Principles of the ESSENTRICS® Program

Level 1 Aging Backwards® Certification Written Evaluation Package Short Answer & Mutliple Choice

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ESSENTRICS ACADEMY

LEVEL 1 WRITTEN EVALUATION REQUIREMENTS

The contents of this Evaluation Package provide you with everything you need for the short answer and multiple choice portions of your Level 1 exam. Combined, they contribute to 30% of your overall Level 1 grade. The remaining portion is attributed to the practical teaching portion. A minimum total grade of 80% is required to obtain the Essentrics Level 1 Certificate of Completion and become a Certified Level 1 Essentrics® Instructor.

1. WRITTEN EVALUATION	10%
Submission of the completed short-answer written evaluation detailing objectives, technand muscle groups related to exercise sequences from PCW1.	iques,
2. L1 MULTIPLE CHOICE EVALUATION	10%
Submission of the completed multiple-choice questionnaire based on the theory from the Level 1 Manual (80 questions).	е
3. AB MULTIPLE CHOICE EVALUATION	10%
Submission of the completed multiple-choice questionnaire based on the content of Mir Esmonde-White's book Aging Backwards (50 questions).	anda

WRITTEN EVALUATION GUIDELINE

For each question, you will be asked to:

- 1. Illustrate the exercise and explain the movement
- 2. List the primary objective
- 3. List the techniques that are required to achieve your primary objective
- 4. List the secondary objectives
- 5. List the techniques that are required to achieve your secondary objectives
- 6. List the primary muscle groups targeted

Each question is marked out of a grade of 6.

NOTE: There are many potential correct answers to each question. As you know, each Essentrics exercise delivers many objectives through a variety of applied techniques that target many muscles. Once you choose your primary and secondary objectives, make sure that the techniques you choose relate directly to what *you* have written. Choose techniques that drive home the objectives you list in order to receive full marks and use this written portion as an opportunity to reflect and apply critical thinking to the program.

To "explain the movement," use imagery and verbal cues you would use to teach the exercise to your students in class. The purpose of this requirement is to help you break down the movement. We are not asking for every single step and instruction, just the main ones. See the <u>example provided</u> for an idea of what we are looking for.

When you choose your techniques, we ask that you outline the specific category from which they are from:

- Positional Techniques
- Joint Movement Techniques
- Neuromuscular Techniques

You will have marks deducted if this is omitted.

EXAMPLE: Lifting Buckets of Water (not featured in PCW1)

Illustrate and explain the movement:

- Start with your legs slightly wider than your hips, bend both knees and tuck your tailbone under into a Neutral C. Round your upper back, relax your shoulders and lower your upper body towards the floor, letting your arms hang heavy.
- Spinal roll up: Slowly straighten your spine, one vertebra at a time, imagine you are lifting heavy buckets of water (this imagery will help students achieve the desired muscle contraction).
- As your hands arrive at shoulder height, do a full shoulder rotation to finish with your shoulders down, elbows bent by your side, palms up.
- Finish: Push something heavy towards the ceiling as you straighten your elbows, arriving in Neutral Elongation.



What is the primary objective of this exercise?

Improving posture

What techniques are needed to achieve your primary objective? (Minimum 2) + technique category

- Neutral C & Neutral Elongation (Positional Techniques)
- Pulling Up (Joint Movement Technique)
- Resistance & Imagery (Neuromuscular Techniques)

What are your secondary objectives? (Minimum 2)

- Flexibility of the spine
- Flattening the stomach

What techniques are needed to achieve your secondary objectives? (Minimum 2) + technique category

- Movement of and within the Joint (Joint Movement)
- Resistance (Neuromuscular)
- Isotonic Contraction (Neuromuscular)
- Pulling Up (Joint Movement)

What primary muscle groups are being targeted? (Name 3)

- Trapezius
- Latissimus dorsi
- Erector spinae muscles

1. WRITTEN EVALUATION

1. Shoulder Blast
Illustrate & explain the movement:
What is the primary objective?
What techniques are needed to achieve your primary objective? (Minimum 2) + technique category
What are the secondary objectives? (Minimum 2)
What techniques are needed to achieve your secondary objectives? (Minimum 2) + technique category
Which primary muscle groups are being targeted? (Name 3)

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_ 	tio the aviaceus abioetise?
vvna	t is the primary objective?
-	
Wha	t techniques are needed to achieve your primary objective? (Minimum 2) + technique category
Wha	t are the secondary objectives? (Minimum 2)
- ۱۸/ha	t tachniques are needed to achieve your secondary chiestiyes? (Minimum 2) I tachnique sategor
vvna	t techniques are needed to achieve your secondary objectives? (Minimum 2) + technique categor
-	h primary muscle groups are being targeted? (Name 3)
- Whi	in printary muscle groups are being targeteu: (Name 3)
Whi	in primary muscle groups are being targeted: (Name 3)
Whi	in primary muscle groups are being targeted: (Name 3)

3.	Arm Pumps
Illus	trate & explain the movement:
Wha	it is the primary objective?
-	
Wha	t techniques are needed to achieve your primary objective? (Minimum 2) + technique category
Wha	it are the secondary objectives? (Minimum 2)
-	
Wha	t techniques are needed to achieve your secondary objectives? (Minimum 2) + technique category
Whi	ch primary muscle groups are being targeted? (Name 3)

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iiiust	rate & explain the movement:
Wha	t is the primary objective?
_	
Wha	t techniques are needed to achieve your primary objective? (Minimum 2) + technique category
Wha	t are the secondary objectives? (Minimum 2)
- \	t took wing one and add to achieve your assendant abiostices? (Minimour 2) t took wing a store w
vvna	t techniques are needed to achieve your secondary objectives? (Minimum 2) + technique category
_	
\//hi/	th primary muscle groups are being targeted? (Name 3)

5. Side Leg Lifts
Illustrate & explain the movement:
What is the assignment abisetine?
What is the primary objective?
What techniques are needed to achieve your primary objective? (Minimum 2) + technique category
What are the secondary objectives? (Minimum 2)
What techniques are needed to achieve your secondary objectives? (Minimum 2) + technique categor
Which primary muscle groups are being targeted? (Name 3)

6.	Lever Stretch. Choose one o	f the following thr	ee options:
Leve	r Stretch with Side Lunge	_ Baby Stretch	Figure 4 Stretch
Illust	rate & explain the movement	:	
Wha	t is the primary objective?		
-			
Wha	t techniques are needed to ac	hieve your primary	objective? (Minimum 2) + technique category
Wha	t are the secondary objectives	s? (Minimum 2)	
Wha	t techniques are needed to ac	hieve your seconda	ary objectives? (Minimum 2) + technique category
_			
Whic	th primary muscle groups are	being targeted? (N	ame 3)

2. LEVEL 1 MULTIPLE CHOICE EVALUATION

Based on the Principles of Essentrics Level 1 Manual

Circle one letter that best answers each question

1.	Ess€	entrics	·			
	a.	Increases the flexibility of your muscle	s through eccentric strength training			
	b.	Is a strengthening program				
	c.	c. Simultaneously stretches and strengthens your muscles				
	d.	All of the above				
2.	The	philosophy behind Essentrics is to	the entire body.			
	a.	Stretch				
	b.	Rebalance				
	c.	Strengthen				
	d.	Release				
3.			how a foot injury can cause hip problems, or an			
	arm	injury can cause shoulder problems.				
	a.	Body awareness				
	b.	Muscle chains				
	C.	Dynamic movement				
	d.	Levers				
4.	Tore	ebalance the full-body you must	·			
	a.	Work agonist & antagonist muscle gro	ups			
	b.	Stretch & strengthen all 650 muscles				
	c.	Work the Short & Long Levers equally				
	d.	All of the above				
5.		ength withoutture.	_inevitably leads to immobility, atrophy, and poor			
	a.	Flexibility				
	b.	Power				
	c.	Endurance				
	d.	Massage				

6.	Essei	ntrics uses
	a.	Static stretching
	b.	Active stretching
	c.	Passive stretching
	d.	Ballistic stretching
7.		is essential to be able to fully stretch and strengthen your muscles.
	a.	Passive stretching
	b.	Relaxation
	c.	Ballistic movement
	d.	Weight training
8.		category of Essentrics techniques is designed to ensure a safe load path and clean ment of your joints: Joint Movement Techniques
	b.	Neuromuscular Techniques
	c.	Positional Techniques
	d.	All of the above
9.		alignment leads to muscular imbalance, atrophy of un-recruited muscles and inefficient ts when training. True False
	ο.	Taise
10.		relieves pressure on your joints, protects them from impact and lerates the healing process by permitting synovial fluid to enter joint capsule.
	a.	Pulling Up
	b.	Deep Breathing
	C.	Resistance
	d.	Isolation
11.	Wha	t do Neutral C, Neutral Elongation, Alignment and Turnout have in common?
	a.	They are all Positional Techniques
	b.	They all ensure correct load path
	c.	They are all necessary to teach a safe class
	Ь	All of the above

12.		are techniques that apply the basic philosophy of an eccentric
	move	ement: lengthening and strengthening.
	a.	Neutral C and Neutral Elongation
	b.	Pulling Up and Pulling Out
	c.	Short Lever / Long Lever
	d.	Agonist / Antagonist
13.		releases tension, allows for a deeper stretch, and catches
	perip	pheral muscles in addition to the primary targeted ones.
	a.	Isolation
	b.	Pulling Out
	c.	Movement Within a Stretch
	d.	Overextension
14.	The p	orimary purpose of all Joint Movement Techniques is to:
	a.	Trigger a response in the nerves and muscles
	b.	Increase the full mobility of every joint and to maintain their full function
	c.	Position the body to ensure correct load path
	d.	Burn more calories
15.	Pullir	ng Up helps us achieve the following benefit(s):
	a.	Good posture
	b.	Improved digestive health
	c.	Increased energy
	d.	All the above
16.	Corre	ect alignment starts with proper placement of the
	a.	Feet
	b.	Hips
	c.	Knees
	d.	Head
17.	Corre	ect alignment
	a.	Protects your joints
	b.	Recruits 100% of the targeted muscles
	C.	Increases energy
	٦	All of the above

18.	Turno	out, or Turning Out, is a technique that
	a.	Increases range of motion
	b.	Improves balance
	c.	Reverses atrophy and loosens scar tissue
	d.	All of the above
19.	Every	yone has the same Turnout angle.
	a.	True
	b.	False
20.		th technique involves moving the limb in a rotational fashion while the joint remains lized and isolated?
	a.	Rotation within a Joint
	b.	Movement of the Joint
	c.	Deep Breathing
	d.	PNF
21.	prop	is one of the most valuable and effective tools to help your students erly execute various exercises without spending too much time explaining details.
	a.	Imagery
	b.	PNF
	c.	Alignment
	d.	Myotatic reflex
22.		use of as a technique has several beneficial objectives which de relaxing your muscles, assisting in blood flow and transporting oxygen and nutrients.
	a.	Pulling Out
	b.	Resistance
	c.	Deep Breathing
	d.	Lever Stretches
23.	Ballis	ctic movement
	a.	Is a very safe flexibility technique
	b.	Does not increase flexibility because the speed contracts and shortens the muscle
	c.	Helps to relax the muscles
	d.	Is considered a Joint Movement Technique

	a.	Propriocentric Neurological Facilitation		
	b.	Propriometric Neuroactive Facilitation		
	c.	Proprioception Neurological Facility		
	d.	Proprioceptive Neuromuscular Facilitation		
25.	Wha	t is a simplified explanation of PNF?		
	a.	Contract – Release – Stretch		
	b.	Contract – Release – Relax – Stretch		
	c.	Contract – Rotate – Stretch		
	d.	Stretch — Relax — Stretch		
26.	PNF requires special equipment.			
	a.	True		
	b.	False		
27.	The relationship between muscles that explains for the fact that when a muscle contracts and shortens its opposing muscle relaxes and lengthens is			
	a.	Myosin / Actin		
	b.	Concentric / Eccentric		
	c.	Agonist / Antagonist		
	d.	None of the above		
28.		is a Neuromuscular Technique that triggers our muscles to relax in		
	orde	r to release tension and safely increase flexibility.		
	a.	PNF		
	b.	Turnout		
	c.	Two-Directional Stretch		
	d.	Long Lever		
29.	Whi	ch one of the following is not a Neuromuscular Technique?		
	a.	Relaxation		
	b.	PNF		
	c.	End of the Stretch		
	d.	Rotation of a Joint		

24. What is PNF?

30.	A(n)	contraction occurs when a muscle shortens, bringing its
attachment points closer together.		hment points closer together.
	a.	Eccentric
	b.	Concentric
	c.	Isometric
	d.	Involuntary
31.		vement in which resistance or weight remains the same as your muscles change h is known as what kind of muscle contraction?
	a.	Isometric
	b.	Resistance
	c.	Isotonic
	d.	PNF
32.	In Es	sentrics we only use eccentric strengthening.
	a.	True
	b.	False
33.		contraction is one in which no change in muscle length occurs. In atrics, an example can be found in
	a.	Isometric, the kicking leg during kicks
	b.	Isometric, the standing leg during kicks
	c.	Isotonic, the standing leg during kicks
	d.	Isotonic, the kicking leg during kicks
34.	What	t defines an eccentric contraction?
	a.	Muscle fibres lengthening as they contract
	b.	Muscle fibres shortening as they contract
	c.	Stretching a muscle
	d.	No change in the length of the muscle fibre
35.	Refle	x intelligence
	a.	Is voluntary
	b.	Is an objective
	C.	Is your body's natural safety mechanism to avoid muscle and tendon injury
	d.	Moves the bones

36.	The	Golgi tendon reflex
	a.	Relaxes muscles
	b.	Is triggered by a muscle contraction
	c.	Is involuntary
	d.	All of the above
37.	Wha	t does the myotatic reflex do?
	a.	Inhibits movements when you are strengthening
	b.	Inhibits the muscle from lengthening when you are stretching
	c.	Inhibits movements when you try to contract
	d.	Inhibits movements when your muscles are cold
38.	Your	myotatic reflex, or stretch reflex,
	a.	Triggers a muscle contraction
	b.	Is a response to stretching
	c.	Protects muscles from being torn
	d.	All of the above
39.	Doin	g the splits triggers the myotatic reflex.
	a.	True
	b.	False
40.	Catc	hing a ball triggers the Golgi tendon reflex.
	a.	True
	b.	False
41.	Lack	of movement leads to
	a.	Hardening of the body's lubricating oil
	b.	Cell atrophy
	c.	Stiffness in surrounding areas
	d.	All of the above
42.		is a form of connective tissue that can be considered like a
	prote	ective web, enveloping all muscles, nerves, bones and blood vessels.
	a.	Fascia
	b.	Blood
	c.	Synovial fluid
	d.	Tendons

43.	Mito	chondria are considered	the	of a cell.	
	a.	Vacuum			
	b.	Calorie burning units			
	c.	Fat storage units			
	d.	Waste units			
44.	Our r	mitochondria are effected	d when we stop using our m	uscles.	
	a.	True			
	b.	False			
45.	The	The cardiovascular system consists of			
	a.	The cardiac muscle (hea	rt) and veins		
	b.	The aortas and ventricle	s of the heart		
	C.	The cardiac muscle (hea	rt), blood vessels and lungs		
	d.	The cardiac muscle (hea	rt), blood, and the blood ve	ssels	
46.	Essentrics helps increase our circulation and eases the workload of the heart by involving t full musculature of the body.		orkload of the heart by involving the		
	a.	True			
	b.	False			
47.	7. A muscle is made up of tens of thousands of muscle cells called			called	
	a.	Myofilaments			
	b.	Sarcomeres			
	c.	Myosin			
	d.	Actin			
48.			are controlled by the consc	ious brain.	
	a.	Skeletal muscles	•		
	b.	Involuntary muscles			
	c.	Smooth muscles			
	d.	Cardiac muscles			
49.	A joi	nt is only as flexible as its			
	a.	Strongest muscle			
	b.	Smallest muscle			
	c.	Tightest muscle			
	d.	Loosest muscle			

50.	A ty	pical spine follows a natural	which	every person.		
	a.	C curve; is the same for				
	b.	C curve; varies for				
	c.	Double S curve; varies for				
	d.	Double S curve, is the same for				
51.		provide(s) a fri	ctionless surface between bones, c	ushioning and		
	prev	venting wear on articular surfaces.				
	a.	Cartilage				
	b.	Ligaments				
	c.	Synovial fluid				
	d.	Blood				
52.		can inhibit the mov	ements of our limbs and make us fe	eel glued and		
	stiff					
	a.	Scar tissue				
	b.	Concentric training				
	C.	Atrophy				
	d.	All of the above				
53.	Liga	Ligaments and tendons are forms of connective tissue.				
	a.	True				
	b.	False				
54.	The	rate of healing is	in tendons and ligaments comp	pared to		
	mus	scles because of their	·			
	a.	Slower, range of movement				
	b.	Faster, high blood flow				
	c.	Slower, low blood flow				
	d.	Faster, range of movement				
55.	A strain is overstretching or tearing of a					
	a.	Muscle				
	b.	Tendon				
	c.	Muscle or tendon				
	d.	Ligament				

56.	A spr	rain is
	a.	Overstretching or tearing of a ligament
	b.	Overstretching or tearing of a muscle
	c.	Overstretching or tearing of a tendon
	d.	All of the above
57.	A pri	mary function of our ligaments is to
	a.	Move our joints
	b.	Lubricate our joints
	c.	Stabilize our joints
	d.	Stretch our joints
58.		n a ligament or tendon is stretched beyond its 6% capacity, it will never fully rebound or in to its original constitution.
	a.	True
	b.	False
59.	Ther	e are roughly skeletal muscles in our body.
	a.	560
	b.	650
	c.	360
	d.	206
60.		celetal muscles cross at least one joint. If they did not cross a joint they would not be to move our body parts.
	a.	True
	b.	False
61.	You h	nave joints in your body.
	a.	320
	b.	360
	c.	650
	d.	206
62.	Every	y movement, big or small, involves an agonist and antagonist muscle group.
	a.	True
	b.	False

63.	What	t is the Sliding Filament Theory?
	a.	An explanation of how protein filaments slide past each other during muscle contraction
	b.	An explanation of how tendon filaments slide along the bones
	c.	An explanation of how blood slides into a muscle filament
	d.	A theory that explains blood circulation

- 64. The Sliding Filament Theory helps explain and account for ______
 - a. Cellular movement
 - b. Large full-body movement
 - c. Concentric and Eccentric Strengthening
 - d. All of the above
- 65. The muscles of your Top Three include:
 - a. The front of your torso
 - b. The back of your torso
 - c. The sides of your torso, including shoulders, arms and fingers
 - d. All of the above
- 66. The muscles of your Big Four include:
 - a. The front of your legs
 - b. The back of your legs
 - c. The inside and outside of your legs
 - d. All of the above
- 67. Which of the following is not a section of the spine?
 - a. Cervical
 - b. Thoracic
 - c. Femur
 - d. Lumbar
- 68. Which one of the following applies to the skeletal system?
 - a. Protects organs and soft tissues
 - b. Provides support to the body
 - c. Produces a lever system for body movements
 - d. All of the above

69.	The major building blocks of muscles are two thread-like protein strands called:			
	a.	. Lactic & acid		
	b.	Myosin & actin		
	c.	Mitochondria & insulin		
	d.	The Krebs cycle		
70	\	* dans a tandan assurant?		
70.		t does a tendon connect?		
	a.	A bone to a bone		
	b.	A muscle to a muscle		
	C.	A muscle to a bone		
	d.	A ligament to a muscle		
71.	Wha	t does a ligament connect?		
	a.	A muscle to a bone		
	b.	A bone to a bone		
	c.	A tendon to a bone		
	d.	A muscle to a tendon		
72.	How	much flexibility does a tendon have?		
	a.	4% to 6%		
	b.	6% to 8%		
	c.	8% to 10%		
	d.	0%		
73.	Wha	t does Best Resting refer to?		
	a.	The muscles' starting point when you start training		
	b.	A good night's sleep for maximum performance		
	c.	The muscle's best state, after training		
	d.	The body's state after exercising for 30 minutes		
74.	A m	uscle has the ability to shorten from its Best Resting. This is a		
	cond	centric contraction.		
	a.	4-6%		
	b.	25%		
	c.	75%		
	d.	Individually varies too much to say		
		ESSENTRICS ACADEMY LEVEL 1 AGING BACKWARDS CERTIFICATION WRITTEN EVALUATION PACKAGE / 21		

75.	A mu posit	uscle has the ability to increase its lengthtion.	from its Best Resting	
	a.	4-6%		
	b.	25%		
	c.	75%		
	d.	Individually varies too much to say		
76.	Ever	ryone has the same flexibility potential.		
	a.	True		
	b.	False		
77.	A person's potential flexibility depends on their			
	a.	Genetic musculoskeletal makeup		
	b.	Age and degree of atrophy		
	c.	Type of frequent activities		
	d.	All of the above		
78.		ne musculoskeletal system, ourential flexibility. This ration is established by our		
	a.	Ratio of tendon to muscle; genetic makeup		
	b.	Ratio of ligament to muscle; genetic makeup		
	c.	Ratio of tendon to muscle; lifestyle		
	d.	Ratio of ligament to muscle; lifestyle		
79.		en an individual has long muscles and proportionately s	horter tendons, they will naturally	
	a.	Flexible		
	b.	Strong		
	C.	Athletic		
	d.	Energetic		
80.		en an individual has longer tendons and proportionatel easing their flexibility will be	•	
	a.	Increased		
	b.	Limited		
	c.	Unaffected		
	d.	Greater		

3. AGING BACKWARDS® MULTIPLE CHOICE EVALUATION

Based on the content from Miranda Esmonde-White's book Aging Backwards®

Circle one letter that best answers each
--

	Essentrics is an optimal age-reversing program because it is a
	Zero impact workout
	Gentle full-body workout that helps reverse atrophy
	Workout that improves mobility
d.	All of the above
2.	Range of motion is controlled by the muscle function of a joint.
a.	True
b.	False
2	A lack of movement puts us on a trajectory that leads to
	Hardening of the body's fascia
	Cell atrophy
	Joint stiffness
	All of the above
4.	Through we can rebalance our body by employing the full range of motion of
	all our joints which helps release tension through our connective tissue.
a.	Turnout
b.	Dynamic stretching
c.	Ballistic movement
d.	Running
5.	Unlocking the ligaments of the is so important as it begins a positive chain
	reaction that leads to increased mobility throughout the entire body.
a.	Shoulders
b.	Hips
c.	Foot and ankle
Ч	Knees

6.	is the best way to keep your fascia healthy and functioning at an optimal
	level.
a.	Massage
b.	Full body movement
c.	Rest
d.	All are important factors and dependent on individual variables
7.	Healthy fascia enables our to move effortlessly.
a.	Muscles
b.	Tendons and ligaments
	Nerves
d.	All of the above
8.	Scar tissue disrupts the flow of a muscle chain and can make us feel glued and stiff.
a.	True
b.	False
9.	Anytime there is interference with the ability to move, there is a risk of muscle atrophy, which
	speeds up the aging process.
	True
b.	False
	The force of gravity is constantly pulling us downward, which contributes towards shrinking and
	gging muscles of the spine and trunk. We can simply and effectively reverse that effect and
	gain muscle length by Pulling Up
	Lifting our arms above our head
	Essentrics Trademark exercises
	All of the above
u. /	All of the above
11.	. If you are, your fascia's will naturally harden – effectively securing ligaments,
	nerves, or tendons inside their sheath, leaving you feeling tight, stiff, and old.
a.	Over 50
b.	Over 60
c.	Sedentary
d.	Inflexible

12.	Compression from can impact your joints' natural cushions, which increase
	the chances of bone-on-bone grinding and joint damage to varying degrees.
a.	Excess body weight
b.	Lifting weights
c.	Sitting too much
d.	All of the above
13.	can contribute(s) towards ligament immobility in our feet.
	A sedentary lifestyle
	High-end running shoes
	Orthopedic footwear
	All of the above
14.	The simple task of learning to be light on your feet through the technique of Pulling Up will help prevent joint damage.
a.	True
b.	False
15.	Pain is a natural part of the aging process.
a.	True
b.	False
16.	When ankle ligaments are tight they restrict movement in the calf muscles which leads to a stif gait, likely causing aches and pains in the
a.	Knees
b.	Hips
c.	Lower back
d.	All of the above
17.	and are two of the most efficient techniques to help
	readjust congealed fascia and help relieve pain.
a.	Resistance; Isolation
b.	Movement Within a Stretch; Rotation of a Joint
c.	Pulling-up; Pulling-out
	PNF; End of the Stretch

18.	Dynamic eccentric stretching protects joints by
a.	Pulling the joints apart while strengthening them, thus helping to prevent joint damage
b.	Pulling the joints apart, creating a space for lubricating and healing synovial fluid to enter
c.	Preventing the grinding of your bones
d.	All of the above
19.	One of the reasons congealed fascia can be very painful is because it's the entry point of many
	nerves.
a.	True
b.	False
20.	Connective tissue surrounds
a.	Individual muscle cells
b.	Whole muscle groups
c.	Nerves
d.	All of the above
	A healthy level of endurance is
	Having the energy to complete life's daily tasks & not tiring after your favourite activities
	Only important if you're very active or a professional athlete
	The ability to run up the stairs
d.	Limited to cardiovascular activities such as running, cycling, swimming, hiking, etc.
22.	Power is measured by the ability to
	Lift a heavy object
	Lift your own body
	Execute movements requiring bursts of strength (ex: skiing, tennis, golf, carpentry, etc.)
	All of the above
23.	By keeping your muscles strong, active and healthy you are assisting
a.	Other systems in your body from breaking down prematurely
b.	Your overall health which can lessen how likely you are to get sick
c.	Recovery time from injuries
d.	All of the above
24	Healthy muscles help maintain a healthy cardiovascular system and reduce the rick of heart
۷4.	Healthy muscles help maintain a healthy cardiovascular system and reduce the risk of heart disease.
2	
	True
υ.	False

5. It is within our power to prevent, delay, minimize, and reverse the symptoms of poor balance. True False
5. A poor circulatory system means that
Our cells are not receiving life-giving nutrients efficiently
Toxins are not being flushed out of our system
We will most likely feel and look exhausted
All of the above
7. The digestive system is housed in the torso, therefore are especially
helpful in keeping a healthy digestive system.
Ceiling Reaches
Windmills
Pulling Weeds
All Trademark sequences
3. Poor posture collapses the spine and shortens the space required to comfortably house the digestive system and can contribute towards digestive issues such as heartburn, gas, bloating and constipation.
True
False
9. To keep good balance as you age you must
Safely challenge your balance reflexes to prevent atrophy of nerve cells
Do isometric training
Wear supportive footwear
Balance will dramatically decline with age no matter what methods you take
) has many anti-aging benefits, from increasing your energy to improving the
quality of your skin and maintaining healthy muscles.
Isometric training
Weight training
Good circulation
Running

31.	Strength conditioning focuses on challenging the muscles, while rehabilitation workouts focus
	on
a.	Rest
b.	Passive treatments
c.	Blood circulation and relaxation
d.	Deep breathing
	Essentrics helps increase our circulation and eases the workload of the heart by involving the full musculature of the body.
	True
b.	False
33.	When you let your muscular system become weak, all other systems that keep you alive are directly affected.
a.	True
b.	False
34.	When you are looking to encourage blood flow and circulation during an exercise, focus on .
a.	Concentric training
b.	Relaxation and Deep Breathing
c.	Resistance
d.	End of the Stretch
	When someone becomes accustomed to poor posture, correct posture will feel uncomfortable, effortful, and wrong at first.
	True
b.	False
36.	When you overprotect an injured area, you will
a.	Heal faster
b.	Atrophy
c.	Develop arthritis
d.	Keep injuring yourself
37.	Essentrics is a bone strengthening program.
a.	True
b.	False

38.	is a degenerative bone disease involving a wearing down of joint cartilage
	which causes bones to rub together, leading to joint damage.
a.	Osteoporosis
b.	Osteoarthritis
c.	Scoliosis
d.	Neuropathy
39.	is a condition in which bones weaken and soften due to progressive loss of
	calcium.
a.	Osteoporosis
b.	Arthritis
c.	Bursitis
d.	Osteoarthritis
40.	To deliver calcium to the bones you must
a.	Lift weights
b.	Deep breathe
c.	Exercise
d.	Drink milk
41.	Lifting weights is the only way to keep your bones strong.
a.	True
b.	False
42.	can lead to joint damage and possible need for joint replacement.
a.	Repetitive strength training
b.	High impact activities
c.	Underused muscles
d.	All of the above
43.	Declining muscle mass is a part of aging that we have absolutely no control over.
a.	True
b.	False
44.	To reverse atrophy and regain mobility you must
	Work with a trained professional
b.	Work vigorously
c.	Work gently
d.	You cannot reverse atrophy

45.	Poor posture can make us feel chronically tired and sluggish because it affects the ability of our lungs to inhale adequate quantities of oxygen.
a.	True
b.	False
46.	A loss of mitochondrial quality and activity makes it more difficult to burn the calories we
	consume.
	True
b.	False
	Ligaments attach bones together. When they shrink, they
a.	Pull the bones together, squeezing the joints
	Can become a pre-cursor to arthritis
c.	Decrease joint mobility and contribute to stiffness and pain
d.	All of the above
48.	is a reduction in muscles size (muscle wasting) due to inactivity or
	immobilization.
	Arthritis
	Atrophy
	Congealing
d.	None of the above
49.	reduces friction between bones, cushioning and preventing wear on articular
	surfaces.
a.	Ligaments
b.	Synovial fluid
c.	Cartilage
d.	Blood
50.	A person's potential flexibility depends on their
a.	Genetic musculoskeletal makeup
b.	Age and degree of atrophy
c.	Type of frequent activities
d.	All of the above