## **MIZORAM PUBLIC SERVICE COMMISSION**

## TECHNICAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF COACH GRADE - I UNDER SPORTS & YOUTH SERVICES DEPARTMENT, GOVERNMENT OF MIZORAM. APRIL, 2019

## TECHNICAL PAPER - I

			_		CALTALEK - I
Time Allowed	1:2 ho	urs			Full Marks: 150
				Attemp	ot all questions.
			All qu	estions car	rry equal marks of 2 each.
-					to ectomorph, endomorph, or mesomorph to describe the totypes" was developed by
(a) W	/.H. Sh	eldon			(b) W.Mc Ardle
(c) P	ierre de	e Couber	rtin		(d) Dr. Ken Cooper
2. Match I	List-I w	vith List-	-II and s	elect the co	rrect option using the codes given below:
		st - I			<u>List – II</u>
	1. M	arathon 1	runners		A. Endomorph body type
	2. Sh	ot putter	r		B. Ectomorph body type
		otball pl			C. mesomorph or Ectomorph body type
		lleyball 1	•		D. mesomorph body type
Code:	1	2	3	4	1 3 31
(a)	A	В		D	
(b)		A		C	
(c)	В	A	D	С	
(d)	В	A	C	D	
` '	one of t	he folloy	wing is r	not an exam	uple of a reason for participating in physical activities?
		fashiona	_		pro or a reason for paratespassing in physical activities
		w a seder	_	_	
` ′			•	-	ike you healthy
(0) 10	o realiz	e mai pii	iysicai a	cu v incs ina	ike you nearary

- (d) To follow your parents' involvement in physical activities
- **4.** Which one of the following is a component of fitness?
  - (a) Cardiovascular endurance

(b) A cool down

(c) A fundamental motor skill

- (d) Health screening
- **5.** Lack of self-esteem is often a reason for non-participation in physical activities. Which one of the following shows a lack of self-esteem?
  - (a) Having low fitness levels
  - (b) Being unable to get to the leisure facilities
  - (c) Feeling that you are not very good at sport
  - (d) Being unable to pay the swimming pool entrance fee

6.	6. A State of complete physical, mental, and social wellbeing, and not merely the absence of disease or infirmity is									
		Fitness defined by AAHPER								
	` ′	Aim of physical education given by Charles A	A Ru	cher						
		Definition of health by WHO	I. Du							
		None of these								
7	( )									
/•		t are hypokinetic diseases?  Diseases brought on at least in part by insuffi	aiant	mayamant and avaraisa						
		Diseases caused by over doing exercises	CICIII	movement and exercise						
		Diseases genetically inherited								
		None of these								
0	` /		mit.							
0.		nprove mental health of the people in a commu We must create more parks and protect ope	•							
	` ′	Keep alcohol use to a minimum and avoid ot	-							
		Encourage participation in physical fitness act		_						
	` /	All of these	uviuc	5						
Δ	( )			.1						
9.	lifesty	th one of the following pairs shows two good ende?	exam	bles of characteristics of a balanced, healthy						
	•	Nonsmoking and non-active								
		Nutritional diet and regular water drinking								
		Non-alcohol and low protein diet								
		Physically active and smoking only a limited	numb	per of cigarettes						
10	` ′	ch one of the following is not a good indicator		_						
10.		Participating regularly in physical activities		High level of income						
	(c)		` /	Feeling positive about life						
11	` /	th one of the following best indicates a balance	` ′							
11.		A balance between what is eaten and energy								
	` /	A balance of different types of protein	схрс	nded						
		A balance between what is eaten and what is	drun	ı						
	` /	A balance between fruit and vegetables	urum	N.						
12	` ′	<b>C</b>	l biab	in annhabydratas?						
12.		ch one of the following is an example of a food Fish	ı ıngıı (b)	Bananas						
	` /	Meat	( )	Eggs						
12	` '		` ′	55						
13.		rals are essential components of a balanced die ential for our body?	et. wn	nen one of the following is not a mineral that						
	(a)	Mercury	(b)	Iron						
	(c)	Calcium	(d)	Potassium						
14.	Selec	et the correct statement.								
	(a)	Athlete must consume more carbohydrate ric	h foo	d during training.						
	(b)	Athlete must consume more protein rich food	l durii	ng training.						
	(c)	A major component of food during competition	ion sh	all be fat.						
	(d)	Consuming ORS prior before competition improve player's stamina.								

15. Which one of the following is not a correct diet arrangement for performance?

(c) Eating protein rich food prior to competition (d) Drinking water before competition.

(b) Consuming glucose after competition.

(a) Carbohydrate loading before competition.

1.0	W/I : 11 :		
16.	Why is a cool down important after exercise?	(1-)	Ta immunos and
	(a) To raise resting Heart Rate	` ′	To improve speed
	(c) To make muscular contractions stronger	(d)	1 1
17.	Which one of the following training would be the		
	(a) yoga	` '	Pilates
	(c) sprinting	( )	aerobics
18.	Which one of the following is a suitable method f		
	(a) The sit and reach test		The Cooper 12 minute run test
	(c) The 30 minute sprint test		The body mass index test
19.	Which one of the following is the most appropria		
	(a) Weight training	` ′	Fartlek Training
	(c) Yoga	(d)	Aerobics
20.	Interval training is mostly used		
	(a) To increase flexibility	` '	To reduce reaction time
	(c) to improve fundamental skills	(d)	Improve muscular endurance
21.	One of the best tests to measure aerobic endurar		
	(a) Beep test	` '	1 RM test
	(c) Sit and reach test	(d)	60 M Run Test
22.	Which one of the following is a suitable test for st	_	
	(a) Tug of war	` '	Sit and reach
	(c) Stork stand test	(d)	Grip dynamometer
23.	Which one of the following is a function of prote	-	
	(a) Helps to repair tissues in the body	` ′	Helps to rehydrate the body
	(c) Helps to supply fiber to the body	(d)	Helps to break down carbohydrates
24.	Co-ordination is important for a skilled perform	ner. Wh	ich one of the following types of exercise
	would be best to improve your co-ordination?  (a) Dance exercise	(b)	Long distance running
	(c) Weight training	(d)	Sit-ups
25	Choose the correct statement on the following;	(u)	on upo
23.	(a) Training can improve reaction time of athle	ta	
	(b) Reaction time is inborn quality and training		e effect only
	(c) A person who has fast reaction with arm al		•
	(d) There is a significant relationship between r		C
26	World class sprinters are characterized by	caction	time and movement time.
20.	(a) High percentage of fast twitch muscle fiber	s in thei	ir leac
	(b) High percentage of slow twitch muscle fiber		_
	(c) Equal percentage of fast twitch and slow tw		_
	(d) None of these.		asere meers in their legs.
27	The immediate source of energy at the skeletal m	nscle is	
<b>≟</b> /•	(a) Protein		lactic acid
	(c) ADP	(d)	ATP
28	Why is warming up before exercise important?	(4)	
<b>⊿</b> ∪∙	(a) It improves flexibility	(h)	It improves heart rate
	(c) It decreases the removal of lactic acid		It slows adrenaline release
	(-) It determines the removal of mone word	(4)	

29.	Whic	h one o	of the follo	wing fitr	ness compo	onents is yoga	l li	kely to develop?
	(a)	Agility	7			(b	)	Speed
	(c)	Flexib	ility			(d	)	Cardiovascular endurance
30.	Whic	h one	of the follo	wing is a	a key conce	ept of Physica	ı1 :	Education?
	(a)	Funda	mental sk	ills of the	chosen ga	me (b	)	Pathways
	(c)	Peer p	ressure			(d	)	Creativity
31.	Incre	ase in 1	nuscle ma	ss due to	heavy wei	ght training is	s c	called–
	(a)	Musc	ular Hypot	rophy		(b	)	Muscular Hypertrophy
	(c)	Musc	ular Atropl	ıy		(d	)	Hematoma
32.	Harv	ard ste	p test is a t	est for m	easuring-			
	(a)	Leg st	rength			(b	)	Cardio vascular endurance
	(c)	Agility	7			(d	)	Speed of movement
33.	Requ	iremer	t for build	ing new	tissues for	growth of a h	uı	nan body is
	(a)	Carbo	hydrates			(b	)	Fat
	(c)	Protei	n			(d	)	Vitamin
34.	Insul	in is se	creted by					
	(a)	Liver	_			(b	)	Pituitary
	(c)	Pancr	eas			(d	)	Thyroid
35.	In 'se	et' posi	tion of a cr	ouch star	rt, the hip l	ine and shoul	de	er line are maintained in the following way:
		-			an the hip l			Shoulder line and hip line are at same level
	(c)	Hip li	ne is lower	than sho	ulder line.	(d	)	Hip line is higher than shoulder line.
36.	The C	Olympi	c motto C	itius, Alti	ius, Fortius	was coined b	οу	,
	(a)	Thom	as Bach			(b	)	Juan Antonio Samaranch
	(c)	I.O.C				(d	)	Father Henry Didion
37.	Matc	h List-	I with List	-II and so	elect the co	orrect option	us	ing the codes given below:
			List – I			-		<u>List – II</u>
		A.	Hypoxia					1. Lack of physical activity
		B.	Hypokinet	ic				2. Excessive jumping
		C.	Insomnia					3. Lack of oxygen
		D.	Achilles te	ndonitis				4. Overwork
	Code	e: A	В	C	D			
	(a)	2	3	1	4			
	(b)		1	4	2			
	(c)	4	3	2	1			
	(d)	3	2	1	4			
38.		ness tra is calle	_	raining lo	oad is gradu	ally increased	l t	o push the athlete to higher levels of strength
	(a)	The B	alance Pri	nciple		(b	)	The Recovery Principle
	(c)	The S	pecificity I	Principle		(d	)	Overload Principle
39.	The	normal	stable rest	ing state	of the bod	y is called		
	(a)	home	ostasis			(b	)	recovery
	(c)	equilib	orium			(d	)	Stable

40.	A normal resting heart rate for adults ranges from 60 to 100 beats per minute. Generally a well-trained athlete has a lower resting heart rate.									
	(a) A lower heart rate at rest implies better cardiovascular fitness.									
	(b) A lower heart rate at rest implies poor cardiovascular fitness.									
	(c) A well-trained athlete might have resting heart rate closer to 100 beats per minute.									
	(d) None of these.									
41.	Fast	twitch 1	nuscle fib	ers use a	naerobio	e metabolism to	erea	ate fuel, they are better at generating		
		speed						ndurance		
	` '	flexibil	ity			· /		oordination		
42.	` ′		ıs a high to	olerance	against f	` /				
			vitch musc		C	•	S	low twitch muscle fibers		
	(c)	Both (	a) & (b)			(d)	N	one of these		
43.	One	of the b	est weight	training	for Upp	er body is				
		Chin u	_			· ·	О	verhead press		
	(c)	Bench	press			` '		ll of these		
44.	One	of the be	est weight	training	for abdo	minal muscles is	S .			
	(a)	Chin u	р	C		(b)	Si	it up		
	(c)	Bench	press			(d)	A	ll of these		
45.	Stren	gthenin	g Exercise	es for Lo	wer Extr	emity Exercises	ma	y be		
	(a)	Bridgir	ng			(b)	S	tep ups		
	(c)	Side ly	ing Leg Li	fts		(d)	A	ll of these		
46.	Whil	e free-w	eights are	often co	nsidered	the best form of	tra	ining for building muscle, beginners may		
			multi-gym			se;				
	` '		nes are ea							
	` ′		p more ba		d coordi	nation				
	` /		c of injury							
						ry major body p				
47.								factors like genetic ability, predominance		
			oer types, a ole of Adap	-	mentai s	tate. This is calle		rinciple of Specificity		
	` ′	-	ole of Indiv			· /		rinciple of Active participation		
10					laat tha			g the codes given below:		
40.	Maic		List – I	-11 allu sc	icci ilic	correct option us	5111	List – II		
		_	Yoga traini	ng			1.	Explosive strength		
			Aerobic tra	_				Haemoglobin count		
			Altitude tra	_			3.	•		
			Plyometric	•				Flexibility		
	Code		В	C	D			-		
	(a)	4	3	2	1					
	(b)	1	4	1	2					
	(c)	2	1	4	3					
	(d)	3	4	2	1					

49.	Sphy	gmom	anometer is	used to	o measure–		
	(a)	Blood	Haemoglol	oin		(b)	Blood Cholesterol
	(c)	Blood	Pressure			(d)	Blood Volume
<b>50.</b>	Calor	ie is a	measureme	nt unit	of		
	(a)	Liquid	ls			(b)	Heat
	(c)	Solids	}			(d)	Cold
51.	Whic	h of th	e following	city wi	11 host 2020	) Summer Olyn	npics?
	(a)	Rome				(b)	Tokyo
	(c)	Istanb	ul			(d)	Barcelona
<b>52.</b>	Haem	noglobi	in is found in	n			
	(a)	Red E	Blood Corpu	ıscles (	(RBC)	(b)	White Blood Corpuscles (WBC)
	(c)	Platel	ets			(d)	Bone marrow
53.	Whic	h of th	e following	Vitami	ns is availa	ble from Sun ra	ys?
	(a)	Vitam	inA			(b)	Vitamin B
	(c)	Vitam	in C			(d)	Vitamin D
54.	Matcl	h List-	- I with Lis	t — II ar	nd select the	e correct option	n using the codes given below:
			<u>List – I</u>				<u>List – II</u>
		A.	Basketball				1. Sudden death
		B.	Kabbaddi				2. Libero
		C.	Volleyball				3. Dead ball
		D.	Wrestling				4. Lona
	Code	: A	В	C	D		
	(a)	3	4	2	1		
	(b)	3	4	1	2		
	(c)	2	4	1	3		
	(d)	1	4	3	2		
55.	Matcl			t — II ar	nd select the	e correct option	n using the codes given below:
			<u>List – I</u>				<u>List – II</u>
			Fosbury flo				1. Relay Race
			Glide techn				2. Long Jump
			Hitch Kick		~		3. Shot Put
	Code		Snatch Bat B	on Pasi C	_		<b>4.</b> High Jump
	(a)		3	2	D 1		
	(a) (b)	4	2	1	3		
	(c)	3	2	4	1		
	(d)	3	2	1	4		
56			established	_	•		
30.		. was c 1957	Staulished	111		(b)	1960
	` '	1962				(d)	1964
57	` /		racovorvia	vitol in		(u)	1707
31.		-	recovery is nuous meth			(b)	Interval training
		Fartle		ou or il	ummg	(d)	Cross country
	(0)	1 allic	IX.			(u)	C1055 Country

58.	Whic	ch exercise of the following increase agility?		
	(a)	Altitude training	(b)	Interval training
	(c)	Fartlek	(d)	speed ladder drills
<b>59.</b>	The	cardiovascular ability to sustain low intensity i	novei	ment over a long period of time is
	(a)	endurance	(b)	stamina
	(c)	agility	(d)	speed
60.	There	e are several trainings that will increase your	stamiı	na and one of the best is
	(a)	Altitude training	(b)	Interval training
	(c)	1 RM training	(d)	Plyometric training
61.	Selec	et incorrect statement.		
	(a)	Jogging helps to keep high blood pressure a	t bay.	
	(b)	Jogging is one of the oldest and most popula	ır forn	ns of aerobic exercise.
	(c)	Jogging increases speed and agility		
	(d)	Jogging Helps you Lose Weight and Reduce	s Boo	ly Fat Levels.
<b>62.</b>	Selec	et incorrect statement.		
	(a)	You will burn roughly around 150 calories for	or eve	ry mile that you go jogging.
	(b)	Jogging increases the supply of oxygen to all	parts	of the body, helping prevent some cancers.
	(c)	Jogging also strengthens the immune system	remar	kably well.
	(d)	Jogging helps to increase release of insulin b	y the	body.
63.	Selec	et incorrect statement.		
	Runn	ing on sand is a dynamic exercise which		
	(a)	Stabilizes muscles and so reduce the risk of i	njury	
	(b)	provides extra resistance to one's muscles a	nd he	p to run faster.
	` ′	Can be performed with barefoot.		
	(d)	shall be started without warm up exercises.		
64.	Selec	et incorrect statement.		
	A dyı	namic exercise		
		involves the full range of motion (ROM).		
		may need to be restricted for exercisers with	ortho	pedic injuries.
	` '	is beneficial to persons with joint disorders.		
	` /	Includes concentric-eccentric motions.		
65.		ose the incorrect statement.		
	Fartle			
	` '	is continuous training with interval training.	/ C	LID
	(b)	,		
		is associated with running, but can include all	imost	any kind of exercise.
	` '	places stress on the anaerobic systems only.		1 . 1 0
66.		ch one of the following is an example of a perfe		
	` ′	Steroid  Cook about the	` '	Alcohol
. <b>-</b>	` ′	Carbohydrate	` /	Paracetamol
<b>67.</b>	Whice flexib	ch one of the following might be included in a	ı good	exercise program to significantly improve
		Plyometric	(b)	Interval training
	` ′	Body pump	(d)	Yoga
	(-)	— J PP	(4)	O <sup>m</sup>

68.	Whic	h one	of the following is a health screening tes	t?	
	(a)	Sit a	nd reach test	(b)	30m sprint test
	(c)	Bloo	d pressure test	(d)	Cooper's 12 minute run test
69.	Why	is a co	ool down important after exercise?		
	(a)	To ra	ise resting Heart Rate	(b)	To improve speed
	(c)	To m	ake muscular contractions stronger	(d)	To speed up the removal of lactic acid
70.	Whice		of the following would you not take into	accou	ant when assessing someone for readiness to
	(a)	Fami	ly history of illness	(b)	Age of participant
	(c)	Histo	ory of sports success	(d)	Fitness level of participant
71.	Whic	h one	of the following is an example of the rol	e of a	referee in a physical activity?
	(a)	Appl	ying rules fairly		
	(b)	Reco	ording performance statistics		
	(c)	Ensu	ring that all players have a good level of	fitnes	SS
	(d)	Supe	rvising the warm up		
72.	Arrai	nge th	e following sequence for management of	pain	
		I.	Compression	]	II. Ice
		III.	Rest	I	V. Elevation
	` ′		I, IV, I		III, II, I, IV
	(c)	I, III	, II, IV	(d)	IV, I, II, III
73.	Selec	t inco	rrect statement.		
	Bene	fits of	weight training include		
	(a)	Incre	eased strength, muscle endurance.		Increased flexibility and reaction time.
	(c)	Impr	oved cardiovascular health.	(d)	decreased body fat, blood pressure.
74.	For b	est res	sults in Nautilus exercises the following p	orinci	ples will be followed
	(Cho		correct answers)		
			Train no more than three times a week.		
			Do not vary the workouts.		
			For each exercise do more than 25 repo		
	( )				ng around the workout area 4 to 5 minutes.
	` /	I and		` /	III and IV
	` ′	I and		(u)	II and III
/5.		_	s of circuit training are:		
	(Cho		correct answers)		
			develops strength and endurance.		
			exercises require no equipment.	1 14	1 - 641411-4
			can be adjusted to suit age, fitness and		
	(0)	I and	less space required to set up the circuit		cises. III and IV
	(a) (c)	I and		` /	II and III
	(0)	1 allu	. 111	(u)	II wild III