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1ST Year Solved Exercise MCQs

NAME:			ROLL NO:		TIME:	5: MIN
SUB:	Physics	Date:			CLASS:	1st Year
SYLLABUS	Chp. 11 (Special Theory of Relativity)		T. MARKS	5	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x5=5)

1. **Relativistic mechanic yield results different from mechanics for objects moving with:**
   (A) Low velocity (B) Velocity equal to that of sound waves
   (C) Velocity greater than sound waves (D) Velocity approaching that of light
2. **If an observer is moving in the same direction as a sound waves, the velocity of the wave seems to be :**
   (A) More (B) Less (C) Constant (D) Sum of the two velocities
3. **If the rest mass of a particle m_o increases to m due its high speed, then its kinetic energy is:**
   (A) ½ mc^2 (B) ½ mv^2 (C) $(m-m_o)c^2$ (D) ½ $(m-m_o)c^2$
4. **The speed of beam light of a car while moving with high speed as compared rest position is:**
   (A) Greater (B) Less (C) Same (D) Zero
5. **A photon is a particle of light. What is its mass when it moves with 0.9 c?**
   (A) 9.1 x 10^{-31} kg (B) 1.67 x 10^{-19} kg (C) 1.67 x 10^{-27} kg (D) Zero

Answer Key							
1	D	**2**	B	**3**	C	**4**	C
5	D						