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I.B.Tech - I - Semester End Examinations

Regular - - - RORR

ENGLISH [Code: EN105HS]

* - ANSWER KEY - *

PART - A

1 (a) According to Raman, why is the sea blue in colour?

C.V. Raman was born in Tiruchirappalli on 7th November 1888. He won the Nobel Prize for physics for his ground-breaking discovery of the phenomenon called the Raman Effect. He Speculated that the blue colour of the sea could be caused by the scattering of sunlight by the water molecules. He proved beyond doubt that water molecules scatter light.

2 (b) Major dynasties of South India:

Major dynasties includes Satavahana dynasty of Andhra region, Pandyan dynasty, Chola dynasty, Chera dynasty and Pallava dynasty.

(C) Indian Architecture's Important phase began with the "Mauryan Period". Megasthenes, the Greek ambassador of Seleucus Nicator who visited the Mauryan Court, described Chandragupta Maurya's palace as an excellent architectural achievement. There were significant achievements in the field of architecture during Ashoka's reign.

(d) Reading Sub Skills

- 1) Skimming → To Get general idea/overview
Ex: Reading the headings of news paper
- 2) Scanning → Reading for specific details.
Ex: focus on specific timeslot in a TV program
3. Intensive Reading → To understand main idea
→ Reading text in detail
Ex: Reading a course book, lab manual.
- 4 Extensive Reading
→ Reading for pleasure
Ex: Reading a story, novel.

(e) How was the blue jeans evolved?

Blue jeans as we see them have a long and strange history. Denim cloth has an unusual history. Denim cloth is originally made from wool. But by 1700's it was made from wool and cotton, only later it made solely from cotton. The strong fabric was used as sail for boats. Levi Strauss, recognised a need for strong work pants in the mining communities and designed Levi's in 1850. few other changes like rivets, zippers, buttons were included.

(F) Paragraph writing: open-ended question.
focus should be on Topic Sentence
Supporting Sentences
Concluding Sentence
on given topic

(g) I understood "A Healthy Eating Pyramid" from the lesson "What should you be Eating?" which helps to demonstrate how a balanced diet can be achieved. It is a simple, general and flexible guide to how we should eat and when we eat.

(h) Sugary drinks should be consumed very sparingly. They contain high level of sugar and sugary drinks cause an accelerated increase in blood sugar levels. And also increase the risk of heart diseases.

(i) Report : Description of an event which carried back to someone who was not present on the scene / at the situation.

Types :
• Business Reports
• Scientific Reports
• Technical Reports
• Reports interpreting data.

Structure of Manuscript :

1. Title page
2. Abstract / Summary
3. Acknowledgement
4. Table of Contents
5. Introduction
6. Methods
7. Discussion of results
8. Conclusion
9. References
10. Appendices / Annexure.

(i) Technical Vocabulary

Technical Vocabulary is the specialised Vocabulary of any field that evolves due to the need for experts in that field to Communicate quickly, clearly and easily. Academic disciplines such as Engineering, Medicine, Psychology, Business, Linguistics et cetera require a wide knowledge of the words and phrases used in these respective areas. In most fields, technical terms get used extensively both in written and spoken communication. We have to enrich Computer-related terms, Technology and Engineering related terms, and also Business related terms.

PART-B

(2) C.V. Raman's Contribution:

Chandra Sekhar Venkata Raman was born in Tiruchirappalli on 7th November 1888, His father was lecturer in physics so that from the first he was immersed in an academic atmosphere. Hard work was second nature to him and academic brilliance was part of him. He was mainly interested in acoustics, the science of sound. He studied how stringed instruments like the tabla and the mridangam, violin and the Sitar could produce harmonious music.

C.V. Raman participated as a delegate at the universities Congress in 1921. During this sea voyage to London that he was struck by the 'blue' colour of the mediterranean sea. Many people noticed this earlier but they all thought it was the reflection of sky.

He speculated that the blue colour of the sea could be caused by the scattering of sunlight by the water molecules. He proved beyond doubt that water molecules indeed scatter light. on his return to India, he initiated research in three areas: the scattering of light by liquids, the scattering of x-rays by liquids and the viscosity of liquids.

of these three, it was the work in the first area that fetched him the "Nobel-prize" in 1930. The discovery was announced through the Associated press on 29th February and 8 March.

(3) In English, articles define / modify the nouns in a sentence.

The article 'a' is used when the noun starts with a Consonant sound;

The article 'an' is used when the noun starts with a vowel sound.

Use of definite articles:— "the"

- before a noun which has already been introduced earlier.
- before some geographical areas and entities like seas, rivers, oceans, groups of islands, mountain ranges which do not have clear political boundaries.
- with names of some countries which are historically a group of territories
- before nouns which are unique and only one of their kind.
- before Superlatives
- before adjectives which are used as nouns.

The use of indefinite article - 'an'

- before a noun which has not been introduced earlier
- before an unspecified singular noun
- before a singular noun while defining essential properties of a class
- before a singular object in the sense of "one"
- with some phrases indicating quantity.

(4) Indigenous styles of architecture:

- 1. ~~Mog~~ Mughal Architecture
- 2. Dravidian Architecture
- 3. Cave architecture
- 4. Rock-cut architecture

* Gandhara style *

The blending of Greek and Indian art subsequently led to the development of Gandhara art.

A large number of statues of the Buddha were built by the artisans of these schools. Under the Gandhara School of art, life-like statues of the Buddha and Bodhisattvas were made in the likeness of Greek Gods, even though the ideas, inspirations and subjects were all Indians.

(15)

Letter

(5)

Heading : Station , Date from & To address	- 2m
proper salutation	- 1m
Subject line	- 1m
Body of the letter	- 5m
Subscription / Superscription	- 1m
	10m

(6) Manufacturing process of Blue Jeans:

In order to manufacture trousers, first the fabric has to be prepared. This is done in three stages.

(1) Preparing the Cotton yarn:

There are several steps to be taken before the ginned cotton. The incoming cotton is removed from tightly packed bales and inspected, before undergoing a process known as Carding. In this process, the cotton is put through machines that contain brushes with bent wire teeth. These brushes called cards.

(2) Dyeing the yarn:

Some fabrics are woven and then dyed, but

denim is usually dyed with chemically synthesised indigo before being woven. Large balls of yarn, called ball warps, are dipped in the indigo mixture several times so that the dye covers the yarn in layers.

(3) Weaving the yarn:

The yarn is then woven on large mechanical looms. Denim is not a hundred per cent blue, as the blue dyed threads forming the warp are combined with white threads forming the weft.

- 17)
1. Simple present
 2. Simple past
 3. Simple future
 4. present Continuous
 5. present perfect
 6. present perfect Continuous
 7. past Continuous
 8. Simple future
 9. past perfect
 10. future Continuous.

⑧ Refined grains:

Refined grains include white bread, rice and pasta. Potatoes too fall into this category of foods that should be eaten very sparingly. These items are high in sodium and increase the risk of heart diseases and result in weight gain. This is because refined grains and sugary drinks cause an accelerated increase in blood sugar levels. Whole grains like wheat and brown rice cause a more gradual increase in blood sugar. The body is better equipped to handle a gradual rise in blood sugar levels.

(9) Essay writing open-ended questions

Introduction → 2m

Body of the Essay → 6m

Conclusion → 1m

Connection b/w 4 essay ideas → 1m

10m

(10)

Mokshagundam Visvesvaraya was a man who excelled at many different fields was born on 15th September 1861. Right from childhood days, Visvesvaraya learnt from his parents deep respect for the culture and the traditions of the land. He had been a combination of endeavor, adventure, courage, intellect, capacity and strength. He led the country to the path of progress and his each and every creation was considered mighty and magnificent. Discipline was his watchword. Here giving two instances of Sir M.V.'s engineering excellence.

Block System: When he was 32 years old, a very difficult task was assigned to him where he was asked to find a way of supplying water from the river Sindhu to a town called Sukkur. He prepared an ingenious plan, which amazed the other famous engineers. He developed a new system called the "Block System" where he devised steel doors, these could stop the wasteful flow of water in dams. Even British officers of those times were astonished by the dexterity and they were full of praise for the invention.

* Krishnaraja Sagar Dam:

Krishnaraja Sagar Dam, in the vicinity of the renowned Brindavan Gardens, is reminiscent of Vivekananda's ingenuity. The dam was conceived not only for the purpose of irrigation, but also providing electricity to the Kolar gold fields. As the work of construction was proceeding the river came very close in spite. Vivekananda directed the work to be carried out with greater enthusiasm. By facing all problems and difficulties with courage, he got the work completed by carrying the work non stop day and night and finished well in time.

Other instances are:

- * Construction of dam across Indira to provide twin cities water.
- * Economic Conference: to find ways of removing ignorance, poverty and sickness.

⑪.

Describing place

open-ended question.

Focus on

→ location

• Star attractions of the place

• What makes place scary/disgusting to you

• Visual, auditory, olfactory and gustatory of the place

• Connection b/w + many ideas.