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Completion Type Questions - Exercise -1: Time travel

27 minutes left

Completion Type Questions Exercise - 1

PASSAGE

Time travel: a conversation between a scientist and a literature professor

Literature professor Simon John James (SJJ) and physicist Richard Bower (RB) were both involved in the curating of the exhibition, Time Machines - the past, the future, and how stories take us there. Here, they discuss how time traveling in literary and scientific terms might, one day, coincide.

RB: Time travel is the basis of modern physics, and, for anyone that looks up at the night sky, an everyday experience. When we view the stars and planets, we see them, not as they are now, but as they were in the past. For the planets, this time delay is only a few minutes, but for most of the stars in the night sky, thousands of years. For galaxies, faint smudges of light made up of very distant collections of stars, the delay can be millions or billions of years. By observing the faintest galaxies with the world's latest telescopes, we can look back through time and watch the whole history of the universe unfold.

But this is not the most satisfying kind of time travel. It allows us only to gaze into the past as remote observers. One of the key challenges for modern physics is to determine whether it is possible to influence the past.

One of the key concepts of Einstein's Theory of Relativity is that objects exist in a long line in 4D space-time, a unification of time and space. Although all observers agree on the length of the world line that connects two events, they may have different views about whether the events occur simultaneously, or at the same location but at different times, or a mixture of both. For example, while I sit at my desk to eat lunch, then work a little and get up to go home several hours later, a (very) fast-moving observer will see me whizz by eating lunch and immediately getting up to go home. In Einstein's theory, time and space are mixed together: we cannot think of them separately. It, therefore, makes the best sense to think of myself as always moving along that 4D world-line, traveling into the future at the speed of light.

But is it possible to cheat the safeguards of Einstein's theory and to travel backward through time? At face value, the answer is no, but then again, the science of earlier generations would have said it was impossible for mankind to fly. Perhaps all scientists need is an inspiration and a cunning idea.

SJJ: Well, you can find a lot of inspiration and cunning ideas in fantastic fiction, of course. Perhaps the most famous time travel text is The Time Machine (1895) by HG Wells, which was the first to imagine humans traveling in time through the use of technology. Other of his imaginations have been realized - he imagined and wrote about the technology of powered flight before science made it possible in real life, for example. Wells innovative idea led to modern time travel stories such as Back to the Future or Doctor Who.

But many different kinds of stories travel in time: Aristotle observed that a good story has a beginning, a middle and an end - but they do not have to be in that order. Even a text as ancient as Homer's Iliad does not begin with the judgment of Paris, but with Achilles sulking in his tent in the ninth year of the Trojan War, and the story unfolds from there. Whodunnits usually don't tend to begin with the murder, but with the discovery of the body, and the plot is reconstructed by the detective as the story moves both forwards and backward. This is the temporal freedom of narrative time.

RB: What's freeing in the literary device is for practical time travel the central obstacle. Although Einstein's theories allow us to stretch and shrink time, the causal ordering of events remains constant. While, in your example, the life of the murder victim might experience their life flashing before their eyes in their dying seconds, the experience of their life will always precede the moment of death.

But in The Terminator, to take one example, the future human civilization finds a way to loop the protagonist's world line so that he travels back in time to intercept the cyborg and avert Sarah Connor's death. In the inner regions of a spinning black hole, space and time are mixed so that this is tantalizingly close to possible, but I've never knowingly met anyone that made their way back from the future this way. Perhaps the looped world line cuts off the old future and pops out a new future, creating parallel worlds that exist at the same time.

From the conventional point of view, there's rather a lot wrong with the idea of looping back in time. But modern interpretations of quantum mechanics suggest that the world may actually consist of many parallel futures, constantly splitting off from one another. All of these futures exist simultaneously, but we are only conscious of one of them. From this viewpoint, there isn't so much to fear from time travel. The looped world line simply creates another layer of possible futures.

SJJ: I'm fascinated by time travel's flexibility as a metaphor for talking about many different kinds of academic research. History, archaeology would be obvious examples, but in a recent project, I've been really inspired by work in the psychology of autobiographical memory. Narrative is not just a property of literary and other kinds of texts: it has been argued that the human sense of self is constructed from our narrativising of our own experiences within the passing of time: that memory and planning for the future are a kind of "mental time travel" which allows us to constitute identity.

Here my literary example is Charles Dickens's A Christmas Carol. Scrooge travels back to memories of his past selves, and by so doing is encouraged to change his ways for the better in the future. We could think of the despised, neglected misery of the vision of Christmas Yet to Come, and the beloved happy Scrooge of the novel's ending as those inhabiting two different "parallel worlds", perhaps?

RB: It's certainly fascinating how literary ideas challenge scientific understanding - perhaps both of those parallel futures might be proved equally real yet.

Questions

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Question 1-5	
Choose NOT MORE THAN THREE WORDS	from the passage for each answer. Write your answers in the blank given below. Any
grammatical errors or errors in spelling will	be marked wrong
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Q.3 Which was the first book to imagine h	umans traveling in time through the use of technology?
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Q.4 Who observed that a good story has a	a beginning a middle and an end?
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Q.5 Who is fascinated by time travel's flexi	ibility as a metaphor for talking about many different kinds of academic research?
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Question 6-10	
Choose NOT MORE THAN THREE WORDS	from the passage for each answer. Write your answers in the blank given
below.	nom the passage for each another time your another in the blank given
Q.6 Perhaps all scientists need inspiration	and
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Q.8 The looped world line simply creates	another layer
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