1. Tran	scutaneous Electrical Nerve Stimulator (TENS)
1.	TENS therapy is primarily used for management. a) Blood pressure b) Pain c) Heart rate d) Digestion Answer: b) Pain
2.	TENS works by delivering electrical pulses to the skin to stimulate a) Muscles b) Nerve endings c) Bone marrow d) Blood vessels Answer: b) Nerve endings
3.	The two main types of TENS stimulation are conventional TENS andTENS a) High-intensity b) Low-frequency c) Acupuncture-like d) Direct current Answer: c) Acupuncture-like
4.	The main function of TENS is to block pain signals from reaching the a) Spinal cord b) Brain c) Muscles d) Skin surface Answer: b) Brain
5.	TENS devices work based on the theory of pain modulation. a) Endorphin b) Gate control c) Frequency shifting d) Heat transfer Answer: b) Gate control
6.	A major contraindication for TENS therapy is in patients with a) High blood pressure b) Cardiac pacemakers c) Diabetes d) Muscle spasms Answer: b) Cardiac pacemakers
7.	The most common frequency range used in TENS therapy is between Hz a) 1-10 b) 50-100 c) 200-500 d) 10,000-50,000 Answer: b) 50-100
8.	The placement of TENS electrodes should be near the a) Heart

	b) Pain source c) Spine d) Lungs Answer: b) Pain source
9.	Biofeedback therapy helps individuals control physiological functions such as a) Digestive enzyme secretion b) Blood sugar levels c) Heart rate and muscle tension d) Eye movement Answer: c) Heart rate and muscle tension
10.	Electromyography (EMG) biofeedback measures the activity of a) Neurons b) Muscles c) Blood vessels d) Skin cells Answer: b) Muscles
11.	Electroencephalography (EEG) biofeedback is also known as training. a) Muscle b) Brainwave c) Thermal d) Acoustic Answer: b) Brainwave
12.	A common application of biofeedback is the treatment of a) Fractures b) Chronic pain and stress c) Diabetes d) Bacterial infections Answer: b) Chronic pain and stress
13.	The process of biofeedback involves using to help patients understand their physiological functions. a) Computer software b) Electrical impulses c) Sound waves d) Manual stimulation Answer: a) Computer software
14.	Thermal biofeedback monitors to assess stress and circulation. a) Brain activity b) Skin temperature c) Heart rate d) Breathing pattern Answer: b) Skin temperature
15.	Heart rate variability (HRV) biofeedback is commonly used to improve a) Blood sugar levels b) Cardiovascular health c) Digestion speed

	d) Body temperature Answer: b) Cardiovascular health
16.	Galvanic Skin Response (GSR) biofeedback measures changes in a) Brain waves b) Skin conductivity c) Muscle tone d) Blood pressure Answer: b) Skin conductivity
17.	Point-of-care (POC) testing refers to diagnostic testing performed a) In centralized laboratories b) Near the patient c) Only in hospitals d) By radiologists Answer: b) Near the patient
18.	One of the main advantages of POC testing is a) Faster results b) Higher complexity c) Larger equipment d) Increased sample requirements Answer: a) Faster results
19.	A commonly used point-of-care diagnostic tool for diabetes is a) ECG machine b) Blood glucose monitor c) MRI scanner d) Spirometer Answer: b) Blood glucose monitor
20.	POC testing is especially useful in settings. a) Remote and emergency b) Only in research labs c) Highly urbanized areas d) Dental clinics Answer: a) Remote and emergency
21.	The main limitation of POC diagnostic devices compared to laboratory tests is their
22.	Microfluidic lab-on-a-chip technology in POC testing allows for a) Large sample processing b) Miniaturized chemical analysis c) MRI scans d) Long-term storage Answer: b) Miniaturized chemical analysis

23.	Rapid antigen tests are commonly used for the detection of a) Heart rate b) Infectious diseases c) Blood clotting disorders d) Diabetes Answer: b) Infectious diseases
24.	A major benefit of wearable diagnostic devices is their ability to provide a) Real-time monitoring b) Genetic analysis c) Complex tissue imaging d) Drug formulation Answer: a) Real-time monitoring
25.	Portable ultrasound devices are an example of point-of-care testing for a) Neurological disorders b) Imaging soft tissues c) Blood glucose monitoring d) Genetic screening Answer: b) Imaging soft tissues
26.	The main goal of TENS therapy is to provide pain relief. a) Permanent b) Temporary c) Surgical d) Invasive Answer: b) Temporary
27.	TENS is most commonly used for treating pain conditions. a) Acute b) Chronic c) Neuropathic d) All of the above Answer: d) All of the above
28.	In TENS, the frequency range for acute pain relief is typically Hz. a) 1-5 b) 10-20 c) 80-130 d) 500-1000 Answer: c) 80-130
29.	The effectiveness of TENS therapy depends on factors such as and electrode placement. a) Frequency b) Skin color c) Age d) Body weight Answer: a) Frequency
30.	High-frequency TENS is thought to work by stimulating the release of a) Adrenaline b) Cortisol c) Endorphins

	d) Serotonin Answer: c) Endorphins
31.	The duration of a TENS therapy session typically lasts between minutes. a) 1-5 b) 10-60 c) 100-120 d) 180-240 Answer: b) 10-60
32.	a) Muscle stiffness b) Open wounds c) Joint pain d) Swollen tissues Answer: b) Open wounds
33.	The main objective of biofeedback is to help patients gain control over a) Their breathing b) Their physiological responses c) Their movement coordination d) Their genetic makeup Answer: b) Their physiological responses
34.	Biofeedback can be useful for managing conditions such as a) Hypertension b) Anxiety c) Chronic pain d) All of the above Answer: d) All of the above
35.	A key component of biofeedback training involves monitoring and adjusting a) Genetic markers b) Physiological signals c) Body weight d) Muscle mass Answer: b) Physiological signals
36.	The physiological signals most commonly measured in biofeedback therapy include muscle activity, heart rate, and a) Hair growth b) Skin conductivity c) Bone density d) Body temperature Answer: b) Skin conductivity
37.	A common technique used in biofeedback to reduce stress and anxiety is training. a) Soundwave b) Neurofeedback c) Muscle relaxation d) Resistance Answer: c) Muscle relaxation

38.	In biofeedback, a person receives real-time information about their physiological state through
	a) Electrical impulses b) Visual or auditory cues c) Chemical signals d) Genetic testing Answer: b) Visual or auditory cues
39.	One of the primary benefits of biofeedback is that it helps reduce dependence on a) Physical therapy b) Medications c) Exercise d) Diet plans Answer: b) Medications
40.	Point-of-care (POC) testing allows for faster medical decisions because results are obtained in time. a) Immediate b) Delayed c) 24-hour d) 7-day Answer: a) Immediate
41.	A common example of a POC testing device is a monitor. a) Blood glucose b) MRI c) CT scan d) X-ray Answer: a) Blood glucose
42.	The primary advantage of point-of-care testing is its ability to provide diagnostic results with minimal a) Equipment b) Accuracy c) Cost-effectiveness d) Patient involvement Answer: a) Equipment
43.	Portable ECG monitors help in detecting disorders outside clinical settings. a) Respiratory b) Neurological c) Cardiac d) Gastrointestinal Answer: c) Cardiac
44.	The accuracy of point-of-care tests can be affected by errors. a) Technical b) Environmental c) Operator d) All of the above Answer: d) All of the above

45.	Wearable biosensors used for real-time monitoring often measure parameters such as
	a) Blood oxygen levels b) Muscle size c) Weight gain d) Genetic changes Answer: a) Blood oxygen levels
46.	One of the key components of point-of-care lab-on-a-chip technology is a) Microfluidics b) Ultrasound waves c) X-ray beams d) Magnetic resonance Answer: a) Microfluidics
47.	Rapid antigen tests are often used for diagnosing a) Blood disorders b) COVID-19 and influenza c) Skin diseases d) Neurological conditions Answer: b) COVID-19 and influenza
48.	The most important requirement for a point-of-care testing device is that it must be a) Large and complex b) User-friendly and portable c) Expensive and hospital-based d) Heavy and automated Answer: b) User-friendly and portable
49.	Handheld ultrasound devices are increasingly used in settings for quick imaging. a) Remote and emergency b) Laboratory c) Cardiac surgery d) Genetic testing Answer: a) Remote and emergency
50.	A wearable electrocardiogram (ECG) monitor helps in detecting abnormalities. a) Liver b) Heart rhythm c) Skin d) Kidney Answer: b) Heart rhythm
51.	TENS therapy primarily works by stimulating to block pain signals. a) Nerves b) Muscles c) Blood vessels d) Bones Answer: a) Nerves
52.	The two main types of TENS stimulation are and low-frequency. a) High-frequency b) Medium-frequency c) Low-voltage

	d) Variable-frequency Answer: a) High-frequency
53.	The placement of TENS electrodes should be over or near the a) Heart b) Painful area c) Bone structure d) Large blood vessels Answer: b) Painful area
54.	TENS therapy should be avoided by individuals with implants. a) Cochlear b) Pacemaker c) Dental d) Knee replacement Answer: b) Pacemaker
55.	The sensation produced by TENS therapy is often described as a feeling. a) Sharp pain b) Tingling c) Burning d) Numbness Answer: b) Tingling
56.	TENS therapy can help reduce the use of for pain management. a) Antibiotics b) Painkillers c) Vitamins d) Anti-inflammatory creams Answer: b) Painkillers
57.	The effect of TENS therapy lasts for after treatment stops. a) Minutes to hours b) Several days c) Weeks d) Permanently Answer: a) Minutes to hours
58.	Biofeedback therapy is used to treat conditions related to control. a) Involuntary physiological functions b) Genetic disorders c) Physical trauma d) Viral infections Answer: a) Involuntary physiological functions
59.	One of the most commonly measured parameters in biofeedback is a) Blood type b) Skin temperature c) Hormone levels d) Bone density Answer: b) Skin temperature

60.	The technique used to measure muscle activity in biofeedback is called a) Electroencephalography (EEG) b) Electromyography (EMG) c) Electrocardiography (ECG) d) Spirometry Answer: b) Electromyography (EMG)
61.	Biofeedback therapy can be used to treat conditions like a) Hypertension b) Insomnia c) Chronic pain d) All of the above Answer: d) All of the above
62.	Neurofeedback is a specialized form of biofeedback that focuses on activity. a) Muscle b) Brain wave c) Heart rate d) Lung capacity Answer: b) Brain wave
63.	During a biofeedback session, a patient receives feedback in the form of a) Visual or auditory cues b) Medication prescriptions c) Physical therapy exercises d) Dietary recommendations Answer: a) Visual or auditory cues
64.	Biofeedback can be an effective non-drug treatment for a) Migraines b) High blood pressure c) Anxiety d) All of the above Answer: d) All of the above
65.	A commonly used biofeedback technique for stress management is a) Deep breathing b) High-intensity exercise c) Antibiotic therapy d) Radiation therapy Answer: a) Deep breathing
66.	Point-of-care (POC) testing is designed to provide rapid results at or near the a) Laboratory b) Patient's location c) Pharmacy d) Research center Answer: b) Patient's location
67.	A portable glucose meter is an example of a diagnostic device. a) Hospital-based b) Point-of-care c) Laboratory-dependent

	d) High-tech Answer: b) Point-of-care
68.	POC devices are widely used in emergency care because they provide results in a) Days b) Hours c) Minutes d) Weeks Answer: c) Minutes
69.	One major advantage of point-of-care testing is the reduction in time. a) Cost b) Diagnosis c) Treatment d) Both b & c Answer: d) Both b & c
70.	Wearable biosensors help in real-time monitoring of physiological parameters such as a) Blood pressure b) Oxygen saturation c) Heart rate d) All of the above Answer: d) All of the above
71.	A key component of lab-on-a-chip technology used in POC testing is a) X-ray imaging b) Microfluidics c) MRI scanning d) Radiation therapy Answer: b) Microfluidics
72.	Portable ECG monitors are mainly used for detecting abnormalities. a) Heart rhythm b) Blood sugar c) Kidney function d) Brain activity Answer: a) Heart rhythm
73.	Point-of-care testing in rural areas improves healthcare by providing a) Faster diagnosis b) Less accurate results c) Delayed treatment d) Limited patient monitoring Answer: a) Faster diagnosis
74.	Handheld ultrasound devices allow for quick imaging in settings. a) Remote and emergency b) Surgery c) Cancer treatment d) Dental clinics Answer: a) Remote and emergency

75. A key requirement for POC devices is that they must be _____.

- a) Large and complex
- b) Portable and easy to use
- c) Expensive and slow
- d) Heavy and automated

Answer: b) Portable and easy to use