Section A: Session beans

Q 1 . Name one difference between a session bean and a message bean.
Q2. List four actions typically implemented in a session bean:
i) iii)
ii) iv)
Q3 Give a one sentence description that highlights the difference between each of the three types of session bean:
i) Stateless session bean:
ii) Stateful session bean:
iii) Singleton session bean:
Q4 . Give <u>three</u> properties of a stateful session bean:
i)
ii)
iii)
Q5 . Give <u>three</u> properties of a stateless session bean:
i)
ii)
iii)
Q6 . Give <u>two</u> properties of a singleton session bean, and one example of where you might use a singleton session bean:
i) Example:
ii)
Section B: Accessing a Session bean Q7: Give a one sentence description that highlights the difference between each of the following methods for accessing a session beans:
i) No interface

- iii) Remote interface
- iv) Web service

Section C: Services available to a session bean

- **Q8.** Give two differences between the following ways to code access to a resource in an EJB container:
 - i) JNDI
 - ii) Dependency injection
- **Q9**. Explain the following call to the timer service:

@schedule (hour="12/6", dayOfMonth="4th Fri") public void sampleDataset()

Section D: Session Bean Life Cycle

- **Q10**. Explain the two states of a stateless session beans life cycle.
- i)
- ii)
- **Q11**: Explain the <u>three</u> states of a stateful session bean's life cycle.
- i)
- ii)
- iii)

Section E: Message beans

- **Q12**. Give an example of when you might use a **message** bean.
- **Q13**. Explain the role of the *onMessage* method in a message bean:
 - i) How is the method called, and by whom?
 - ii) What services can it avail of?