

Reg No.

23655

Velammal College of Engineering and Technology

Viraganoor, Madurai – 625 009

(Autonomous)

B.E./B.Tech. End Semester Examinations April 2024

Second Semester

Time : 3 Hours

Regulation 2021

Max. Marks 100

21EN102 – English - II
(Common to all Branches)

Answer ALL Questions
PART-A (10 x 2 = 20 Marks)

1. Define Laser technology
2. Extend the given compound words:
 - a. Energy Audit
 - b. Salary Package
3. Convert the following into Impersonal Passive voice statements:
 - a. Indian technologists have launched the Chandrayan IV at South Pole.
 - b. Anti-virus software could protect a computer or a laptop from viruses.
4. Convert the highlighted phrases into Numerical Adjectives:
 - a. They released a *souvenir having 100 pages*.
 - b. NPTEL conducts prime *courses for eight week duration*.
 - c. Japan has started exploration of *digital devices with thousand Tetra bytes*.
 - d. Our banks are planning to have *work for five days a week*.
5. Apply proper sequence words:

In the currency printing, -----the bankers design the currency. -----they carry out engraving of the design. -----they make use of siderography process. ----- the currency is printed by way of plate printing.
6. Identify the errors in the following passage and correct them:

We lunch satellites and spacecraft into space by putting them on rockets carrying tons of propallants. The satellite stays in arbit because it still has momentum. Earth's gravity pulls it in another direction. This balance between gravity and momentum keeps the satellite orbiting ground Earth.
7. Match the following with regard to synonym:
 - a. Coherent - profound knowledge
 - b. Differential - narrow scope
 - c. Erudite - orderly and consistent
 - d. Insular - showing courtesy

8. Express the conditional statements for the following using the given hints :

- a. If they -----(issued) degree on time we -----(join) the company)
- b. India -----(become) a super-power if young technologists----- (contribute) their knowledge and skill to the nation.

9. Match the following analogical combination;

(i) Safe : Secure :: Protect :

a. Lockb. Guardc. Sured. Conserve

(ii) Accurate is to precise as obtain is to -----

a. avail b. achieve c. miss d. absent

Rewrite the following as a reported statement;

10. The manager told the graduates, " The interview is cancelled ".

Part – B (5 x 16 = 80 marks)

11. a) (i) Interpret the following passage and answer the questions that follow: (5 x 2 = 10)

Artificial intelligence (AI), sometimes called machine intelligence, is intelligence demonstrated by machines, in contrast to the natural intelligence displayed by humans and other animals. In computer science AI research is defined as the study of "intelligent agents": any device that perceives its environment and takes actions that maximize its chance of successfully achieving its goals. Colloquially, the term "artificial intelligence" is applied when a machine mimics "cognitive" functions that humans associate with other human minds, such as "learning" and "problem solving". The scope of AI is disputed: as machines become increasingly capable, tasks considered as requiring "intelligence" are often removed from the definition, a phenomenon known as the AI effect, leading to the quip, "AI is whatever hasn't been done yet." For instance, optical character recognition is frequently excluded from "artificial intelligence", having become a routine technology. Capabilities generally classified as AI as of 2017 include successfully understanding human speech, competing at the highest level in strategic game systems (such as chess and Go), autonomous cars, intelligent routing in content delivery network and military simulations. Artificial intelligence was founded as an academic discipline in 1956, and in the years since has experienced several waves of optimism, followed by disappointment and the loss of funding (known as an "AI winter"), followed by new approaches, success and renewed funding. For most of its history, AI research has been divided into subfields that often fail to communicate with each other. These sub-fields are based on technical considerations, such as particular goals (e.g. "robotics" or "machine learning"), the use of particular tools ("logic" or artificial neural networks), or deep philosophical differences. Subfields have also been based on social factors (particular institutions or the work of particular researchers). The traditional problems (or goals) of AI research include reasoning, knowledge representation, planning, learning, natural language processing, perception and the ability to move and manipulate objects. General intelligence is among the field's long-term goals. Approaches include statistical methods, computational intelligence, and traditional symbolic AI. Many tools are used in AI, including versions of search and mathematical optimization, artificial neural networks, and methods based on statistics, probability and economics. The AI field draws upon computer science, mathematics, psychology, linguistics, philosophy and many others.

1. What is the AI winter?

a. Loss of funding for AI projects

b. Non-functioning AI systems

c. Absence of research labs

d. None of the above

2. Are sub-fields based only on social factors?

a. No b. Yes c. They are based on machine learning d. None of the above

3. Learning and problem solving by machines is a colloquial way of understanding artificial intelligence?

a. Yes b. No

c. Artificial intelligence means acquiring knowledge through books

d. It cannot be defined colloquially

4. Are autonomous cars an example of AI?

a. Yes b. No e. As of 2017, they are. d. None of the above

5. Does AI only draw on technology and mathematics?

a. Yes b. No c. It also draws upon psychology

d. It only draws upon linguistics

(ii) Read the following passage and choose minimum 6 compound words.

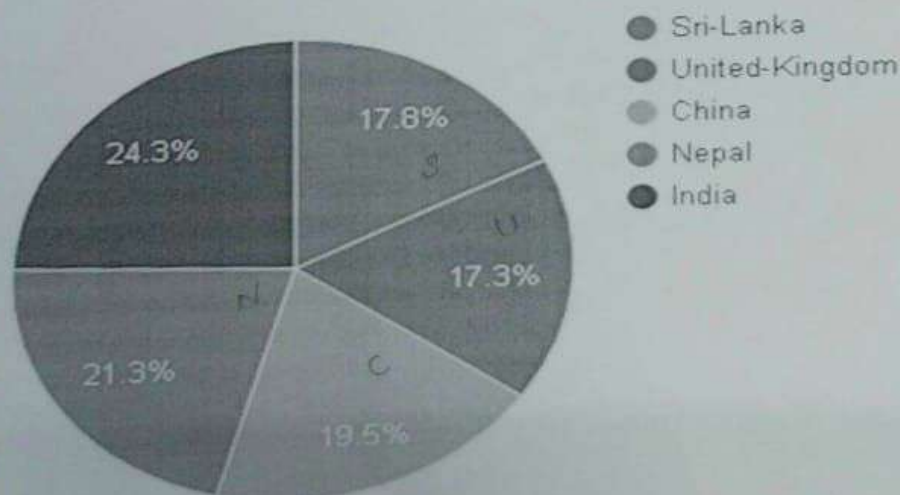
The Indian Space Research Organisation (ISRO, /'isrou/) is the space agency of the Government of India headquartered in the city of Bangalore. Its vision is to "harness space technology for national development while pursuing space science research and planetary exploration." Satellite navigation systems like GAGAN and IRNSS have been deployed. In January 2014, ISRO successfully used an indigenous cryogenic engine in a GSLV-D5 launch of the GSAT-14. The establishment of ISRO thus institutionalized space activities in India.

OR

b) Assume that you are going to present a technical paper at a Technical Symposium in Malaysia. Make a checklist for this trip.

12. a) Observe the following chart and transfer the content in a passage about 150 words. The chart exhibits the rate of migrants during Covid-19 period.

Country Score Board



OR

b. Illustrate your views on the advantages and difficulties of team work in executing a professional job.

13. a) Reproduce the following abstract in precise form.

Around 2010, 4G networks emerged, and they marked a substantial leap forward in mobile communication. 4G significantly increased data speeds and reduced latency, making real-time video streaming, online gaming, and high-quality video calls a reality. The improved data speeds and low latency of 4G networks had a profound impact on the mobile application ecosystem. The app-driven culture exploded, with a surge in mobile apps and services catering to various needs and interests. Mobile app stores, such as Apple's App Store and Google's Play Store, flourished, offering users access to a vast array of applications for productivity, entertainment, social networking, and much more.

5G is the next step in the evolution of mobile communications. It was designed to provide greater rates of data transfer, lower latency, and improved reliability compared to previous generations, enabling new use cases, and transforming a wide range of industries.

5G networks can support a much larger number of devices than previous generations and can also handle more data-intensive applications such as Virtual and Augmented Reality, autonomous vehicles, and the IoT (Internet of Things). With 5G, we have seen new innovations and opportunities in a variety of market verticals such as healthcare, manufacturing, transportation, and entertainment. 5G is also a key driver for technologies such as Edge Computing and Artificial Intelligence. 5G is continuing to grow and develop as MSPs (Mobile Service Providers) throughout the world are rolling out their 5G networks, and it will be exciting to see the new use cases it enables as we move through the 2020s.

OR

b) Your college has planned to conduct an international sports meet at your campus. Describe the process involved for creating registration link and other communication.

14. a) A prominent Software company is scheduled to visit your campus for recruitment. Prepare your Resume along with a cover letter to forward to your college placement cell.

OR

b) Explain the technical features of any two latest versions of mobile phones.

15. a) Report the rise of automobiles in Indian roads by discussing the road conditions and petrol prices.

OR

b) Imagine that you attended a meeting on National Service Scheme, organized by the University Program Officer. Summarize the proceedings of the meeting in minutes format.