

12/05/23

Printing Pages : 1

Paper Code : BECE-611
(C) (SVSU:2022-2023/R)

Enrollment No.

B.TECH (ECE)
IIIRD YEAR VITH SEM EXAMINATION
BIO-MEDICAL ELECTRONICS

[Time : 3:00 Hours]

[Max. Marks : 70]

I Answer Any Four

[4×3=12]

1. Define Electrocardiograph and Electroencephalograph.
2. What are the electrodes used for EEG?
3. What are the electrodes used for EMG?
4. Determine the conduction velocity of motor nerves.
5. What are the advantages of Silver-Silver chloride electrode?
6. Give the Nernst equation of electrode potential.

II. Answer Any Three

[3×4=12]

1. What is resting potential?
2. What is bioelectric potential?
3. What are polarizable and non-polarizable electrodes?
4. Define Half-cell potential.

III. Answer Any Three

[3×6=18]

1. List out the basic requirements of bioamplifiers.
2. Define Korotkoff sound.
3. Differentiate Auscultatory and Palpatory methods of BP measurement.
4. State the principle behind to measure blood flow using transit time method.

IV. Answer Any Two

[2×7=14]

1. Draw the ideal equivalent circuit of an Op-amp.
2. Instrumentation amplifiers are preferred over differential amplifiers. Justify?
3. Why Operational amplifiers are preferred to design Bio amplifiers?

V. Answer Any Two

[2×7=14]

1. Discuss the principle and working of ultrasound blood flow meters.
2. Explain the types of temperature measurement in detail.
3. Sketch the block diagram of automated sphygmomanometer for blood pressure measurement and explain its operation.

ENROLLMENT NO.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

B.TECH. (ECE)

3rd YEAR, 6TH SEMESTER EXAMINATION

HUMAN RELATION AT WORK

[Time: 3:00 Hrs.

Max. Marks:70]

NOTE:- ATTEMPT ALL THE QUESTIONS AS PER GIVEN INSTRUCTIONS

QUESTION NO.-1: ATTEMPT ANY FOUR PARTS.

(4*3=12)

- Define Self Image. How to create more positive self-image.
- What is meditation? How will meditation affect our life and make it better
- What is difference between Aerobic & anaerobic?
- What is Diversity?
- What is something that frustrates you? Where and when do you feel most relaxed?
- What is Life span changes?

QUESTION NO.-2: ATTEMPT ANY THREE PARTS.

(3*4=12)

- Why cross-cultural studies is important?
- What is a Learning Strategy? What is the role of the Learning Skills Advisor?
- What is the relationship between ethics and creativity?
- What are the differences between Values and ethics.

QUESTION NO.-3: ATTEMPT ANY THREE PARTS.

(3*6=18)

- Write short notes on:
 - Self-confidence
 - Developing good work habits
- What are the specialized Tactics for getting along with others in the workplace?
- Explain Goal setting? what are the types of Goal setting?
- How do you deal with difficult people?

QUESTION NO.-4: ATTEMPT ANY TWO PARTS.

(2*7=14)

- What are 3 goals of meditation & What are 4 obstacles of meditation?
- How does Attitude affect Happiness?
- Explain Johari- Window.

QUESTION NO.-5: ATTEMPT ANY TWO PARTS.

(2*7=14)

- Explain Self-Motivation at work place.
- Is Pranayama necessary for getting Darshana of the Lord?
 - Can there be any dangerous result in the practice of Pranayama as some people think?
- How to manage Stress and your personal problems?

* * * * *