Test Booklet No This booklet consists of 100 questions and 11 printed pages.		
RGUCET/2024//_	Series	NIL

RGUCET 2024 Common Entrance Test, 2024 MASTER OF SCIENCE (PHYSIOLOGY)

Full Marks: 100	Time: 2 Hours
Roll No.	
Day and Date of Examination:	<u> </u>
Signature of Invigilator(s)	
Signature of Candidate	
Con and Instructions	

General Instructions:

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

- 1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- 2. Candidate must write his/her Roll Number on the space provided.
- 3. This Test Booklet contains 100 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark. There shall be negative marking of 0.25 against each wrong attempt.
- 4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
- 5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall within one hour thirty minutes.
- 6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
- 7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
- 8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
- 9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	Which Indian cr	ricketer has the ni	ckname "Master Bl	aster"?	ь
	a) Rahul	b) Sachin	c) Virat Kohli	d) MS Dhoni	Sachin
	Dravid	Tendulkar			Tendulkar
2	Who is known a	s the "Flying Sik	h" of India?		С
	a) Sachin	b) Kapil Dev	c) Milkha Singh	d) Dhyan	Milkha Singh
	Tendulkar			Chand	_
3	Which of the fol	llowing is not a fu	unction of the huma	n skin?	d
	a) Protection	b) Regulation	c) Sensation	d) Blood	Blood
		of body		circulation	circulation
		temperature			
4	Which of the fo	llowing rights wa	s described by BR A	Ambedkar as the	c
	heart and soul of	f the Constitution	?		
	a)Right to	b)Right to	c)Right to	d)Right to	Right to
	equality	property	constitutional	education	constitutional
			remedies		remedies
5	The first woman	to climb mount	Everest was	•	С
	a)Marie Jose	b)Florence	c)Junko Tabei	d) Jackie	Junko Tabei
	perec	Griffith Joyner		Joyner Kersee	
6	Choose the odd	•	•	· •	d
	a) Earth	b) Mercury	c) Venus	d) Moon	Moon
7	/		substituted for 'Wo	/	d
	meaning but sin	nilar in sound'			
	a) Synonym	b) Acronym	c) Antonym	d) Homonym	Homonym
8		e the music' mean		· ·	ь
	a) Complete	b) be punished	c) For a short	d) for a long	be punished
	loss	, 1	time	time	1
9	Cow: Mammal:	:Housefly: ?			d
	a) Reptile	b) Herbivore	c) Carnivore	d) Insect	Insect
	, -	ŕ			
10			ase to complete the		ь
	I persuaded the	boys the	room before the tea	cher entered.	
	a) leave	b) to leave	c) left	d)leaving	to leave
11	What is the period	meter of a rectang	le with length 6 cm	and width 4 cm?	С
	a) 10	b) 12	c) 16	d) 24	16
12	Which of the following	llowing is a ration			c
	a)π	b)√2	c)1/3	d) e	1/3
13	If 11 (170)16, 1	$1(\overline{203})$ 19, then va	lue of 17(?)18 will	be <u> </u>	ь
	a) 200	b) 300	c) 400	d) 250	300
14	Look at this ser	ries: 53, 53, 40, 4	40, 27, 27, What	number should	ь
	come next?				U U
	a) 12	b) 14	c) 27	d) 34	14
15	The total ages of	f Amar, Akbar and	Anthony is 80 Yea	rs. What was the	
		es three years ago			a
	a) 71 years	b) 72 years	c) 74 years	d) 77 years	71 years
16	'Phrygian caps' which event?	, which was ann	nounced recently, is	s the mascot of	a
	a) Paris 2024	b)Los Angeles	c)2026 Winter	d)2030 Winter	Paris 2024
	Olympics	2028	Olympics Whitel	Olympics	Olympics
		Olympics	Olympics		
17	Which country !	v i	orld Cup 2022'?	<u> </u>	b
* ′	a) India	b) Qatar	c) Australia	d) Argentina	Qatar
	1 4) 111414	~, ~u.u.i	-) / Iusuuiiu	a) in genina	1 Kumi

18	Which company Men's World Cu	b			
	a) Byju's	b)Tata Steel	c)Reliance Industries	d) Jio	Tata Steel
19	What is the then	ne of Internationa	al Day of Yoga (IDY	7) 2024?	d
	a) Yoga for Heart	b)Yoga and Science	c) Yoga for Humanity	d) Yoga for self and society	Yoga for self and society
20	Which social mrights report?		as released its firs	t annual human	b
	a)Twitter	b) Meta	c)LinkedIn	d)Snapchat	Meta
21		on, memory, and	ses on the study of r problem-solving?	-	ь
	a) Behavioral psychology	b) Cognitive psychology	c) Psychoanalytic psychology	d) Humanistic psychology	Cognitive psychology
22	What term deso		l state that activate	es behavior and	a
	a) Motivation	b) Emotion	c) Personality	d) Intelligence	Motivation
23	/	llowing cognitive	processes involve	nemory?	
	B. Emotion C. Intellige D. Cognition	nce			d
		b) Only B and	c) Only C and D	d) Only A and D	Only A and D
24	Given below are the other is labe A: What is the p B: Quality contrand regulations In the light of the options give	a			
	a) Both the assertion and justification are true, and the justification explains the assertion	assertion and justification are true, but the justification	c) The assertion is true, but the justification is false	d) The assertion is false	Both the assertion and justification are true, and the justification explains the assertion
25	A. Carboh B. Protein	ydrates	i. Regulation processes and function ii. Storage of	immune	С
			insulation		

	C. Fats		iii. Providing en	ergy to the	
			body		
	D. Vitamin	ıs	iv. Building and re	iv. Building and repairing body	
			tissues		
	a) A-iii, B-ii,	b) A-ii, B-i, C-	c) A-iii, B-iv, C-	d) A-ii, B-iii,	A-iii, B-iv, C-
	C-i, D-iv	iii, D-iv	ii, D-i	C-i, D-iv	ii, D-i
26	Which of the fol	llowing is NOT a	mood disorder?		С
	a) Unipolar	b) Bipolar	c) Schizophrenia	d) Depression	Schizophrenia
	disorder	disorder			Schizophichia
27	Which of the fol	llowing are symp	toms of schizophrer	nia?	
	A. Hallucination				ь
	B. Mood swings	3			_
	C. Delusions				
	D. Excessive wo) O 1 A 1D	1) 3.7	
		, ~	c) Only A and B	d) None of the	Only A and C
20	D	<u>C</u>	.1 1 .1 1	above	
28	which type of behavior?	learning occurs	through the observ	ation of others'	d
	a) Operant	b) Classical	c) Insight	d) Social	Social
	conditioning	conditioning	learning	learning	learning
29			characteristic prope		Icarming
29	quantity?	ionowing is a c	maracteristic prope	ity of a vector	b
	a) It has only	b) It has both	c) It remains	d)It can be	It has both
	magnitude	magnitude and	constant in	measured in	magnitude
	magintude	direction	motion	kilograms	and direction
30	Which personal		he degree to which		
	to new experien		no angree or winem	a poison is open	d
	a)	b) Neuroticism	c) Agreeableness	d) Openness	Openness
	Extraversion				Openicss
31	Which of the fol	lowing is NOT a	symptom of depres	sion?	ь
	a) Persistent		c) Loss of		Increased
	sadness	energy levels	interest in	worthlessness	energy levels
			activities		
32			s has both magnitud		b
2.2	a) Scalar	b) Vector	c) Distance	d) Speed	Vector
33			nptoms of unipolar	disorder (major	
	depressive disor	der)?			
	A Domaintant as	1 _{magg}			_
	A. Persistent sad B. Loss of interes				С
	C. Feelings of w D. Increased end				
	a) Only A and		c) Only A and B	d) None of the	
	D Only A and	C	C) Only A and B	above	Only A and B
34		e two statements:	one is labelled as A		
		lled as B: Justifi		L. LESSE HOR WILL	
		27 3 45 411	/- +		
	A: The moment	of inertia depend	s solely on the shap	e of the object.	d
		1	, _T	J	
	B: The moment	of inertia dependa	s on the distribution	of mass relative	
		tation.			

	In the light of the				
	_		nts. choose the corr	ect allswer from	
	the options give		\ m	1) 771	
	a) Both the	b) Both the	c) The assertion	d) The	
	assertion and	assertion and	is true, but the	assertion is	
	justification	justification	justification is	false	
	are true, and	are true, but	false		The assertion
	the	the			is false
	justification	justification			15 14150
	explains the	does not			
	assertion	explain the			
		assertion			
35	Which of the fol	lowing represents	s an example of elas	tic deformation?	С
	a) Bouncing of	b) Dropping a	c) Stretching a	d) Swinging of	Stretching a
	a basketball	feather	rubber band	a pendulum	rubber band
36	Which of the fo	llowing is a vecto	r quantity?		d
	a)	b) Distance	c) Speed	d)	D: 1
	Temperature	,	, 1	Displacement	Displacement
37		processes are inv	olved in problem-sc	1	
,	A. Learning	Processes with inv	or, co in proorein so		
	B. Emotion				d
	C. Intelligence				ű
	D. Cognition				
	a) Only A and	b) Only A and	c) Only A and B	d) None of the	None of the
	D Only A and	C C	c) Only A and B	above	above
38		ribas tha product	of an object's mass :		b
36				•	_
20	a) Force	b) Momentum	c) Work	d) Energy	Momentum
39	What is the SI u	1) M.	1) 17.1	a
	a) Newton (N)	b) Joule (J)	c) Meter per	d) Kilogram	
			second squared	(kg)	Newton (N)
40	XXII: 1 C.1 C.1	11	$\frac{(m/s^2)}{s}$		
40		llowing is a unit of		1) ***	C
	a) Newton	b) Joule	c) Kilogram	d) Watt	Kilogram
			meter per second		meter per
					second
41			hange of displaceme		b
	a) Force	b) Velocity	c) Acceleration	d) Work	Velocity
42			ts about projectile m		a
	a) Horizontal	b) Vertical	c) The	d) Gravity	Horizontal
	velocity	velocity	projectile's	does not affect	velocity
	remains	remains	velocity is	projectile	remains
	constant	constant	constant	motion	constant
43	Scalars and vect	tors are differentia	ated based on:		
	A. Whether they	d			
	B. Whether they	have magnitude	only		u
	C. Whether they	have both magn	itude and direction		
		are stationary or			
	•			d) Only C	0.1.0
	B	Ď	,	, , ,	Only C
44		two statements:	one is labelled as A	: Assertion and	1
1 1					d
	the other is labe	ned as B: Justin e	cation		

	A: The potential	A: The potential energy of an object depends on its mass and velocity.					
		B: Potential energy is the energy associated with the position of an object relative to other objects.					
	In the light of the options give		nts. choose the corr	ect answer from			
	a) Both the assertion and justification are true, and the justification explains the assertion	assertion and justification are true, but the justification does not explain the assertion	is true, but the justification is false	d) The assertion is false	The assertion is false		
45	What type of en	ergy is stored in a	compressed spring	?	a		
	a) Potential	b) Kinetic	c) Thermal	d) Chemical	Potential		
	energy	energy	energy	energy	energy		
46		ribes the energy s	tored in an object d		a		
	a) Potential	b) Kinetic	c) Mechanical	d) Thermal	Potential		
	energy	energy	energy	energy	energy		
47		on, the centripetal					
	A. In the direction of motion B. Perpendicular to the direction of motion C. Opposite to the direction of motion D. Tangential to the circular path						
	a) Only A and B	b) Only C and D	c) Only B	d) Only C	Only B		
48		ollowing principle mains constant o	es states that the tover time?	otal energy in a	c		
	a) Law of	b) Law of	c) Law of	d) Law of	Law of		
	inertia	conservation	conservation of	universal	conservation		
		of momentum	energy	gravitation	of energy		
49			possess kinetic ener		c		
	rubber band	book on a table	c) A moving car	d) A ball at the top of a hill	A moving car		
50	What property of after being deform		ws it to return to it	s original shape	a		
	a) Elasticity	b) Plasticity	c) Ductility	d) Brittleness	Elasticity		
51				tional equivalent			
	Which of the following of linear momen		represents the rotar	201111	c		
	of linear momer a) Angular		c) Angular	d) Moment of	Angular		
	of linear momer a) Angular velocity	b) Torque	c) Angular momentum	d) Moment of inertia			
52	of linear momer a) Angular velocity What term desorrotational motion	b) Torque cribes the resistan?	c) Angular momentum nce of an object to	d) Moment of inertia changes in its	Angular momentum c		
	of linear momer a) Angular velocity What term desc	b) Torque cribes the resistan? b) Angular	c) Angular momentum nce of an object to	d) Moment of inertia changes in its	Angular momentum c Moment of		
	of linear momer a) Angular velocity What term desorotational motio a) Torque	b) Torque cribes the resistan?	c) Angular momentum nce of an object to c) Moment of inertia	d) Moment of inertia changes in its	Angular momentum c		

	A Engravage	ot ha avantad av d	astroxad		
	B. Energy can o	ot be created or do	csuoyeu		
		nly be destroyed t conserved in nat	lire		
		b) Only C	c) Only A and B	d) Only C and	
	a) Only A	b) Only C	c) Only A and B	D Only C and	Only A
54	Given below are	two statements:	one is labelled as A		
34		lled as B: Justifi		. Assertion and	
	the other is lace	nea as D. Justin	cation		
	Δ· The conser	vation of energy	principle applies	only to closed	
	systems.	vacion of energy	principle applies	omy to closed	
	systems.				a
	B. The conserva	ntion of energy pr	inciple states that th	e total energy of	a a
		em remains consta	•	e total energy of	
	an isolated system				
	In the light of the	ne above stateme	nts. choose the corr	ect answer from	
	the options give				
	a) Both the		c) The assertion	d) The	D 41 41
	assertion and	/	is true, but the	/	Both the
	justification	justification	justification is	false	assertion and
	are true, and		•		justification
	the	the			are true, and
	justification	justification			the
	explains the	does not			justification
	assertion	explain the			explains the
		assertion			assertion
55			s an example of circ		ь
	a) A ball in the	,	c) A moving car	d) A falling	A rotating
	air	ceiling fan		apple	ceiling fan
56		following nutrien	ts is the body's pri	imary source of	c
	energy?	Γ	Γ	T	
	a) Protein	b) Fat	c) Carbohydrate	d) Vitamin	Carbohydrate
57	Which of the fo	llowing statement	ts about force is true	e?:	
		.•.			
	A. It is a scalar	-			d
	_	=	ove in a straight line	:	
	C. It is measured	_			
	D. It is a vector		a) C 1 D	4) O.:1 D '	
	a) All are true	b) B, C and D	c) C and D are	d) Only D is	Only D is true
50	What is the mai	are true	true	true	
58			kidneys in the body		С
	a) Digestion	b) Regulation of blood	c) Filtration of blood	d) Production of insulin	Filtration of
		pressure	01000	or msulfi	blood
59	Which of the fo	c			
33	a) Force	b) Velocity	c) Mass	d)	C
	a) Force	o velocity	C) 1V1033	Acceleration	Mass
60	What is the num	ose of personal h	l nygiene for food har		b
00	a) To enhance	b) To prevent	c) To reduce	d) To increase	To prevent
	taste	food	cooking time	shelf life	food
	lasic	contamination	COOKING UING	SHOII IIIC	contamination
		Comamination			Comammation

61	What is the te appearance or to	c			
	a) Nutrient	b) Preservative	c) Additive	d) Antioxidant	Additive
62	/	,	is caused by a defic	/	
	B12?	C	J	,	d
	a) Rickets	b) Scurvy	c) Beriberi	d) Pernicious	Pernicious
				anemia	anemia
63	Elasticity is the	property of a mat	erial to:		
	A. Attract other	•			ь
		nation under stres	SS		
	C. Increase its v				
	D. Decrease its	b) Only B	c) Only A and B	d) Only C and	
	a) Only A	b) Only B	c) Only A and B	D Only C and	Only B
64	Given below are	e two statements:	one is labelled as A	: Assertion and	
	the other is labe	lled as B: Justific	cation		
	A: In projectile	motion, the path	followed by an ob	ject is a straight	
	line.				
					d
	_		the simultaneous		
	horizontal and v	ertical directions	under the influence	of gravity.	
	In the light of the				
	the options give		nts. choose the corr	ect answer from	
	a) Both the		c) The assertion	d) The	
	assertion and	/	is true, but the	,	
	justification	justification	justification is	false	
	are true, and	are true, but	false	14150	
	the	the	1415		The assertion
	justification	justification			is false
	explains the	does not			
	assertion	explain the			
		assertion			
65	When a car is pa	arked at the top of	a hill, which form	of energy does it	
	possess?				a
	a) Potential	b) Kinetic	c) Mechanical	d) Elastic	Potential
	energy	energy	energy	energy	energy
66			source of dietary fil		d
	a) Milk and	/	c) Flesh foods	d) Fruits and	Fruits and
	milk products	millets	and eggs	vegetables	vegetables
67	The moment of	inertia of an obje	ct depends on its:		
	A M				
	A. Mass and sha				a
	B. Density and				
	C. Length and w D. Temperature				
	a) Only A	b) Only B	c) Only A and B	d) Only C and	
	a) Only A	o) Only B	c) Only A and B	D Only C and	Only A
68	Which of the fo	llowing is a symn	tom of lactose intol	_	a
		5 " = J ···· P			

	a) Diarrhea after consuming dairy products	b) Excessive thirst	c) Brittle nails	d) Hair loss	Diarrhea after consuming dairy products
69	What type of mo	otion is exhibited	by a spinning table	tennis ball?	С
	a) Linear motion	b) Circular motion	c) Rotational motion	d) Vibrational motion	Rotational motion
70		m for a condition extended period	n caused by insuff?	ficient intake of	a
	a) Malnutrition	b) Over nutrition	c) Obesity	d) Scurvy	Malnutrition
71	Statements:				
	B. Ribosomes and C. All bacteria a	re harmful to hun	producing energy i		a
	a) True, False, False, False	b) True, True, False, False	c) False, False, True, True	d) True, False, True, False	True, False, False, False
72	Given below are the other is labe. A: The human b. B: Shivering is attempt to mai conditions. In the light of the options give	a			
	a) Both Assertion and Reasoning are true, and Reasoning is the correct explanation of the Assertion.	b) Both Assertion and Reasoning are true, but Reasoning is not the correct explanation of the Assertion.	c) Assertion is true, but Reasoning is false.	d) Assertion is false, but Reasoning is true.	Both Assertion and Reasoning are true, and Reasoning is the correct explanation of the Assertion.
73	Statements: A. The human b B. The large in carbohydrates. C. The small int D. The human s	d			
	a) True, False, False, False	b) True, True, False, False	c) False, False, True, True	d) True, False, True, True	True, False, True, True
74	What is impossi	ble to change who	en a body is in the a	ir-	b
	a)Movement of the body	b)Mass of the body	c)Shape of the body	d)Position of the body	Mass of the body

75	Success in long	jump extremely r	relies on-		ь
	a)Stride	b)speed	c)Leg strength	d)Muscle	speed
	frequency			power	
76	Planter flexion 1	novement only or	ccur in-		d
	a)Thumb	b)Elbows	c)Knee	d)Ankle	ankle
77	Endo skeleton in	c			
	a)Bones only		-	d)None of the	Bones and
		skin, hair and nails	cartilages	above	cartilages
78	Muscles contrac	t more strongly in	f they are put on-		d
	a)Flexion	b)Extension	c)Alert	d)Stretch	stretch
79	Diving in kho-k with-a	tho need massive	amount of timing	and speed along	a
	a)Accuracy	b)Balance	c)Muscle tone	d)Movement	accuracy
80	'Zygomatic' bor	ne is present in			d
	a)Upper	b)Lower	c) Vertebral	d)Skull	Skull
	extremities	extremities	column		
81	What kind of sk	ills does javelin t	hrow require-		Ъ
	a)Throwing	b)Projecting	c)Propelling	d)Lifting	Projecting
82	Pulls a part towa	ard the midline of	the body is-		d
	a)Flexion	b)Extension	c)Abduction	d)Adduction	adduction
83	Bending of head	l towards right or	left side of the show	ılder is	С
	a) Extension	b) flexion	c) Lateral flexion	d) Lateral	Lateral
				extension	flexion
84	Synovial joints	are			b
	a) Slightly	b) Freely	c) Both (a) and	d) None of the	Freely
	movable	movable	(b)	above	movable
85	Study of joints i	s called			d
	a) Kinesiology	b) Biology	c)Anthropometry	d) Arthrology	Arthrology
86	'Hunch back' is	also known as			d
	a) Back pain	b) scoliosis	c) lordosis	d) kyphosis	Kyphosis
87	Largest bone in	the human body	is		a
	a) Femur	b) hummers	c) Tibia	d) fibula	Femur
88	Which of the fo	llowing is a ioint	of reciprocal innerv	ations?	ь
	a) Pivot joint	b) Saddle joint	c) Condyloid	d) Hinge joint	Saddle joint
	, ,	,	joint	, , ,	
89	Imaginary line p	passing laterally f	rom one side to other	er is called	С
	a) Sagittal axis	b) sagittal plane	c) vertical axis	d) lateral axis	vertical axis
90	What type of moduration activity	uscles is capable	of resisting fatigue i	n a long	a
-	a) Slow-twitch	b)Fast Twitch	c)Deltoid	d)Both (b) and	Slow-twitch
	,	ŕ	C)Denoid	(c)	
91	Pedograph is us				b
	a)Hunch back	b)Flat foot	c)Knock knees	d)Bow legs	Flat foot
92	What is the nam	1	to measure force?		Ъ
	a) Joule	b) Newton	c) Watt	d) Kilogram	Newton
93		n used to describe	the change in posit	ion of an object	b
	over time?				

	a) Distance	b)	c)Velocity	d)Acceleration	Displacement
		Displacement			
94	A dynamometer	measures			С
	a)Velocity	b)Acceleration	c)Force	d)Pressure	Force
95	On 'SET' comm	nand the sprinter i	s in		b
	a)Stable	b)Unstable	c)Neutral	d)None of the	Unstable
	equilibrium	equilibrium	equilibrium	above	equilibrium
96	Which among th	ne following is an	example of Law of	f Inertia	d
	a)Starting in	b)Starting in	c)Starting in	d)All of the	All of the
	throwing the	sprinting	rowing	above	above
	hammer				
97	'Lumbar' verteb				c
	a) 6 in number	b) 7 in number	c) 5 in number	d) 4 in number	5 in number
98	The specific fun	ection of tarsal bo	ne is		Ъ
	a) Protection	b) Gives	c) Act as lever	d) None of the	Gives
		strength		above	strength
99	What is the prin biomechanics?	nary purpose of a	kinetic chain in spo	orts	a
	a) To optimize	b) To reduce	c) To increase	d) To enhance	To optimize
	force	the impact	the range of	the body's	force
	generation by	force on joints	motion in	metabolic	generation by
	coordinating	during landing	athletic	response to	coordinating
	body segment		movements	exercise	body segment
	movements				movements
100		nula for calculating	<u>, c</u>	<u>, </u>	a
	a) Force =	b) Force =	c) Force =	d) Force =	Force = mass
	mass ×	mass ÷	acceleration ÷	mass +	× acceleration
	acceleration	acceleration	mass	acceleration	