

**A. Complete the table with words of the same family**

Verb	Noun-agent	Noun	Adj
convene			(in)dependent
		economy	
interact			
judge		profession	
∅		science	
respond		responsibility	
		validity	
vary			

**B. Derivatives: fill in the blanks with the correct word form**

- The \_\_\_\_\_ approach to three-dimensional computer graphics produces images from geometric scene descriptions by simulating the \_\_\_\_\_ of light with matter. (**convene, interact**)
- If computer \_\_\_\_\_ are to be considered \_\_\_\_\_, it would seem reasonable to assume that they should also follow ethical guidelines. (**science, profession**)
- Individual users must exercise \_\_\_\_\_ in evaluating the \_\_\_\_\_ and appropriateness of information retrieved via the Internet and must assume personal \_\_\_\_\_ for its use. (**judge, valid, respond**)
- The \_\_\_\_\_ focuses his or her observations on the dependent variable to see how it responds to the change made to the \_\_\_\_\_ variable. The new value of the \_\_\_\_\_ variable is caused by and depends on the value of the independent \_\_\_\_\_. (**science, depend, depend, vary**)
- 30 percent of all students training for a PhD in \_\_\_\_\_ are women. But only 15 percent of all academic \_\_\_\_\_ are women, and only 5 percent of \_\_\_\_\_ professors are female. (**economyx3**)

Score: \_\_\_/14

**C. Tenses: decide on the correct verb form**

- There are a number of factors that make it difficult to synthesise the results of the review of the economic evidence of community-based substance misuse interventions for vulnerable young people. First, the studies \_\_\_\_\_ included a range of different interventions, \_\_\_\_\_ in different settings and on

- different populations. Second, the studies \_\_\_\_\_ different hypotheses. Third, the quality of the studies \_\_\_\_\_ (identify, implement, employ, vary)
2. Beyond the economic risks identified, there is additional risk \_\_\_\_\_ the savings and to generate the revenues associated with the measures \_\_\_\_\_ (associate, achieve, introduce)
3. In crucial issues, such as the relative importance \_\_\_\_\_ to economic growth versus price stability, member states couldn't \_\_\_\_\_ a clear and long-term agreement. Moreover, there \_\_\_\_\_ vital differences among countries over precisely what it \_\_\_\_\_ and what kind of strategies and institutional arrangements, liberalism \_\_\_\_\_ or was in line with. (attach, reach, remain, mean, necessitate)
4. The Section on Political Economy of the World-System \_\_\_\_\_ with \_\_\_\_\_ the study of world-systems over long periods of time. (concern, pursue)

Score: \_\_/14

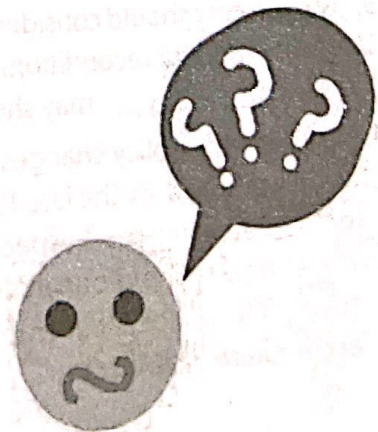
**D. Specialized vocabulary: choose words from the box to complete the sentences below**

Available	Planned	Rates	Software
Hardware	Policies	Sector	Simulation
mixed	Portable	publish	Services

1. Most developing economies today are a hybrid between centrally \_\_\_\_\_ and free enterprise economic systems, popularly referred to as \_\_\_\_\_ economies. In practice, the role of government in the economy is inevitable in order to ensure 'meaningful' development in view of market failures. Development will only be meaningful if it accrues to all its citizens. The new growth theory also suggests that correct government \_\_\_\_\_ in the market can raise growth \_\_\_\_\_.
2. The primary \_\_\_\_\_ of the economy extracts or harvests products from the earth. Computer and related activities is now the most innovative sector of all the \_\_\_\_\_ sectors.
3. The Computer History Simulation Project is a loose Internet-based collective of people interested in restoring historically significant computer \_\_\_\_\_ and software systems by \_\_\_\_\_. The goal of the project is to create highly \_\_\_\_\_ system simulators and to \_\_\_\_\_ them as freeware on the Internet, with freely \_\_\_\_\_ copies of significant or representative \_\_\_\_\_.

Score: \_\_/12

**Total score: \_\_/40**



A. Complete the table with words of the same family

Verb	Noun-agent	Noun	Adj
accumulate			
compensate	Ø		
contract ≠ expand			
diversify			
employ		equity	
extend		function	
(de) stabilize			
store			

B. Derivatives: fill in the blanks with the correct word form

- Economy is a measure of materials and energy accumulation and \_\_\_\_\_. The most \_\_\_\_\_ systems are those which build economy to increase \_\_\_\_\_ of organization for cooperative, \_\_\_\_\_ system \_\_\_\_\_. (store, function, diverse, equity, interact)
- In many states, \_\_\_\_\_ in automotive and automotive parts manufacturing ranks among the top three manufacturing industries. The purpose of this report is to estimate the \_\_\_\_\_ impact—in terms of jobs, \_\_\_\_\_ and tax revenues—of a major \_\_\_\_\_ involving one or more of the Detroit Three automakers. (employ, economy, compensate, contract)
- The assessor should consider the frequency and \_\_\_\_\_ of maintenance to the property. \_\_\_\_\_ maintenance or reconditioning of the property may \_\_\_\_\_ the economic life of the property just as a lack of \_\_\_\_\_ may shorten the economic life. (extendx3, maintain)
- So economic policy changes occur as the ideas of economists change and as those ideas become more widely diffused. By the late 1970s, many \_\_\_\_\_ had abandoned their old Keynesian views as a result both of experience — especially the poor \_\_\_\_\_ performance of the late 1960s and the 1970s — and of new economic analysis and research. The result has been a return to the traditional pre-Keynesian supply side policies that emphasize incentives, capital \_\_\_\_\_, and price \_\_\_\_\_. (economyx2, accumulate, stabilize)

**C. Gap-filling: Fill in the sentences with words from the box**

Score:    /17

adaptation	conduct	resources
concept	frameworks	socio-economic
cross-section	priorities	transactions

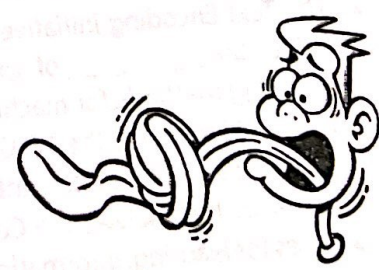
- Contract theory examines economic \_\_\_\_\_ under asymmetric information. It studies how economic agents design and \_\_\_\_\_ contractual arrangements when one of the parties can use his or her private information opportunistically. The \_\_\_\_\_ of contract has become essential to economics in the last 30 years. Three main theoretical \_\_\_\_\_ arose: "incentive theory", "incomplete-contract theory" and "transaction-costs theory."
- A \_\_\_\_\_ of natural and social scientists were invited to participate in the presentations and discussions, to examine the fit between the \_\_\_\_\_ methods that are currently available and those that are needed by natural scientists, and to identify \_\_\_\_\_ for the further development and \_\_\_\_\_ of social science research for natural \_\_\_\_\_ management.

contracting	perspectives	raised
human-made	process	sections
havoc	specifically	variables
dramatically	observable	unemployment
distinctive	fluctuations	

- Viruses, worms and Trojan horses are \_\_\_\_\_ software programs created \_\_\_\_\_ to wreak \_\_\_\_\_ on personal computers and networks. The chance of \_\_\_\_\_ one of these computer viruses over the Internet has increased \_\_\_\_\_.
- Business cycle theory tries to explain the \_\_\_\_\_ fluctuations in major economic variables such as national product, \_\_\_\_\_ rate or inflation rate. Its aim is to model the dynamics of oscillations through a model economy. However, it is not an easy \_\_\_\_\_ to capture the common patterns of the real life \_\_\_\_\_ by just observing the empirical \_\_\_\_\_.
- A \_\_\_\_\_ feature of the book is the inclusion of discussion chapters at the end of each of its three main \_\_\_\_\_. These chapters highlight the connections among issues \_\_\_\_\_ in different chapters and sections, and offer additional \_\_\_\_\_.

Score:    /23

**Total score:    /40**



**A. Complete the tables with words of the same family**

Verb	Noun-agent	Noun	Adj
apply	∅		
compete			
consume			
establish			
lead			
publish			
produce			
relate			
represent			
vary	∅		

Find the nouns

Verbs	Nouns
collect	
deliver	
grow	
preserve	

**B. Derivatives: fill in the blanks with the correct word form**

- The Institute of Computer Science has had a \_\_\_\_\_ long history and recognised tradition, since its \_\_\_\_\_ in 1983, in conducting basic and \_\_\_\_\_ research, developing applications and \_\_\_\_\_, providing services, and playing a \_\_\_\_\_ role in Greece and \_\_\_\_\_, in the field of Information and Communication Technologies. (relate, establish, apply, produce, lead, nation)
- The Text Encoding Initiative (TEI) is a consortium which \_\_\_\_\_ develops and maintains a standard for the \_\_\_\_\_ of texts in digital form. Its chief \_\_\_\_\_ is a set of Guidelines which specify encoding methods for machine-readable texts, \_\_\_\_\_ in the humanities, social sciences and linguistics. Since 1994, the TEI Guidelines have been widely used by libraries, museums, \_\_\_\_\_, and individual scholars to present texts for online research, teaching, and \_\_\_\_\_. In addition to the Guidelines themselves, the Consortium provides a \_\_\_\_\_ of supporting resources, including \_\_\_\_\_ sources for learning, information on projects, \_\_\_\_\_, and software developed for or adapted to t

TEI. (collect, represent, deliver, chief, publish, preserve, vary, publish)  
 3. Today's society meets the drastic demand for Technology Transfer. Due to \_\_\_\_\_ of produc-  
 tion complexity and \_\_\_\_\_, sophistication of \_\_\_\_\_ technologies, increase of international  
 \_\_\_\_\_ for successful \_\_\_\_\_, it becomes crucial the \_\_\_\_\_ interchange of advance tech-  
 nologies between owners and consumers, between different \_\_\_\_\_ groups, as well as feedback,  
 indicating the demand for further research. (grow, vary, manufacture, cooperate, compete, act, con-  
 sume)

Score: \_\_/21

**C. Gap-filling: Choose words from the box to complete the sentences below**

component	followed	preceded	stage
concept	issue	publish	submissions
distinguished	peer-reviewed	quality	stage

1. This open access, \_\_\_\_\_ journal, promotes all aspects of computer science research in the Hellenic Open University. International quality \_\_\_\_\_ are accepted either in English or in Greek. It is our intention to \_\_\_\_\_ at least one \_\_\_\_\_ per year with five articles or more. This is of course based on the \_\_\_\_\_ and number of submissions.
2. Primary education is the first \_\_\_\_\_ of compulsory education. It is \_\_\_\_\_ by pre-school or nursery education and is \_\_\_\_\_ by secondary education. In North America this \_\_\_\_\_ of education is usually known as elementary education.
3. The concept of Primary Health Care has to be \_\_\_\_\_ from the \_\_\_\_\_ of a Primary Health Centre in India. The ideas behind setting up Primary Health Centres can be considered as a \_\_\_\_\_ of the concept of Primary Health Care.

agreed	accordance	exercising	purchasing
accepted	contract	issued	right
according	constitutes	purchased	code

4. A purchase order (PO) is a commercial document \_\_\_\_\_ by a buyer to a seller, indicating types, quantities, and \_\_\_\_\_ prices for products or services the seller will provide to the buyer. Sending a PO to a supplier \_\_\_\_\_ a legal offer to buy products or services. Acceptance of a PO by a seller usually forms a once-off \_\_\_\_\_ between the buyer and seller, so no contract exists until the PO is \_\_\_\_\_.
5. Purchasing the right to use our products is different from \_\_\_\_\_ a product at a store. We do not ship any boxes or CDs. Instead, what you purchase is the \_\_\_\_\_ to use one or more products \_\_\_\_\_ to their license terms. To facilitate your \_\_\_\_\_ of this right, we send you an electronic token, called an activation \_\_\_\_\_, which allows you to use our software in \_\_\_\_\_ with the rights you \_\_\_\_\_.

Score: \_\_/24

Total score: \_\_/45

**A. Complete the tables with words of the same family**

Verb	Noun-agent	Noun	Adj
act			
∅		city,	
complicate	∅		
exclude	∅		
∅		expertise	
include	∅		
protect			
publish			
respond			
reason			
succeed in			
succeed sb to a position			

Verbs	Nouns
attract	
govern	
maintain	
perceive	
restrain	

**B. Derivatives: fill in the blanks with the correct word form**

- The reason for improving software application performance is to make an application seem more \_\_\_\_\_ to the user. But sometimes there is only so much you can do to improve the \_\_\_\_\_ performance of your code. In situations like that, improving the \_\_\_\_\_ responsiveness of your application can satisfy the user just as if you had made the actual \_\_\_\_\_. (respond, act, perceive, improve)
- Positive liberty refers to having the power and resources to act to fulfill one's own potential, as opposed to negative liberty, which refers to freedom from \_\_\_\_\_. Inherent to positive liberty is the idea that liberty is the ability of \_\_\_\_\_ to participate in their \_\_\_\_\_. (restrain, city, govern)

3. Security is the degree of protection against danger, \_\_\_\_\_, and criminals. Individuals or actions that encroach upon the condition of \_\_\_\_\_ are responsible for a "breach of security." A condition that results from the establishment and \_\_\_\_\_ of \_\_\_\_\_ measures that ensure a state of inviolability from hostile acts or influences. (lose, protect, maintain, protect)

4. Select Magazine is a digest size \_\_\_\_\_ mailed every month in \_\_\_\_\_ territories. Our proprietary business model is based on our twelve plus years of highly \_\_\_\_\_ customer service and business owner \_\_\_\_\_, state-of-the-art graphics and design work, and forward thinking IT systems. Our franchise opportunity is an all \_\_\_\_\_ model that also includes full training with direct marketing and business development \_\_\_\_\_. We offer sales and marketing programs and cooperative day to day operational support. As a turnkey, home-based business, a Select Magazine franchise can be started with a reasonable, low initial \_\_\_\_\_ and provide a very \_\_\_\_\_ earning potential that you can ramp up quickly and without \_\_\_\_\_. (publish, exclude, succeed, relate, include, expertise, invest, attract, complicate)

Score: \_\_\_/20

**C. Tenses: decide on the correct verb form**

1. Some parents try to define some punishments to be consequences. For example, a house rule might be that homework must \_\_\_\_\_ before \_\_\_\_\_ TV. Thus the consequence of not doing homework might mean the child \_\_\_\_\_ to watch TV. This quickly becomes punishment if other privileges \_\_\_\_\_ away or if the child is given time outs or put on restriction. In order to stay within the logical consequence model, a clear relationship must \_\_\_\_\_ between the behavior and the consequences of the behavior. Using logical consequences rather than punishment is a gradual process. Not all children may learn to look before they leap. (do, watch, not get, also take, establish)

2. In fact, some children may \_\_\_\_\_ by negative attention to continue \_\_\_\_\_ badly. If each time the child \_\_\_\_\_ a nice little chat with the teacher or parent, then this may actually \_\_\_\_\_ behavior, because the chat is a consequence. Some logical consequences are clearly very dangerous, such as \_\_\_\_\_ a child to get too close to an oven, so he or she will learn it is hot. (motivate, behave, get, reinforce, allow)

3. The reason for improving application performance is to make an application seem more responsive to the user. But sometimes there is only so much you can do to improve the actual performance of your code. In situations like that, improving the perceived responsiveness of your application can \_\_\_\_\_ the user just as if you \_\_\_\_\_ the actual improvements. (satisfy, make)

4. The record \_\_\_\_\_ of your survey responses does not contain any \_\_\_\_\_ information about you unless a specific question in the survey has asked for this. If you \_\_\_\_\_ to a survey that used an identifying token to allow you to access the survey, you can rest \_\_\_\_\_ that the identifying token \_\_\_\_\_ with your responses. It \_\_\_\_\_ in a separate database, and will only \_\_\_\_\_ to indicate that you \_\_\_\_\_ this survey. There is no way of matching identification tokens with survey responses in this survey. (keep, identify, respond, assure, not keep, manage, update, complete)

Score: \_\_\_/20

Total score: \_\_\_/40



**A. Gap-filling: Choose words from the box to complete the paragraphs below.**

affecting	cohesiveness	goal	rather
accessible	consensus	interacting	seek
conditions	governance	issues	throughout

- In biological terms, a community is a group of \_\_\_\_\_ organisms sharing an environment. In human communities, intent, belief, resources, preferences, needs, risks, and a number of other \_\_\_\_\_ may be present and common, \_\_\_\_\_ the identity of the participants and their degree of \_\_\_\_\_.
- Community organizing is sometimes focused on more than just resolving specific \_\_\_\_\_ . Organizing often means building a widely \_\_\_\_\_ power structure, often with the end \_\_\_\_\_ . Organizing also means \_\_\_\_\_ distributing power equally \_\_\_\_\_ the community. Community organizers generally \_\_\_\_\_ to build groups that are open and democratic in \_\_\_\_\_. Such groups generally \_\_\_\_\_ decision-making with a focus on the general health of the community \_\_\_\_\_ than a specific interest group. The three basic types of community organizing are grassroots organizing, coalition building, and institution-based community organizing.

components	evidence	forecasts	shareholders
conduct	Integrity	measures	stakeholders
ensure	Index	put	trust

- Just as the Soul of Dell articulates our values and beliefs, the following Code of Conduct provides guidance to \_\_\_\_\_ we meet our higher standard and \_\_\_\_\_ business the Dell Way - the right way which is "Winning with \_\_\_\_\_." Simply \_\_\_\_\_, we want all members of our team, along with our \_\_\_\_\_, customers, suppliers and other \_\_\_\_\_, to understand that they can believe what we say and \_\_\_\_\_ what we do.
- We present new \_\_\_\_\_ that existing, but long-ignored, \_\_\_\_\_ of consumer sentiment can reduce errors in forecasting total consumption expenditures and its \_\_\_\_\_. The component questions of the aggregate \_\_\_\_\_ of Consumer Sentiment (ICS) improve \_\_\_\_\_, not only of consumer expenditures on durables but also on nondurables and services.

claim	commerce	factors	progressive
conflict	expressed	innovation	term
conservative	explosion	global	usage

- Cultural invention has come to mean any \_\_\_\_\_ that is new and found to be useful to a group of people and \_\_\_\_\_ in their behavior but which does not exist as a physical object. Humanity is currently in an "accelerating culture change period", driven by the expansion of international \_\_\_\_\_, the mass media, and above all, the human population \_\_\_\_\_, among other \_\_\_\_\_.
- The culture war (or culture wars) in American \_\_\_\_\_ is a metaphor used to \_\_\_\_\_ that political

conflict is based on sets of conflicting cultural values. The \_\_\_\_\_ frequently implies a \_\_\_\_\_ between those values considered traditional or \_\_\_\_\_ and those considered \_\_\_\_\_ or liberal. The "culture war" is sometimes traced to the 1960s and has taken various forms since then.

Score: \_\_\_/36

**B. Tenses: decide on the correct verb form.**

1. Although mechanical examples of computers \_\_\_\_\_ throughout history, the first resembling a modern computer \_\_\_\_\_ in the mid-20th century (1940–1945). The first electronic computers were the size of a large room, \_\_\_\_\_ as much power as several hundred modern personal computers. (exist, develop, consume)
2. The first use of the word "computer" \_\_\_\_\_ in 1613, referring to a person who \_\_\_\_\_ calculations, or computations, and the word continued to \_\_\_\_\_ in that sense until the middle of the 20th century. From the end of the 19th century onwards though, the word \_\_\_\_\_ to take on its more familiar meaning, \_\_\_\_\_ a machine that \_\_\_\_\_ computations. (record, carry out, use, begin, describe, carry out)
3. A two-week project \_\_\_\_\_ surveying the seas off the Mt. Athos peninsula in search of remains of a Persian armada, which sank there in about 492 B.C. during Darius' first attempt to invade Greece. According to Herodotus (VI: 44), nearly 300 ships \_\_\_\_\_ and over 20,000 men perished in a storm. The loss of the fleet so traumatized the Persians that Xerxes, had a canal \_\_\_\_\_ through the narrowest part of Mt. Athos near the modern town of Nea Rhoda to avoid the need to round the peninsula. (just complete, lose, cut)
4. The Institute of Computer Science \_\_\_\_\_ a relatively long history and recognised tradition, since its establishment in 1983, in \_\_\_\_\_ basic and applied research, developing applications and products, providing services, and \_\_\_\_\_ a leading role in Greece and internationally, in the fields of Information and Communication Technologies. (have, conduct, play)

Score: \_\_\_/15

**C. Specialized vocabulary: Choose words from the box to complete the paragraph.**

assurance	concerns	principles
behavior	estimating	procedures
budgeting	scheduling	procurement

Construction engineering \_\_\_\_\_ the planning and management of the construction of structures such as highways, bridges, airports, railroads, buildings, dams, and reservoirs. Construction of such projects requires knowledge of engineering and management \_\_\_\_\_ and business \_\_\_\_\_, economics, and human \_\_\_\_\_. Construction engineers engage in the design of temporary structures, quality \_\_\_\_\_ and quality control, building and site layout surveys, on site material testing, concrete mix design, cost \_\_\_\_\_, planning and \_\_\_\_\_, safety engineering, materials \_\_\_\_\_, and cost engineering and \_\_\_\_\_.

Score: \_\_\_/9

Total score: \_\_\_/60

**A. Gap-filling: Choose words from the box to complete the paragraphs below.**

activation	equivalent	judgements	viable
controversy	exchange	means	
consumer	framework	prospects	
challenge	individuals	share	

1. Distinction is a social force that places different values on different \_\_\_\_\_. The criteria for such \_\_\_\_\_ have always been a matter of \_\_\_\_\_ and subject to criticism. They are, furthermore, subject to constant change.
2. In the investment world, instead of storing the good produced or its money \_\_\_\_\_, the investor chooses to use that good either to create a durable \_\_\_\_\_ or producer good, or to lend the original saved good to another in \_\_\_\_\_ for either interest or a \_\_\_\_\_ of the profits.
3. Crete is an island with many developmental \_\_\_\_\_. Within the \_\_\_\_\_ of the new planning for the future of the island, the Region of Crete is called to face a big \_\_\_\_\_; the \_\_\_\_\_ of all forces of the local society and the exploitation of all the \_\_\_\_\_ provided to us, aiming at a balanced and \_\_\_\_\_ growth of the island.

Score: \_\_\_/13

authority	norms	produce	sanctions
attempts	occur	production	restrictions
analysed	otherwise	regulation	societal
employment	outcomes	than	regulations

4. Regulation refers to controlling human or \_\_\_\_\_ behaviour by rules or restrictions. Regulation can take many forms: legal \_\_\_\_\_ promulgated by a government \_\_\_\_\_, self-\_\_\_\_\_ social regulation (e.g. \_\_\_\_\_), co-regulation and market regulation. One can consider regulation as actions of conduct imposing \_\_\_\_\_ (such as a fine). Regulation mandated by a state attempts to \_\_\_\_\_ outcomes which might not otherwise \_\_\_\_\_, produce or prevent \_\_\_\_\_ in different places to what might \_\_\_\_\_ occur, or produce or prevent outcomes in different time-scales \_\_\_\_\_ would otherwise occur. Common examples of regulation include \_\_\_\_\_ to control market entries, prices, wages, pollution effects, \_\_\_\_\_ for certain people in certain industries, standards of \_\_\_\_\_ for certain goods, the military forces and services. The economics of imposing or removing \_\_\_\_\_ relating to markets is \_\_\_\_\_ in regulatory economics.

Score: \_\_\_/16

adjust	contrasted	key	running
account	duty	legal	undertake
concepts	economic	Natural	value
conserve	goal	profits	

5. As resources are very useful, we attach some information value to them. Resources help to produce goods so they have \_\_\_\_\_ value. \_\_\_\_\_ resources like forests, mountains etc. are considered beautiful so they have aesthetic \_\_\_\_\_. Gifts of nature such as water also have a \_\_\_\_\_ value because it is our right to enjoy them. On the other hand, resources have an ethical value as well because it is our moral \_\_\_\_\_ to protect and \_\_\_\_\_ them for the future generations.
6. Security has to be compared and \_\_\_\_\_ with other related \_\_\_\_\_. Safety, continuity, reliability. The \_\_\_\_\_ difference between security and reliability is that security must take into \_\_\_\_\_ the actions of people attempting to cause destruction.
7. Strategy is relevant to many areas of life, from getting the right date for the school disco to \_\_\_\_\_ a business. For example, the \_\_\_\_\_ of a company may be to increase \_\_\_\_\_. The strategy chosen might be to \_\_\_\_\_ an advertising campaign; invest in a new computer system; or \_\_\_\_\_ pricing.

Score: \_\_\_/15

allegedly	connection	employees	sought	denied
agreed	charges	handover	suspected	resident
bribes	dispute	marked	brought	

8. The head of the forest ranger's office in Markopoulo, eastern Attica, today faces a prosecutor on \_\_\_\_\_ of accepting bribes after \_\_\_\_\_ seeking 5,000 euros from a local \_\_\_\_\_ as payment to secure a favorable verdict in a property \_\_\_\_\_. The unnamed official allegedly \_\_\_\_\_ the fee when the woman visited his office to discuss charges being \_\_\_\_\_ against her husband regarding the exploitation of forestland near the couple's home in Porto Rafti. The woman \_\_\_\_\_ to make the payment but tipped off police, who gave her \_\_\_\_\_ bills and arrested the official after the \_\_\_\_\_. The official showed police the sum of 5,000 euros but \_\_\_\_\_ the charges. He is \_\_\_\_\_ of involvement in other cases of accepting \_\_\_\_\_, according to police, who said they were investigating other \_\_\_\_\_ of the forest protection service in \_\_\_\_\_ with similar charges.

Score: \_\_\_/14

**B. Complete the paragraph using the correct article: a(n), the, Ø**

The theory of justification is \_\_\_\_\_ part of epistemology that attempts to understand \_\_\_\_\_ justification of \_\_\_\_\_ propositions and \_\_\_\_\_ beliefs. \_\_\_\_\_ Epistemologists are concerned with \_\_\_\_\_ various epistemic features \_\_\_\_\_ belief, which include \_\_\_\_\_ ideas of justification, warrant, rationality, and probability. Of these four \_\_\_\_\_ term that has been most widely used and discussed in \_\_\_\_\_ past twenty years is "justification". Looking speaking, \_\_\_\_\_ justification is \_\_\_\_\_ reason why someone (properly) holds \_\_\_\_\_ belief, \_\_\_\_\_ explanation: why \_\_\_\_\_ belief is \_\_\_\_\_ true one, or \_\_\_\_\_ account of how one knows what one knows.

Score: \_\_\_\_\_

Total score: \_\_\_/75

**A. Derivatives: fill in the blanks with the correct word form.**

Economics starts with the observation of widespread \_\_\_\_\_ and the consequent need for \_\_\_\_\_ about resource \_\_\_\_\_. Common criteria for such choices are economy, effectiveness, \_\_\_\_\_ and equity. This paper defines these criteria and locates them within a \_\_\_\_\_ framework (the 'production of welfare'). It also examines some of the reasons for the growing interest in them. The main modes of evaluation—cost-benefit, cost-\_\_\_\_\_, cost-utility and cost-consequences analyses—are described and illustrated. Few such \_\_\_\_\_ have been conducted in child care, and the paper ends with \_\_\_\_\_ as to why this is so. (scarce, choose, allocate, efficient, concept, effective, evaluate, speculate)

Score: \_\_\_/8

**B. Complete the paragraph using the correct article: a(n), the, Ø**

This Special Issue of Computer Science Education is comprised of \_\_\_ six invited papers reporting research originating from \_\_\_ work previously presented at \_\_\_ Koli Calling 2005 Conference on Computer Science Education, held in November 2005 in Koli, Finland. \_\_\_ selected conference papers were completely rewritten and re-reviewed for \_\_\_ Special Issue, and they include \_\_\_ new material such as \_\_\_ new data, \_\_\_ novel results, as well as \_\_\_ elaborated analysis and \_\_\_ discussion. Some papers include supplementary material, which can be found at \_\_\_ Koli Calling website at <http://cs.joensuu.fi/kolistelut>.

\_\_\_ Koli Calling 2005 was organized by \_\_\_ Turku Centre for Computer Science (TUCS) and \_\_\_ University of Turku, Finland. \_\_\_ conference was \_\_\_ fifth in \_\_\_ series of events, first held in 2001 as \_\_\_ meeting for \_\_\_ university scholars sharing \_\_\_ interest in computer science education and computer science education research. \_\_\_ conference is open to \_\_\_ international computing education research community. \_\_\_ goal of \_\_\_ Koli Calling conference series is to promote \_\_\_ exchange of relevant scientific information and \_\_\_ dissemination of \_\_\_ best practices between \_\_\_ colleagues working on \_\_\_ same discipline, to combine practical teaching and \_\_\_ learning experiences with \_\_\_ solid research orientation, and to encourage evidence-based educational methodology and technology development, building upon \_\_\_ open-minded dialogue between \_\_\_ computing and educational disciplines.

\_\_\_ authors of \_\_\_ invited papers have been able to incorporate into their current submissions \_\_\_ original comments and suggestions by \_\_\_ Koli Calling Program Committee, \_\_\_ constructive feedback received during \_\_\_ conference and, finally, \_\_\_ comments by \_\_\_ Special Issue reviewers. I would like to thank all \_\_\_ reviewers for their valuable contribution and \_\_\_ Editors of Computer Science Education for providing \_\_\_ opportunity for publishing this compilation. I hope that you will enjoy reading \_\_\_ articles and find them inspiring for your work towards our common goal, improving computer science education.

Score: \_\_\_/45

**C. Match the words with their definitions:**

**Proportion, Compensation, Alternative, corporation, framework**

- \_\_\_\_\_ are objects or actions, where the choice of one excludes choosing the other.
- \_\_\_\_\_ : the methods and practices of maintaining balance between interests of operating the company within the fiscal budget and attracting, developing, retaining, and rewarding high quality staff through wages and salaries which are competitive with the prevailing rates for similar employment in the labor markets.
- A \_\_\_\_\_ is a legal entity separate from the persons that form it. In American and, increasingly, international usage, the term denotes a body corporate formed to conduct business (the limited company in British usage).
- A \_\_\_\_\_ is a basic conceptual structure used to solve or address complex issues. This very broad definition has allowed the term to be used as a buzzword, especially in a software context.
- \_\_\_\_\_ is the relation between elements and a whole. Proportion is a correspondence among the measures of the members of an entire work, and of the whole to a certain part selected as standard.

Score:   /5

**D. Specialized vocabulary: Put the words in the appropriate place.**

- A partnership is a type of business \_\_\_\_\_ in which \_\_\_\_\_ (owners) share with each other the profits or \_\_\_\_\_ of the business \_\_\_\_\_ in which all have invested. Partnerships are often favored over corporations for taxation purposes, as the \_\_\_\_\_ structure does not generally incur a tax on profits before it is distributed to the partners (i.e. there is no \_\_\_\_\_ levied). However, depending on the partnership structure and the \_\_\_\_\_ in which it operates, owners of a partnership may be exposed to greater personal \_\_\_\_\_ than they would as shareholders of a \_\_\_\_\_.  
(corporation, dividend tax, entity, jurisdiction, liability, losses, partners, partnership, undertaking)
- A new report published by the World Bank and the FAO \_\_\_\_\_ 'The sunken billions - the economic justification for fisheries reform' concludes that marine-capture fisheries \_\_\_\_\_ an under-performing global \_\_\_\_\_. It highlights that the difference between the potential and actual net economic \_\_\_\_\_ from marine fisheries is of the order of \$50 billion per year. The \_\_\_\_\_ economic loss to the global economy over the last three decades is \_\_\_\_\_ to be of the order of two trillion dollars. The study argues that improved \_\_\_\_\_ can recapture a \_\_\_\_\_ proportion of the \$50 billion annual economic loss. (asset, benefits, cumulative, comprise, entitled, estimated, governance, substantial)
- PARIS, Oct 14 (Reuters) - The French economy contracted 0.1 percent in the third quarter of the year, the Bank of France said on Tuesday, cutting its earlier \_\_\_\_\_ and providing a grim assessment of the business \_\_\_\_\_. The central bank had originally forecast gross \_\_\_\_\_ product growth of 0.1 percent in the third quarter so the report implies it now believes the economy has entered \_\_\_\_\_. The economy shrank 0.3 percent in the second quarter and a recession is usually defined as two quarters of negative \_\_\_\_\_. (climate, domestic, growth, forecast, recession)

Score:   /22

**Total score:   /80**

**A. Put the adjectives in the appropriate place.**

How is the economic status of the elderly changing and what are their prospects for the future? My portrait tells us how well off they are on average, but also about the \_\_\_\_\_ disparities that exist among them. This description includes an often \_\_\_\_\_ measure of their \_\_\_\_\_ well-being--the amount of wealth they control. (economic, neglected, vast)

Amazingly little is known about how much \_\_\_\_\_ wealth older people have and how and what determines its distribution. But the \_\_\_\_\_ definition of household wealth ignores two \_\_\_\_\_ components of wealth: the \_\_\_\_\_ income flows from pensions and \_\_\_\_\_ Security. (conventional, critical, expected, personal, social)

For some \_\_\_\_\_ households, Social Security represents the largest part of their wealth. I conclude with some thoughts on one of the most \_\_\_\_\_ and critical public policy issues--the necessity of reforming Social Security. (elderly, sensitive)

Score: \_\_\_/9

**B. Complete the paragraph using the correct article: a(n), the, Ø.**

A convention, in \_\_\_ sense of \_\_\_ meeting, is \_\_\_ gathering of \_\_\_ individuals who meet at \_\_\_ arranged place and time in order to discuss or engage in some common interest. \_\_\_ most common conventions are based upon \_\_\_ industry, \_\_\_ profession, and fandom. Trade conventions typically focus on \_\_\_ particular industry or \_\_\_ industry segment, and feature \_\_\_ keynote speakers, \_\_\_ vendor displays, and \_\_\_ other information and activities of interest to event organizers and attendees. Professional conventions focus on issues of concern to \_\_\_ profession and \_\_\_ advancements in \_\_\_ profession. Such conventions are generally organized by \_\_\_ societies dedicated to promotion of \_\_\_ topic of interest. Fan conventions usually feature \_\_\_ displays, \_\_\_ shows, and \_\_\_ sales based on \_\_\_ pop culture, often with people dressed up as their favourite characters, and guest celebrities. Conventions also exist for various hobbies, such as gaming or model railroads.

Score: \_\_\_/22

**C. Tenses: decide on the correct verb form.**

The aim of the conference is to bring together philosophers, mathematicians, and logicians to penetrate current and historically important problems in the philosophy and foundations of mathematics. Swedish logicians and philosophers \_\_\_\_\_ important contributions to the foundations and philosophy of mathematics, at least since the end of the 1960s. In philosophy, one \_\_\_\_\_ with the opposition between constructivism and classical mathematics and the different ontological and epistemological views that \_\_\_\_\_ in this opposition. A central philosophical question \_\_\_\_\_ the nature of the abstract entities of mathematics: \_\_\_\_\_ independently of our epistemic acts (realism, or Platonism) or \_\_\_\_\_ by these acts (idealism)? Significant contributions \_\_\_\_\_ to the founda-

tions of mathematics, for example in proof theory, proof-theoretic semantics and constructive type theory. These contributions \_\_\_\_\_ a strong impact on areas of computer science, e.g. through Martin-Löf's type theory. (make, concern, reflect, concern, exist, somehow constitute, make, have)

Score: \_\_\_/8

**D. Gap-filling: Choose words from the box to complete the paragraphs below.**

attempt	coordinating	maintain
confronted	constructs	networked
contrasts	implications	subsequently

1. Coordination of inter-dependent work activities is central to all organizations. However, little is known about how people coordinate their work activities, especially when \_\_\_\_\_ with computer systems that are intended to support collaboration. This paper examines how a close-knit group of engineers \_\_\_\_\_ to collaborate when managing a \_\_\_\_\_ system whilst at the same time trying to \_\_\_\_\_ coordination of their interdependent work activities. Drawing from theoretical \_\_\_\_\_ developed in distributed cognition, an analysis is presented that \_\_\_\_\_ the role played by common objects and mediating mechanisms in \_\_\_\_\_ such activities with the negotiative practices that emerge when they break down. The \_\_\_\_\_ of the problematic and dynamic nature of coordination is \_\_\_\_\_ discussed in relation to CSCW design.

broaden	highly	knowledge	pursue
curriculum	immediately	opportunities	regions
densely	industrialized	positions	spatial

2. One of the stereotypes of Germany is that it is a \_\_\_\_\_ industrialized country. The image could not be more wrong. The \_\_\_\_\_ distribution of the economic core regions shows a very polarized structure, with only a handful of highly \_\_\_\_\_ areas. In fact, almost 85 % of Germany's land use is agriculture and forestry. Even within the core industrial \_\_\_\_\_, activities are \_\_\_\_\_ concentrated only within or \_\_\_\_\_ adjacent to larger cities.

3. This Diploma in Computer Information Systems program is ideal for students who want to improve and develop their computer information systems \_\_\_\_\_ and skills in order to \_\_\_\_\_ their current career \_\_\_\_\_ or pursue new careers. The program can also be helpful to students who want to \_\_\_\_\_ early entry into the job market, by preparing them for entry-level computer \_\_\_\_\_ courses. The diploma program requires students to take twelve computer information systems courses. Within this \_\_\_\_\_, students have the option of choosing one of four areas of emphasis.

Score: \_\_\_/21

Total score: \_\_\_/60





**A. Complete the paragraphs using the correct article: a(n), the, Ø**

1. It is natural that \_\_\_ inflation as well as \_\_\_ interest rate gets north bound in growth conditions. While \_\_\_ moderate increase in both of them are better than \_\_\_ deflation or \_\_\_ stagflation, we should be extra careful to ensure that they do not go beyond the limit warranted by \_\_\_ corresponding economic growth in \_\_\_ country. \_\_\_ regulatory authorities will have to ensure that there is \_\_\_ equilibrium between \_\_\_ two; there is \_\_\_ strong tendency of \_\_\_ present day economy to consider \_\_\_ market valuation as \_\_\_ benchmark of economic growth and success. While \_\_\_ market value is fairly independent and indicative of \_\_\_ success, it should be considered as only one of \_\_\_ indicators.
2. A minority is a sociological group that does not constitute \_\_\_ politically dominant voting majority of \_\_\_ total population of \_\_\_ given society. \_\_\_ sociological minority is not necessarily \_\_\_ numerical minority, it may include any group that is subnormal with respect to \_\_\_ dominant group in \_\_\_ terms of \_\_\_ social status, \_\_\_ education, \_\_\_ employment, wealth and political power. To avoid confusion, some writers prefer \_\_\_ terms "subordinate group" and "dominant group" rather than "minority" and "majority", respectively. In socioeconomics, \_\_\_ term "minority" typically refers to \_\_\_ socially subordinated ethnic group (understood in terms of \_\_\_ language, \_\_\_ nationality, \_\_\_ religion and/or culture). Other minority groups include \_\_\_ people with disabilities, \_\_\_ "economic minorities" (working poor or unemployed), "age minorities" (who are younger or older than \_\_\_ typical working age) and \_\_\_ sexual minorities.
3. Dominant economic thinking is based on \_\_\_ assumption that \_\_\_ people everywhere in \_\_\_ world respond to \_\_\_ same profit maximization logic. In this age of ever increasing globalisation, it is no doubt correct to state that \_\_\_ profit maximization or \_\_\_ logic of capitalism is spreading all over \_\_\_ world. \_\_\_ universalistic assumptions of \_\_\_ dominant economic theory seem to be corroborated. Yet, \_\_\_ more careful scrutiny of \_\_\_ actual behaviour of \_\_\_ people at micro level seems to indicate that economy is not to be reduced to \_\_\_ capitalist logic. \_\_\_ narrow materialistic and individualistic market logic does not reign supreme. It is certainly present in \_\_\_ most societies if not, by now, in all of them. But that logic is mixed with other rationalities, expectations, interests, values, \_\_\_ codes and \_\_\_ patterns of behaviour. Religions, ethical norms, power relations and politics, traditional as well as neo-traditional modes of organization, local and specific approaches to \_\_\_ time, \_\_\_ space, \_\_\_ nature, land use, tools, to solidarity and to security, also play \_\_\_ role in peoples' daily behaviour towards \_\_\_ money, \_\_\_ profit, competition, market, saving, accumulation and redistribution.

Score: \_\_/41

**3. Specialized vocabulary: Choose words from the box to complete the sentences below.**

eligible	income	taxable	taxpayer
employees	integrated	shareholders	Responsibility
	gross	sustainable	

- Corporations exist as a product of corporate law, and their rules balance the interests of the \_\_\_\_\_ who contribute their labour. People work together in corporations to produce value and generate \_\_\_\_\_. Corporate Social \_\_\_\_\_ (CSR), also known as corporate responsibility, corporate citizenship, responsible business, \_\_\_\_\_ responsible business (SRB) and corporate social performance is a form of corporate self-regulation \_\_\_\_\_ into a business model.
- A tax deduction or a tax-deductible expense affects a taxpayer's income tax. A tax deduction represents an expense incurred by a \_\_\_\_\_. They are variable amounts that you can subtract, or deduct, from your \_\_\_\_\_ income. Itemized deduction is an \_\_\_\_\_ expense that individual taxpayers in the United States can report on their Federal income tax returns in order to decrease their \_\_\_\_\_ income.

Score: \_\_\_/15

addition	multiplication	range
division	number	subtraction
integer = ακέραιος αριθμός	properties	variable

- Complex numbers are a field, and thus have \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ operations. These operations extend the corresponding operations on real numbers, although with a number of additional elegant and useful \_\_\_\_\_, e.g., negative real numbers can be obtained by squaring complex (imaginary) numbers.  
The range of a variable is given as the difference between the highest and lowest value that that variable can hold. For example, the range of a signed 16-bit \_\_\_\_\_ variable is -32,768 to +32,767. In the case of an integer, the \_\_\_\_\_ definition is restricted to whole numbers only, and the range will cover every \_\_\_\_\_ within its \_\_\_\_\_.

Score: \_\_\_/9

Total score: \_\_\_/65



**A. Derivatives: fill in the blanks with the correct word form.**

- Immigration is a modern phenomenon. It owes its \_\_\_\_\_ to the needs of an ever more integrated global \_\_\_\_\_ economy to have people move around for the purpose of work, for \_\_\_\_\_ of labor power (studies, \_\_\_\_\_ higher and more \_\_\_\_\_ forms of knowledge) or political asylum across the borders of, some believe, an \_\_\_\_\_ obsolete inter-state system. (exist, intense, capital, reproduce, particular, specialize, increase)
- This paper addresses the issue of economic voting in \_\_\_\_\_ democracies using data from the Russian federal \_\_\_\_\_. It argues that the shock of inflation that followed the fundamental \_\_\_\_\_ reform has a lasting influence on voters. Specifically, it shows that in Russia, where \_\_\_\_\_ policy led to hyperinflation and the widespread \_\_\_\_\_ of personal savings, the magnitude of savings lost at that time continues to explain a \_\_\_\_\_ portion of the \_\_\_\_\_ in the regional support for the Communist party in \_\_\_\_\_ and presidential elections. (transition, elect, economy, inflation, lose, signify, vary, parliament)

Score: \_\_\_/15

**B. Complete the paragraphs using the correct article: a(n), the, Ø**

- Millions of people are in \_\_\_ danger of being excluded from \_\_\_ benefits of \_\_\_ digital information and communications technologies, according to \_\_\_ research released by \_\_\_ Inclusive Digital Economy Network. \_\_\_ research, released at \_\_\_ Network's conference at City University London, focuses on research challenges for including \_\_\_ older and disabled people within \_\_\_ Digital Economy (DE) and identified \_\_\_ accessibility, affordability, usability and \_\_\_ socio-technical environment as the key issues that influence digital inclusion.
- Technology is \_\_\_ broad concept that deals with \_\_\_ animal species' usage and \_\_\_ knowledge of tools and crafts, and how it affects an animal species' ability to control and adapt to its environment. However, \_\_\_ strict definition is elusive; "technology" can refer to material objects of use to \_\_\_ humanity, such as machines, hardware or utensils, but can also encompass broader themes, including \_\_\_ systems, methods of organization, and techniques. \_\_\_ term can either be applied generally or to specific areas: examples include "construction technology", "medical technology", or "state-of-the-art technology".
- The human race's use of technology began with the conversion of natural resources into \_\_\_ simple tools. \_\_\_ prehistorical discovery of \_\_\_ ability to control fire increased \_\_\_ available sources of food and \_\_\_ invention of the wheel helped \_\_\_ humans in travelling in and controlling their environment. \_\_\_ recent technological developments, including \_\_\_ printing press, \_\_\_ telephone, and \_\_\_ Internet, have lessened \_\_\_ physical barriers to communication and allowed humans to interact freely on \_\_\_ global scale. However, not all technology has been used for peaceful purposes; \_\_\_ development of weapons of ever-increasing destructive power has progressed throughout history, from clubs to nuclear weapons.

Score: \_\_\_/32

**C. Specialized vocabulary: Choose words from the box to complete the paragraphs.**

capital	consistent	row
keys	ensuring	operation
keyboard	characters	retrieval

1. Data integrity is a term used in computer science and telecommunications that can mean \_\_\_\_\_ data is "whole" or complete, the condition in which data is identically maintained during any \_\_\_\_\_ (such as transfer, storage or \_\_\_\_\_), the preservation of data for their intended use, or, relative to specified operations, the a priori expectation of data quality. Put simply, data integrity is the assurance that data is \_\_\_\_\_ and correct.
2. The shift key is a modifier key on a \_\_\_\_\_, used to type \_\_\_\_\_ letters and other alternate "upper" \_\_\_\_\_. There are typically two shift \_\_\_\_\_, on the left and right sides of the \_\_\_\_\_.

aspects	index	research
disciplines	journal	type
domains	Organization	publication

3. This journal provides a common forum for the many \_\_\_\_\_ interested in constraint programming and constraint satisfaction and optimization, and the many application \_\_\_\_\_ in which constraint technology is employed. It covers all \_\_\_\_\_ of computing with constraints, including: theory and practice, algorithms and systems, reasoning and programming, logics and languages.
4. In academic publishing, a scientific \_\_\_\_\_ is a periodical publication intended to further the progress of science, usually by reporting new \_\_\_\_\_. There are thousands of scientific journals in \_\_\_\_\_, and many more have been published at various points in the past. The United Nations Educational, Scientific and Cultural \_\_\_\_\_ (UNESCO) monitors both the number and \_\_\_\_\_ of books published per country per year as an important \_\_\_\_\_ of standard of living and education, and of a country's self-awareness.

Score: \_\_\_/18

Total score: \_\_\_/65

The Word Doctor