Universiti Malaysia PAHANG Engineering • Technology • Creativity **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**	**SUBJECT: Biochemistry**			**MARKS**: /10
	CODE: BSB1113	**TOPIC:** Electron Transport Chain, photosynthesis, glycogen metabolism, gluconeogenesis and pentose phosphate pathways		
	ASSESSMENT: Quiz 3	**NO:** 3	**DUE/DURATION:** 30 min	
NAME:		**STUDENT ID:**	**SECTION:**	

You are required to answer True OR False for each of these statements followed by justifying accordingly of your chosen answer.

1. In the glycogen synthase reaction, the precursor to glycogen is UTP-glucose followed by the glycosyl transfer onto the reducing end of a glycogen primer.

[2 marks]

2. In photosynthesis, light cycle located in inner membrane while dark cycle within matrix of mitochondria.

[2 Marks]

Universiti Malaysia PAHANG Engineering • Technology • Creativity **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**	**SUBJECT: Biochemistry**			**MARKS**: /10
	CODE: BSB1113	**TOPIC:** Electron Transport Chain, photosynthesis, glycogen metabolism, gluconeogenesis and pentose phosphate pathways		
	ASSESSMENT: Quiz 3	**NO:** 3	**DUE/DURATION:** 30 min	
NAME:		**STUDENT ID:**	**SECTION:**	

3. Electron Transport Chain generates oxidized NADH and $FADH_2$.

[2 Marks]

4. Gluconeogenesis is the direct reverse of glycolysis.

[2 Marks]

Universiti Malaysia PAHANG Engineering • Technology • Creativity **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**	**SUBJECT: Biochemistry**			**MARKS**: /10
	CODE: BSB1113	**TOPIC:** Electron Transport Chain, photosynthesis, glycogen metabolism, gluconeogenesis and pentose phosphate pathways		
	ASSESSMENT: Quiz 3	**NO:** 3	**DUE/DURATION:** 30 min	
NAME:		**STUDENT ID:**	**SECTION:**	

5. Pentose phosphate pathway is important to build the base structure of a nucleotide.

[2 Marks]

END OF QUESTION