on the project’s objectives and management |
| [2] | **A scope statement is** | [Q] | Critical Path Method |
| [3] | **A project charter is** | [R] | The series of activities that determine the earliest time by which the project can be completed. |
| [4] | **CPM is an acronym for** | [S] | A resource works on more than one task at a time |
| [5] | **A critical path for a project is** | [T] | a document used to develop and confirm a common understanding of the project scope |
| [6] | **Multitasking occurs when**  | [U] | Work breakdown structure |
| [7] | **Program Evaluation and Review Technique (PERT)** | [V] | Uses probabilistic time estimates –duration estimates based on using optimistic, most likely, and pessimistic estimates of activity durations-instead of one specific or discrete estimate. |

**ANSWER:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Number Index in Column A*** | [1] | [2] | [3] | [4] | [5] | [6] | [7] |
| ***Matching alphabet Index in Column B*** | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

**Question 2:**  **(2 points)**

1. ***Carefully read the three following statements labelled A, B, C and D based on the diagram shown below in figure 5-2*:**



1. *In the Activity-on-Arrow diagram, shown in the above figure, the number 8 represents*

 *a node.*

*B) In the Activity-on-Arrow diagram, shown in the above figure, the two nodes labelled 3 and 6 respectively, represent the starting and ending point of activity F.*

 *C) In the Activity-on-Arrow diagram, shown in the above figure, the first node labelled 1 signifies the start of the project.*

*D) In the Activity-on-Arrow diagram, shown in the above figure, the node labelled 6 signifies the end of the project, because many arrows are meeting at this node.*

1. ***Answer by putting an (\*) in the vacant cells of the table provided, indicating your judgement as (T) or (F) or (I don’t know) to the indexed statements of the table labelled as 1, 2, 3 and 4 respectively. Only one choice is correct. In case of more than one choice, the answer is null.***

**ANSWER:**

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| --- | --- | --- | --- | --- |
| ***Index*** | ***Statement to be judged as (T) , (F) or (I don’t know)*** | ***T*** | ***F*** | ***I don’t know*** |
| ***1*** | ***The information provided in Statement (A) is not correct*** |   |  |  |
| ***2*** | ***The information provided in Statement (B) is not correct*** |  |  |  |
| ***3*** | ***The information provided in Statement (C) is correct*** |  |  |  |
| ***4*** | ***The information provided in Statement (D) is correct*** |  |  |  |

 **Question 3:** **(4.5 points)**

***Inspect the diagram shown below then answer the questions related to it.***



**Q 3.a *How many path(s) are in this diagram starting from node 1 to node 8? (0.5 point)***

**ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q 3.b *Name the path(s) that are in this diagram starting from node 1 to node 8? (0.5 point)***

**ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q 3.c *How many critical path(s) are in this diagram starting from node 1 to node 8? (0.5 point)***

**ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q 3.d *Name the critical path(s) that are in this diagram starting from node 1 to node 8?***

 ***(0.5 point)***

**ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q 3.e** *W****hat is the shortest time to complete the project whose activities are shown in the figure? (0.5 point)***

**ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q 3.f *Based on the same diagram, name the activity that must be done before activity D? (0.5 point)***

**ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q 3.g *Based on the same diagram, name the activity that must be done before activity G? (0.5 point)***

**ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q 3.h *Based on the same diagram, name the two nodes that represent the final activity of this project? (0.5 point)***

**ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Q 3.h *Based on the same diagram, name the two nodes that represent activity G of this project? (0.5 point)***

**ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Question 4: Bonus question (1 point)**

**Define the following term: Critical Chain Scheduling.**

**ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Q1 /3.5 pts** | **Q2 /2pts** | **Q3 /4.5pts** | **Q4 /1pt****(BONUS)** |
| **[ / 3.5 ]** | **[ / 2 ]** | **[ / 4.5 ]** | **[ / 1 ]** |

|  |  |
| --- | --- |
| **Mark out of [10]** | **Mark out of [1.25]** |
|  |  |