## R-2022



# GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING

(Antonomous)

Madharawada, Visakhapatnam

Affiliated to Andhra University, Visaklapatnam.

B.Tech I-Semester Regular & Supplementary Examinations February 2024 Communicative English

[Common to CSE, CSE (AI & ML), CSE (Data Science) & IT, EEE, Mechanical Engineering & Mechanical (Robotics)]

Date: 19-02-2024

Time: 3 Hours

Max. Marks: 70

- 1. Answer ONE Question from each UNIT
- 2. All parts of a Question must be answered in one place to get valued.
- All questions carry equal marks.

#### UNIT 1

1 a) Read the following text and answer the True/False questions given below.

7 Marko

The integration of robotics in the medical field has revolutionized healthcare practices, offering a spectrum of applications that enhance precision, efficiency, and patient outcomes. One prominent use is in minimally invasive surgeries, where robotic systems assist surgeons with improved dexterity and precision, resulting in smaller incisions and faster recovery times for patients. Additionally, robotics plays a pivotal role in telemedicine, enabling remote surgeries and consultations, especially in challenging geographical locations.

Robotic prosthetics have become a beacon of hope for amputees, providing them with enhanced mobility and functionality. In diagnostics, robotic systems facilitate precise imaging and biopsies, aiding healthcare professionals in accurate disease detection. The automation of routine tasks, such as medication dispensing and patient monitoring, allows healthcare providers to focus on more complex aspects of patient care.

However, challenges persist, including the high costs associated with implementing robotic systems and the need for specialized training for medical professionals. Striking a balance between technological advancements and accessibility remains crucial for maximizing the benefits of robotics in the medical realm.

Identify whether each of the statements given is True or False based on the text above.

- Robotics in the medical field primarily focuses on maximizing incision sizes during surgeries.
- 2. Minimally invasive surgeries assisted by robotic systems contribute to faster patient recovery.
- 3. Telemedicine is not mentioned as an application of robotics in the medical field.
- 4. Robotic prosthetics have no impact on enhancing mobility for amputees.
- 5. Robotic systems are not involved in diagnostics or disease detection.
- Automation in medication dispensing is not considered an application of robotics in healthcare.
- The text implies that the integration of robotics in the medical field eliminates the need for specialized training for healthcare professionals.

j	brackets	7 1 4 1
	brackets.	I IVIZING
	Ensuring accessibility for the physically (1) (incapable, challenged, dependent) in public	
	transport is imperative for fostering inclusivity in our communities. Many cities are taking	
	(Cilifinate, Chaoise, chioice) partiers by implementing features liberty in	
	priority seating, and auditory announcements. These measures aim to create a more	

(3)	
a) Read the following text and answer the questions given.	7 Marks
In the hustle and bustle of modern life, art has emerged as a beacon of tranquillity and a powerful antidote to stress. Engaging with artistic activities, be it visual arts, music, or dance, has proven to have profound effects on mental well-being. Studies show that creating art triggers the release of dopamine, the brain's feel-good chemical, promoting a sense of pleasure and reward. Whether it's painting, sculpting, or playing a musical instrument, the act of artistic expression provides a therapeutic outlet for individuals to channel their emotions and reduce stress levels.	
Art therapy, a form of psychotherapy, utilizes creative processes to improve mental health. It has been particularly effective in aiding individuals dealing with trauma, anxiety, and depression. The non-verbal nature of art allows individuals to communicate and explore their emotions in a safe and expressive way.	
In our fast-paced lives, taking the time to engage with art, whether as creators or appreciators, can serve as a mindful pause. Whether it's visiting a gallery, listening to music, or participating in a dance class, the arts offer a sanctuary for individuals to recharge and find solace amidst life's challenges.	
<ol> <li>What does engaging in artistic activities trigger in the brain, according to the text?         <ul> <li>a) Stress hormones</li> <li>b) Negative emotions</li> <li>c) Release of cortisol</li> <li>d) Release of dopamine</li> </ul> </li> <li>How does art therapy contribute to improving mental health?         <ul> <li>a) By promoting stress</li> </ul> </li> </ol>	
b) By discouraging creativity	
c) By providing a non-verbal expressive outlet	
d) By providing linguistic expressions of creativity	
3. What is the primary focus of the text?	
a) The history of art	
b) Provide an opportunity for career growth	
c) The therapeutic benefits of engaging with art	
d) The negative effects of stress	
4. According to the text, what is the role of the arts in our fast-paced lives?	
a) Create more time but can be stressful	
b) Offering a chance to recharge	
c) Promote fast-paced living	
d) Encourage creativity at the cost of routine tasks	
5. Pick one word from the first paragraph of the above text that means "countermeasure".	
6. Provide an appropriate title for the text given.	
7. Summarize the main points of the given passage in one or two sentences.	

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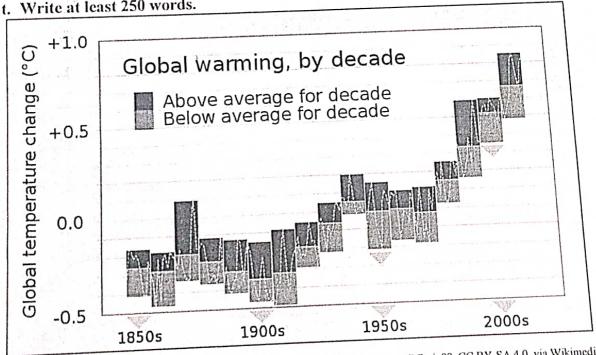
, Read the statement below and, based on the same, state whether each of statements given below is True or False.

In the realm of quantum computing, where probabilistic phenomena govern computational processes, researchers are unravelling the complexities of quantum entanglement to propel the development of robust and secure quantum communication protocols.

- 1. Quantum computing operates in a realm where probabilistic phenomena play a crucial role in computational processes.
- 2. Quantum computing primarily relies on deterministic phenomena for its computational processes.
- 3. Researchers are actively unravelling the complexities of quantum entanglement in the field of quantum computing.
- 4. The complexities of quantum entanglement have no relevance to the development of quantum communication protocols.
- 5. The goal is to propel the development of robust and secure quantum communication protocols through research efforts.
- 6. Quantum communication protocols are not a focus in the realm of quantum computing.
- 7. Quantum entanglement is a key aspect researchers are investigating to enhance quantum communication protocols.

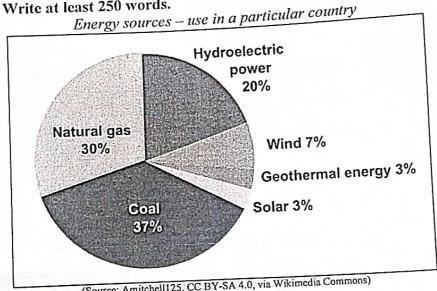
## UNIT-II

a) The bar graph below shows the data regarding Global Warming, by decade. Summarize the information by selecting and reporting the main features and make comparisons where relevant. Write at least 250 words.



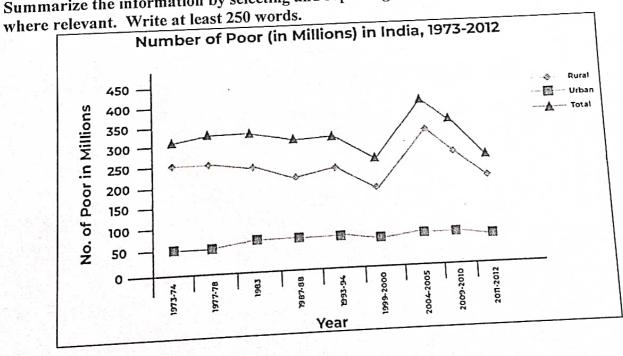
(Source: RCraig09, CC BY-SA 4.0, via Wikimedia Commons)

R-2022 The pie-chart below shows the data regarding energy sources – use in a particular country. Summarize the information by selecting and reporting the main features and make comparisons where relevant. Write at least 250 words.



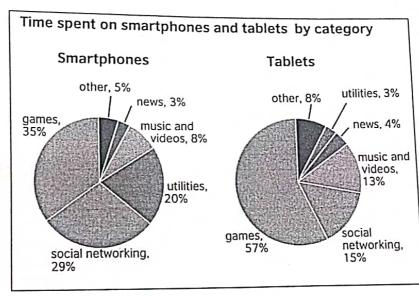
(Source: Amitchell125, CC BY-SA 4.0, via Wikimedia Commons)

The line graph below shows the data regarding the number of poor in India, 1973-2012. Summarize the information by selecting and reporting the main features and make comparisons



b. The pie-charts below show the data regarding the time spent on smart-phones and tablets by category. Summarize the information by selecting and reporting the main features and make comparisons where relevant. Write at least 250 words.

7 Mark:



### **UNIT-III**

5 a) Write a well-structured paragraph in about 200 words on Environmental Conservation using the hints given: (biodiversity-sustainable practices-renewable energy-plastic reduction-conservation initiatives-climate action)

7 Mark

b) Write a well-structured paragraph on the following topic Psychological Benefits of Team Sports or College Students in 200 words.

7 Mar

- 6/a) Rearrange the following sentences to create a coherent paragraph by mentioning the correct 7 Ma
- order using the letters "a-g" representing each sentence. (a) Despite its unassuming appearance, nestled within this tiny shell lies the potential for an entire
  - (b) Yet, within this seemingly inert object, a silent drama unfolds, governed by the intricate
  - (c) Sunlight and water weave their magic, coaxing the embryo from its slumber, its roots reaching
  - (d) Witnessing this transformation, one cannot help but be awestruck by the sheer force of life unleashed from such a humble origin.
  - (e) The journey begins with a gentle breeze, carrying the seed on its travels, a fragile traveller
  - (f) From a single point of green defiance, a stem shoots skyward, defying gravity and claiming its
  - (g) This seemingly mundane object, a mere speck in the vast canvas of nature, embodies the indomitable spirit of life's constant renewal.
- b) Write a well-structured paragraph in about 200 words on the following topic Positive impact of social media on interpersonal communication in today's society.

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			UNIT-IV						
disp lack and to ac Sym infor "bric sum conv	arities in accessing digital device professional grocess online edu bolically, the dimation and op liging the gap" narizing the cerey the essence of	s to information tes; it extends to bowth. Consider a cational resource gital divide can be portunities, the for "crossing the ntral ideas without the digital divide the digital divides.	below: orld, the digital divide and opportunities. This he ability to effectively student in a rural areas available to their urbate seen as a bridge controller obscured in dark divide" when crafting ut relying on overused de issue without resortioned.	is gap in your with ling an count necting to kness. If you are to come to count the count of the	s not med leverage mited into terparts. It wo shore However, is. Instead hors. A very monph	erely ab the technic ernet contact as — on avoid ad, striv well-cra	ology for onnectivity as illuminate illuminate control of the cont	personal y, unable ated with chés like ecision in is should	7Marks
b) Assu mem	me that you as bers. Write an o	re a team lead o	who needs to gather withem about the upcome email as Kiran, Proje	weekly	progress	update	s from y	our team highlight	7 Marks
<sup>8</sup> a) Writ	e a short essay	on the followin	g topic: "Gender Equa	ality in t	he Work	olace"			7 Marks
<ul><li>b) Assu</li></ul>	me that you are	a student organi	zing an event at your u e a reputed start-up fou	miversit	v Write	a forma	il letter to guest lect	your ture.	7 Marks
			UNIT-V						
1. 2. 3. 4. 5. 6.	Every winter, She At the moment He When I arrive While I	they (never/be) to the think, I (live) in this ed, they (walk) to	(write) an essay for n	ountain ny Engl ookies. rain.	s. ish assig				7 Marks
1. 2. 3. 4. iii Fill	We visited	new laptop he his postgraduate visitedwith appropria	ticles: nt castle during our tre bought recently is we e studies at European city te prepositions: admission to	orking univ along v	perfectly versity re with my p	r. enowne	d for its r		7 Marks
2. 3.	We congratula	ited our friends of the team hav	the success	s of the	ir band.		the diffe	erences in	

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positive.  3. The company's decision to extend that paid off in the long run.  4. The athlete's	to ensure a thorough under ons (affect/effect)  pand internationally was a (commitment/diffect)  desire to excel.  of the following sentence	standing.  Gect) your performance; focus on the  (bold / bald) move  dence) to six hours of training every	7 Mar
synonym from the options given	in brackets.		
modern concepts. ( <i>invention</i> / 2. The ambassador's ability to na	reproduction) avigate complex negotiation ately advocates for the res	n merging traditional techniques with one showcased his diplomatic acumen. sponsible use of resources to ensure the	:
Match the following idioms with the			7 N
1. Bite the bullet 2. Break the ice 3. Hit the hay 3. Cost-an-arm-and a leg 4. Cut to the chase 5. Burn the midnight-oil	i. Be-extremel ii. Initiate a co ii. Join a popul v. Work-late-ir	by expensive nversation in a social-setting lar trend or activity nto the night or sleep nain point-without-wasting time	