

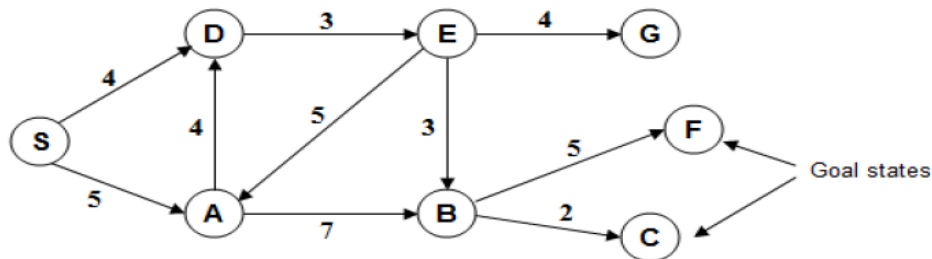


GRETSA UNIVERSITY
SCHOOL OF COMPUTING AND INFORMATICS
ASSIGNMENT 1 – SEPTEMBER - DECEMBER 2023

COURSE CODE: BSCS 401

COURSE TITLE: ARTIFICIAL INTELLIGENCE

- a) Consider the Google search engine. Explain the context in which it can be considered an intelligent agent. [4 mks]
- b) Using the Uniform-Cost search strategy, find a path from a city S to goal states/cities F & C. [6 mks]



- c) Using examples, discuss briefly how artificial intelligence is applied in the following fields: [6 Marks]
- (i) Natural language processing
 - (ii) Unmanned vehicles
 - (iii) Decision support
- d) Write a logical expression in FOL that describes the following sentence: *If I pass the test and I pass the coursework then I will pass the course* . State the meaning of any terminology you introduce. (4 mks)
- Build the truth table for the expression above (4 mks)

e) Convert the following English statements into first order predicate logic (6 mks)

- i. Anyone who abuses drugs kills himself
- ii. Everyone who is works hard will succeed
- iii. Every boy who is tall and dark is handsome