

1. Is it possible to prove scientific knowledge? Yes = True; No = False

35/58 A True

19/58 B False

2. If YES (it is possible to prove scientific knowledge): How?**If NO (it is not possible to prove scientific knowledge): Why not?**

Because there can always be found an exception that is not yet found

yes, start from first principles and prove it using deductive reasoning (and/or mathematics)

we can prove scientific knowledge if we consider the fact that we prove human knowledge and we see everything in that perspective (in our time span and scale)

No. There can be no proof that observation is an accurate reflection of reality

through deduction and rationalism.

We do not know whether the 'knowledge' we collect is true. We can prove it with methods, but how do we know that those methods leads us to the truth? All is based on our assumptions, so there is no way to prove that something is true knowledge.

no, because there is always uncertainty

It is impossible to prove that there won't be a (still unknown) case in which the knowledge is false.

no, there will change to be false

by using observation to verify our knowledge

You can prove scientific knowledge by induction, but you should be aware of the fact that you make an invalid argument

by observation and reasoning by logic

Yes, if the first principles are assumed to be true. If this is not the case, then we cannot prove scientific knowledge.

Deductive reasoning

You can never be certain. Something 'proven' today can be falsified tomorrow.

No, it is only possible to disprove theories and laws but it's not possible to show that they will hold under any kind of circumstances

YES... though experiments applying scientific method. when they throw the same results after many trials then it be proven.

No, because there are always underlying assumptions which cannot be proven

if you assume the first principles/axioms to be true, then you can prove scientific knowledge

Of course it all depends how you define prove. If you mean absolute prove, I will stick to my answer of previous lectures that science are ideas backed up by evidence

The "actual" world is not to be known, neither by logical deduction nor by empirical induction. Science is just system tries to be consistent and explain. But it can never be justified according to how the world actually is.

Yes because scientific knowledge is already based on proven theories which can be proved once again

it is possible, because there should be a definition of what scientific knowledge is. then you can proof with methodology.

You can prove scientific knowledge by deduction from axioms and already known knowledge.

to experiment in a lot of settings so that we can induce that this knowledge is true for every circumstance

yes, prove in the sense that are under certain conditions true

No. There are always circumstances, or reasons in which knowledge can be proven otherwise.

yes, by experimentation and iterative steps

By doing several experiments which repeatedly show the behavior that the scientific knowledge predicts.

You cannot be really certain about anything, for sure

Our rationale can never have a necessary connection with the external world

Possible only if ALL possible occurrences of said knowledge can be proven to be true under ALL circumstances.

In practice, it can therefore NOT be proven :(.

Yes, If we define proof as making knowledge very likely, then knowledge can be proven by doing lots of observations.

no, it can never be proven fully, it can only be tested in a final set of conditions