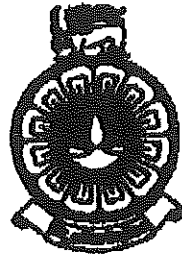


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The Open University of Sri Lanka
Department of physics
Bachelor of Science Degree Programme-2021/2022
Communication Skills –FNU3201 -Level 3
Final Examination

Date: 26-October-2022

Time: 9.30 a.m.-11.30 a.m.

Index No
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Instructions to Candidates

- (1) This paper consists of five (5) questions and the candidates are asked to write answers to all the questions.
- (2) Your hand writing must be legible.
- (3) Must write your index number in the box provided.
- (4) Write answers in the paper itself.

Question No	Marks
(1)	
(2)	
(3)	
(4)	
(5)	
Total	

(1) Read the paragraph carefully and fill in the blanks using the words given below in the grid.

None of the (1) in the world have ever shown enough (2) to the (3) effects of the current global (4) crisis. The middle-scaled income countries of Eastern Europe, Latin America, and South East Asia, which previously had achieved significant progress in economically and socially have shown themselves to be highly (5) for the crisis. The crisis has highlighted important lessons for these countries, which inhabit a twilight zone between the developed and (6) worlds. All the countries in the world those that aspire to join their ranks as they are rebuilt with successful economic policies (7) in the past do not guarantee the immunity of these countries for the (8)

Many developed countries like USA and UK are likely to face the greatest financial crisis since the 1930s in the near future. The (9) in USA and in European countries have well understood the (10) of the crisis and they have introduced a trillion-dollar rescue package around the world, while the markets may (11) respond. Its magnitude will depend on how (12) monetary policy can be, with the recent interest rate cut a sure sign that the authorities are concerned more about the financial crisis than recent (13) pressures. There is less scope for expansionary fiscal policy in fact, these rescue measures have increased public debt.

This global economic crisis affects developing countries in two (14) ways. It can affect stock markets in (15) markets. The second channel is through changes in the real economy, either directly or indirectly. A developing country like Sri Lanka is more at risk than others because the country's most of exporting are directly to the crisis (16) countries. Zambia will (17) fewer copper export as the price and demand for copper decreases. The countries like Sri Lanka receives a fewer garments-based foreign revenue. Countries dependent on foreign direct investment, (18), and development funds to finance the current (19) deficit will also be at risk. Finally, countries dependent on aid face uncertain times and can only hope that developed countries continue to see the case for aid. The impact on developing countries will vary. It will depend on the (20) in developed countries to the financial crisis and the economic characteristics and policy responses in developing countries.

countries	response	possible	emerging	financial
devastating	receive	accommodating	remittances	magnitude
developing	economists	account	affected	inflationary
eventually	vulnerable	crisis	pursued	immunity

(2) Read the paragraph carefully and write answers to the questions given below in the space provided.

Best Solution for The Energy Crisis in Sri Lanka

Solar energy is one of the purest and cleanest forms of energy we receive on earth, without any environmental degradation. Thanks to the never-ending solar radiations we receive which is responsible for all the life processes taking place on earth. If we tap into this energy systematically, this can be the largest source of energy, and even a tenth of energy from solar rays on earth can solve the entire energy crisis in Sri Lanka. However, the potential of energy from solar rays is about 750GW. If this energy is utilized, we won't need any other source of energy in our country and excess energy can also be exported too. There are many ways converting solar energy to electricity, but most widely used ones are by using photo-voltaic cells which is also called as solar cells and concentrated solar power, where solar rays are focused and the concentrated power generates heat to run the solar plant.

Many countries in the world have focused their attention on using solar energy. One of the best advantages of solar energy, and the one that is primarily responsible for the rapid growth of solar installations in European countries like Germany, England and Sweden and USA over the past several years is that you can make money from the sun. As a result of feed In Tariff policies in place in much of Europe, you can build sell the electricity, and that income can last for 20 years or more. For each dollar you can reduce your electrical bill, your house can increase in value by up to \$20. Even if you don't build the solar yourself – in some markets solar companies might be willing to lease your roof or land to install their solar installation. In some cases, a joint venture arrangement is also a possibility

Solar energy has gained a lot of significance in recent decade, due to shortage of non-renewable sources of energy. As on 30 June 2015, the installed grid connected solar power capacity is 4,060.65 MW, and India expects to install an additional 10,000 MW by 2017 and a total of 100,000 MW by 2022. India being the first country in the world to setup the ministry of non-conventional energy resources, Gujarat has been a leader in solar power generation and contributes 2/3rd of the 900 MW of photovoltaic in the country. There have been a few initiatives from the government, such as the Indian Solar Loan Programme, which has focused on financing solar home power systems, to increase the use of solar energy for domestic use. It may also include lighting, irrigation or water heaters. Notably, Bangalore city has the largest deployment of solar water heaters in India. Solar industry has Investment 2015 also highlights a record \$119 billion in new investment. Gujarat and Rajasthan alone account to more than 88% of total solar energy produced in India.

Solar energy powers the environment and life on the planet so there's no energy source more earth-friendly. Compared to the burning of fossil fuels, which release greenhouse gases, carcinogens and carbon dioxide, solar cells do not release anything harmful into the air as they convert the sun's energy into electricity. If you want clean air – one of the important advantages of solar energy is that it will help, get us there. Solar photovoltaic panel is still relatively expensive, it will pay for itself over time from the sale of electricity or from saving you money by reducing the amount of electricity you'll have to buy. The time

it takes you to recover your net investment is known as the payback period. Generally, the payback period for solar installations is getting shorter and shorter. Solar hot water panels have been greatly improved in recent years and, with lower cost, payback times for domestic systems cannot be as short as five years. In some geographical areas producing electricity from the sun already costs less per kilowatt hour of electricity produced than producing it from fossil fuels. As coal, gas, oil and nuclear energy fuel prices continue to raise solar energy will become even more cost effective. There is a startup cost, but then it starts paying for itself. Once you break even, everything after that is profit. Compare this to paying a monthly bill and getting no return on investment.

Sri Lanka is consuming over 100 million tons of oil every year for various uses. Out of this, almost 40% is being consumed in the industrial sector alone. Further, 40-50% of this consumption is in thermal form alone with temperature range below 250 c which comes to around 10 million tons of fuel oil per annum. The applications include mercerizing, drying and finishing in textile industry, cooking, drying and canning in food industry, craft pulping, bleaching and drying in pulp and paper industry, drying and cleaning in leather industry and various such applications in many more industries. The working fluid required for these applications is pressurized hot water, steam or hot air in temperature range of 60-250 C. There are number of solar energy technologies which can be used for such applications and reduce consumption of fuel oil mainly during day time. The technologies include solar water heating systems, steam generating systems and air heating systems based on flat plate or evacuated tube collectors and automatically tracked solar concentrating collectors. With all these facts one can suggest solar energy is the best solution for the Energy Crisis in Sri Lanka.

(1) Suggest another topic for the above paragraph.

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(2) Name the purest and cleanest form of energy in the Earth.

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(3) According to the paragraph, calculate how much of solar energy is received from the sun per day? (3600 seconds per hour)

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(4) Write the names of the countries in the paragraph which have focused their attention on solar energy?

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(5) Why has the solar energy gained a lot of significance in the recent decade?

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(6) What are the initiatives that the government of India has implemented in order to popularize solar energy in India?

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(7) According to the paragraph why does Sri Lanka consume hundred million tons of oil per year?

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(8) Write down five advantages of using solar energy?

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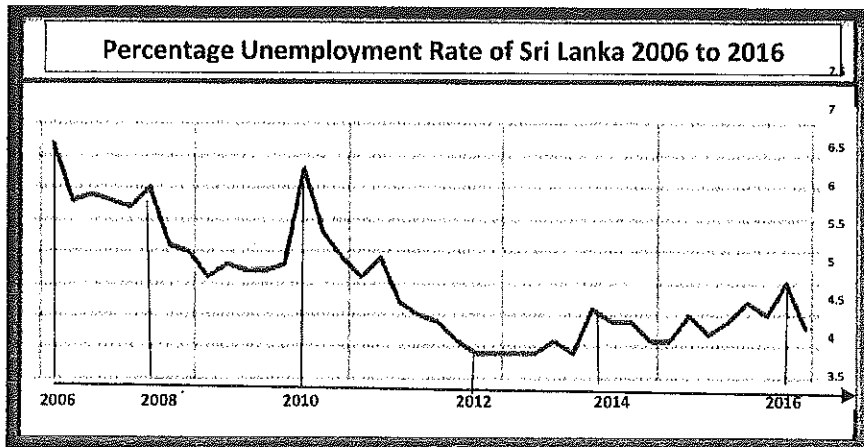
(9) Name the other means of producing energy in other countries.

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(10) Write down five initiatives that a government of Sri Lanka must implement to popularize solar energy in the country?

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(3) Go through the graph carefully which illustrates the percentage rate of Unemployment vs Year in Sri Lanka. Describe the graph (100 words)



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(4) Go through chunks carefully and write the topic and topic sentences

(a) Rain is water droplets that have condensed from atmospheric water vapor and then fall under gravity. Rain is a major component of the water cycle and is responsible for depositing most of the fresh water on the Earth. It provides water for hydroelectric power plants, crop irrigation, and suitable conditions for many types of ecosystems.

Topic

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Topic Sentence

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(b) Forests are the predominant terrestrial ecosystem of Earth, and are found around the globe. More than half of the world's forests are found in only five countries. The largest share of forests is in the tropical latitudes, followed by those in the boreal and temperate.

Topic

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Topic Sentence

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(c) Scientists researching magnetic confinement fusion aim to use stellarator devices as a vessel for nuclear fusion reactions. The name refers to the possibility of harnessing the power source of the stars, such as the Sun. It is one of the earliest fusion power devices, along with the z-pinch and magnetic mirror.

Topic

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Topic Sentence

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(d) Isotopes are two or more types of atoms that have the same atomic number and position in the periodic table and that differ in nucleon numbers due to different numbers of neutrons in their nuclei. While all isotopes of a given element have almost the same chemical properties, they have different atomic masses and physical properties

Topic

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Topic Sentence

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(5) Read the advertisement carefully and prepare a covering letter and resume for the above post.

SEEKING GRAPHIC DESIGN CANDIDATES

The ideal candidate will be a creative thinker, capable of conceiving and executing ideas into dynamic and functional design solutions. Projects range from social media content to print ads, product packaging, web page layouts, and more – all completed with speed and efficiency. Graphic Designers will work closely with the developer team and account managers, assisting them with projects from conception to completion. The resulting work should be creative, inspiring, on-time, and aligned with business goals and strategies.

The Graphic Designer must have excellent oral and written communication skills, the ability to respond professionally to feedback, and willing to ask questions to ensure clear understanding.

Job position: GRAPHIC DESIGNER 2 position

RESPONSIBILITIES:

- Collaboration on design projects including print advertisements, product collateral, packaging materials, trade show displays, and point-of-sale pieces
- Assist account team with effectively design online marketing pieces including e-mails, banner ads, and web pages
- Support other departments with various graphic and marketing requests
- Help ensure that all deadlines are met and that materials created are to the brand standard
- Self-motivated, able to work independently, and with the ability to work on multiple projects.

REQUIREMENTS:

- Recent graduated with bachelor's degree in visual design, marketing design, Interior design and/or graphic design
- Ability to manage multiple priorities, anticipate demands, communicate status appropriately, and maintain a high level of operational transparency and accountability
- Willingness to deliver creative concept presentations

BONUS:

- Experience with Adobe Creative Suite (Photoshop, Illustrator, InDesign) and other professional design tools
- Experience preparing and optimizing materials for print release and digital files for web (designing for HTML, CSS, and content management)

PAY AND BENEFITS:

- Pay level varies depending on education and experience levels.

TO APPLY:

- Send cover letter and resume to: sheaton@drivesit.com
- Please send portfolio PDF or link to online portfolio.

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Handwriting practice lines consisting of 28 horizontal dotted lines.

A series of horizontal dotted lines spanning the width of the page, intended for handwriting practice.

Lined writing area consisting of 30 horizontal dotted lines for text entry.

