

Name _____

Date _____

Class Sec.

Instructions: Use the attached reading on the next page to answer the questions below. Please answer in complete sentences. Make sure to explain your answer for full credit.

1. In your own words, what argument does the reading give against presentism? Explain.
2. What's the Growing Block theory? When it says time is like adding "new layers" to the "top surface", what does that mean? Please provide text evidence.
3. What does the A-Model have to do with Endurantism?
4. Apart from what you read, why do you think people say both Presentism and The Growing Block theory are common-sense theories about time?

READING ON THE NEXT PAGE

How soon is now?

There are two models of time that have been debated by metaphysicians over the past century. I will spend some time on the first.

Think of an event such as the assassination of President Abraham Lincoln. For those living before 1865, the event was in the future. For us, the event is in the past. And on 14 April 1865 at about 10.15pm Washington DC time, it was a present event. Should we understand this case in terms of the spatial analogy? Did the event creep up on people, briefly attain presentness, and then go off into the past? Or is there some other way we should understand it?

There is a view that still has some respectability in which events have temporal properties of a sort. The assassination of Lincoln has a property of being past. A number of events have the property of being present, such as the event of you reading this sentence (and think of all the other events going on while you are reading). Many events have a property of being future, a property that might be called futurity. The Qatar football World Cup, the next UK general election, the solar eclipse of 21 September 2025, and the Earth's human population reaching eight billion are all examples, as far as can be told in 2012.

And here is where we might get some sense of the direction of time. Events always are first future, then present, then past. It never goes in the opposite direction, as far as we know. If backwards time travel is possible, that might complicate it, but it seems the three temporal properties are always possessed in that order. I am, of course, treating events as particulars here rather than what metaphysicians call types. The Olympics occurs every four years, but by that we mean a type of event. Each particular Games is a one-off, and it is such events-as-particulars to which I am referring. These events 'flow' from the future, through the present, and into the past.

Temporal properties would have some strange features. It seems they would be able to come and go in different combinations. What was future may now be past. The 2025 eclipse is in the future as I write this, but eventually it will be in the past. Perhaps you are reading this after it occurred. This shows me from my 2012 position that it has a property of being *future past*; that is, a future event will eventually become past (by October 2025, for instance). And there is also a past future. Lincoln's assassination was the future in 1860 but isn't any longer. His assassination hasn't been future since 1865. It might then be wondered how things can have qualities such as these and what is happening when they undergo a change in respect of them. Is it that there are lots of things standing around somewhere with the property of futurity, waiting until they attain the property of presentness? Are there future people who are longing to be present, thinking to themselves 'How soon is now?'? And where do they go when they attain a property of pastness? Does anything really have that property, or is it merely that they go out of existence?

No time like the present

There is a view that only the present is real; appropriately, it's called *presentism*. This could be thought of as a response to some of the questions just posed. For isn't it absurd to say there are things with the properties of futurity and pastness? To exist seems a condition of bearing properties, but one could argue that future and past things have no existence at all. Barack Obama was born in 1961. Wouldn't it be misleading to suggest that he existed in 1959 though at that time with the property of futurity? And Julius Caesar did exist for a time but he doesn't now. It would again be wrong-headed to say that he exists now but with the property of pastness. It seems an option, therefore, to say that instead of there being three temporal properties, we should instead substitute a simple notion of existence and allow that things come into and go out of existence. When present, they are real. After that, they are not.

That seems a sensible view, but here are some issues to be considered. First, how long does the present last? Is it today, or this minute, or just a second? At 20:50 in the evening, midday today is surely past. Indeed, even 20:49 is past, and two seconds ago also. The present seems like a tiny sliver. We can wait for its existence, but it is too quickly gone. Indeed, if there is a smallest unit of time—some micro-micro-second, which we might call an *instant*—then the present seems only to be as long as that instant. If we deny that, and argue instead that the present has some extension, then how long should we allow it to be? Two minutes? That looks an arbitrary figure. And yet if we don't allow the present to have some temporal extension, it seems almost to vanish to nothingness.

Here is a second problem for presentism. The notion of the present is challenged by relativity theory. I may think that the sun is now shining, and it thus seems to be part of the present. But I'm also told that it takes 8 minutes and 19 seconds for the light of the Sun to reach Earth. Absolute simultaneity has been challenged in physics, and we are told it's illegitimate to speak of two spatially separated events being simultaneous. You could view two stars collapsing in distant galaxies and it might look as if they are collapsing at the same time. But if one is much closer to your telescope than the other, then those events are not really simultaneous at all. There is a problem then of what exactly we mean by the present when it seems always relative to a position or a viewpoint. We could settle for a purely subjective account of the present—it's what appears to be *now*, for some viewer—but many of us don't want our metaphysics to be so dependent on one's point of view. We like to feel that we are dealing in objective, eternal, and immutable truths, unaffected by our human perspective on things.

Speaking of which, there is a further problem for presentism. Although Caesar is not alive, there is a strong sense in which he is nevertheless real, even now. There are facts about him—he crossed the Rubicon—and there must be something in virtue of which those facts are true. If only the present exists, what makes it true that there was a Second World War or an assassination of Lincoln? Wouldn't it be wise to say that those past occurrences and things are a part of our reality even if they are not present? Given the above considerations from relativity theory, there are even some past facts that I can still see: for example, what the Sun looked like eight minutes ago. What is there to stop someone rewriting history if we deny any reality to what happened in the past?

Getting pasturized

There is a view, therefore, that treats the past and future differently. It's one thing to call absurd the idea of future people standing around waiting to be born. But the past is not quite the same. It did exist. It was present. And in this sense, it should be counted part of the totality of reality. Being a part of reality but not in the present could account for our property of pastness, then.

This view is often likened to a growing block. One could think of the present as a thin layer on top of a big solid cuboid. New layers keep being added to it all the time on its top surface. Caesar, and all that he did, is there in the block, some little way down. When we speak of what exists, there are two things we could mean. What exists now is only the top surface of our block, which is in that position only fleetingly. Perhaps it is just a few molecules of the block thick. But we could also mean by what exists the entire block, which is the whole of existence from its start until present. The past is now part of this. But as new layers are added on to the growing block, former present events recede into the distance. We could say they become pasturized, just in virtue of having a new future built upon them.

We have moved, therefore, from a view that privileges the present to one that privileges both the present and the past, though not the future. This second view still has to face the problem of what counts as present: of how thin it is and of the problem of absolute simultaneity. To an extent, the problem remains of treating presentness and pastness as properties of events or things. The growing block picture has merely dispensed with the property of futurity.

I said earlier that there were two models of time philosophers had debated. The first tries to explain the passage of time in terms of events and things having a property of presentness, pastness, or possibly futurity. But we have seen that this leads us into saying strange things at every turn. Perhaps the problem is that we started by looking for a theory that would satisfy an image we had in which time flowed: it passed like the water in a river. There is a different way of understanding the temporal sequence, however. In this view, there is no property of presentness, nor pastness, nor futurity. Instead, we can only say that the events and things in our world stand in relations of order to each other. They are temporally related and to that extent can stand in a sequence.