

Tutorial 2 –Scrum Worksheet (5%) –Submit to BB due : 22 June 2019.

Please refer to the video links published in BlackBoard to understand the Scrum development approach to software development and answer the following questions.

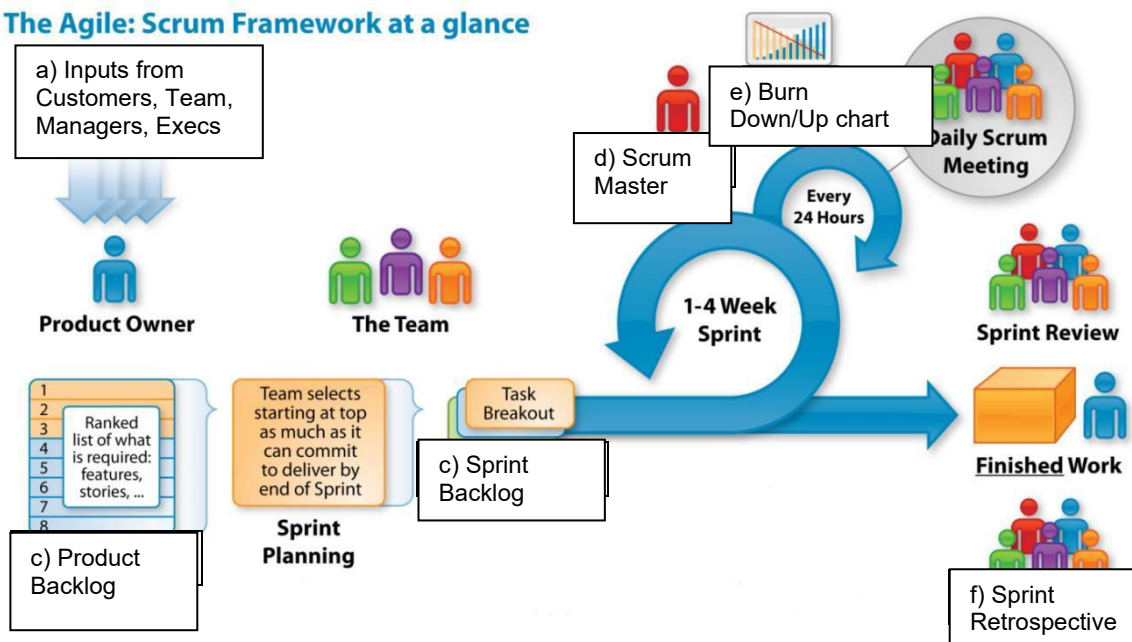
1. Match the following terminologies that uses in the Scrum development approach (A to I) with its explanation (1 to 9). Example : A3

<u>Terminology</u>	<u>Ans</u>	<u>Explanation</u>
A. Burndown Chart	Ans : A7	1. The person who is responsible for the product version, backlog items and their prioritization from business perspectives. He sets the directions of the product.
B. Daily Scrum (Stand Up Meeting)	Ans : B2	2. A meeting to allow the team to update each other what they have completed and obstacles faced. This communication makes sure everyone in the team is in sync and the progress towards the sprint goal.
C. Product Owner	Ans : C1	3. It's a subset of the release backlog. A list of all the tasks the development team has to do during a sprint. At the end of it, 'ship-ready' features are to be released.
D. SCRUM Master	Ans : D8	4. List of features from the customers' perspective. It could be from users, executives or even team members. It usually starts with: "As a xxx, I would like to xxx"
E. Product Backlog	Ans : E9	5. A time-boxed cycle during which the development team is asked to transform user stories into increment of shippable product. It is relatively short duration milestone.
F. Sprint backlog	Ans : F3	6. A meeting to go through what worked and what didn't work and determine whether there is anything they can learn from the experience and improve further.
G. User Stories	Ans : G4	7. A tool used to monitor the progress of each sprint. It is very visible as it displays day-by-day measure how much work remains to do. The desired trend should be towards zero. The slop can be used to calculate the velocity or rate of productivity for each day.
H. Sprint Retrospective	Ans : H6	8. The person responsible to help the team to understand and apply SCRUM practices to a project properly.
I. Sprint	Ans : I5	9. Collection of the list of user stories that make the product great. They are like the 'wish list'!

2. The diagram below shows an overview of the Scrum Framework. Fill up the missing parts indicated (a to f).

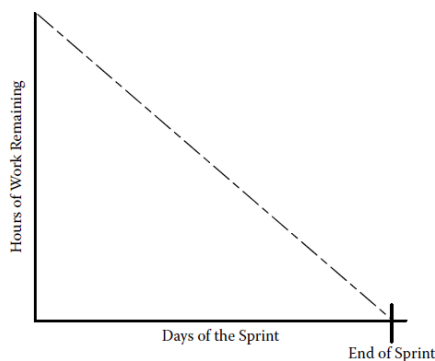
(Hint – these are the terms mentioned in Q1)

The Agile: Scrum Framework at a glance

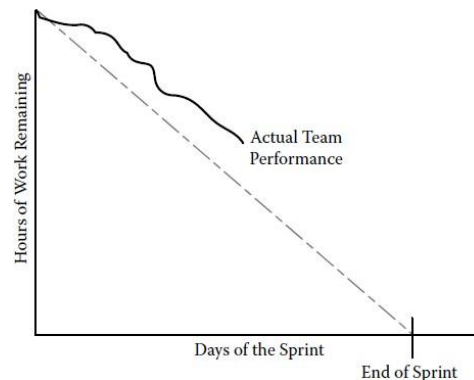


3. Analyze how the following practices are used to control the progress in Scrum project teams.

- Scrum daily meeting (what are the recommended 3 questions to ask during the meeting)
 - What did you do yesterday?
 - What will you do today?
 - What is blocking progress?
- Write down your observation(s) to the Burndown chart B. Is the project doing well?



Burndown Chart A - Ideal burn down chart



Burndown Chart B - ?

No, the hours of work remaining so far in burndown chart B is more than what is shown in burndown chart A.

- List TWO considerations that you think are very critical to make a decision to adopt Agile/Scrum methodology in your project.
 - Collection of feedback from the customer and other stakeholders.
 - Risk identification

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5. During your ITP, you are tasked to work on a SMART nation projects with unclear initial requirements and is forewarned of possible changes due to frequent technology updates. Fortunately, the client is keen to see the success of the project and promised to give full support whenever is required. Recommend to your project manager the development framework your team should follow. State your reasons for your recommendation. Highlight one key risk factor that may need to highlight for your recommendation. Indicate how you could manage this risk.

I would recommend the SCRUM framework, which is an agile methodology framework as the project has frequent technology updates which is unstable. Thus, waterfall methodology is not suitable for the project due to the condition of stable requirements.

Risk involved: The project might go over budget.

Risk management: Identify the items that might result in the project going over budget and why are these items on the list as well as who is responsible for running the project on time and on budget.