Week 3 Assignment 3

The due date for submitting this assignment has passed. Due on 2021-03-10, 23:59 IST.

As per our records you have not submitted this assignment.

1. Ubiquitin is attached to which position of the lysine amino acid side chain?
   - N
   - O
   - E
   - S
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:

2. Which of the following factors is not required for formation of the prereplicative complex on origins?
   - Origin recognition complex
   - Cdc6
   - Phosphorylated MCM proteins
   - Cdb1
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Phosphorylated MCM proteins

3. Which of the following is present in proteins that Ubiquitin-like protein family?
   - five stranded $\beta$-sheet
   - coil helix
   - sheet 3 $\alpha$ helix
   - All the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: All the above

4. Pick the odd one out from the given options:
   - HMG domain
   - HSET domain
   - U-box
   - Destruction box
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Destruction box

5. Which of the following has been implicated in the regulation of histone stability for controlling gene expression?
   - Heterochromatin, replication checks
   - Heterochromatin, replication checks
   - APC/C
   - H3-H4 ubiquitin chains
   All the above
   Answer: C only
   Answer: C and D only
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   All the above

6. Select the odd one out from the given options
   - Ubiquitin
   - Histidyl
   - Sumo-I
   - Thio
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Thio

7. In which phase of the cell cycle does licensing of replication origins occur?
   - S phase
   - Late M/G2 phase
   - G2 phase
   - Late S/G2 phase
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Late M/G2 phase

8. Which of the following statements is incorrect for S phase of the cell cycle?
   - S phase is also known as the syntheses phase of the cell cycle
   - The entry of a cell into the S phase is highly regulated
   - Once the cell passes through the G1 restriction point, it gets committed to go through S phase
   - Removal of external stimuli inducing entry into S phase, causes the S phase cells to go back to the G1 phase
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Removal of external stimuli inducing entry into S phase, causes the S phase cells to go back to the G1 phase

9. External growth factors induce the synthesis of D-type cyclins in mammalian cells. This cycle is important for:
   - The cells to exit the restriction point
   - Inactivation of Cdk6
   - Inactivation of E2F
   - None of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: The cells to exit the restriction point

10. Which is the catalytic subunit of the 26S proteasome?
    - 170 subunit
    - 195 subunit
    - 205 subunit
    - 255 subunit
    No, the answer is incorrect.
    Score: 0
    Accepted Answers: 205 subunit