RET/13/Test B

610

Kriya Sharir

				Question	Booklet No	••••••••••••••••••••••••••••••••
	(To be f	filled up by th	e candidat	e by blue/bl	ack ball-poin	t pen)
Roll No.			9			痰
Roll No. (W	rite the digi	ts in words)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Serial No. o	of OMR Ans	wer Sheet				
Day and Da	ite		****************			ure of Invigilator)

INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

- 1. Within 10 minutes of the issue of the Question Booklet, Please ensure that you have got the correct booklet and it contains all the pages in correct sequence and no page/question is missing. In case of faulty Question Booklet, bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
- 2. Do not bring any loose paper, written or blank, inside the Examination Hall except the Admit Card without its envelope.
- 3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided.
- 4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
- 5. On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
- 6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet No. on the Question Booklet.
- 7. Any changes in the aforesaid-entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
- 8. This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.
- 9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- 10. Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).
- 11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
- 12. Deposit both OMR Answer Sheet and Question Booklet at the end of the Test.
- 13. You are not permitted to leave the Examination Hall until the end of the Test.
- 14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

Total No. of Printed Pages: 15

FOR ROUGH WORK

Research Entrance Test – 2013

No. of Questions: 50

Time: 2 Hours

Full Marks: 200

Note: (i) This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.

- (ii) Attempt as many MCQs as you can. Each MCQ carries 3 (Three) marks. 1 (One) mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than one alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.
- (iii) Answer only 5 Short Answer Questions. Each question carries 16 (Sixteen) marks and should be answered in 150-200 words. Blank 5 (Five) pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

1.	Which one is used	to measur	e length ?				39
	(1) Payya Mana	(2) Paut	ava Mana	(3)	Druvaya Mana	(4)	Nishpava
2.	Melting temperatu	re of silver	is?				¥
¥8	(1) 232°C	(2) 419°	C	(3)	960°C	(4)	1063°C
3.	Bulb of onion is mo	odification	of?				
	(1) Root	(2) Stem	8	(3)	Radical	(4)	Plumula
4.	Movement of food	through o	esophagus i	is d	ue to?		
	(1) Lubrication of	saliva		(2)	Peristalsis		
	(3) Gravitational p	ull		(4)	External pressu	re	
5.	The breakdown of place in?	pyruvate	to give car	rbo	n dioxide, water	r an	d energy takes
ä	(1) Cytoplasm	(2) Mito	chondria	(3)	Chloroplast	(4)	Nucleus
6.	The autotropic mod	de of nutri	tion require	s?			
	(1) Carbon dioxide	and wate	r	(2)	Chlorophyll	100	
	(3) Sunlight				All of above thr	ee	
7.	Where is bile produ	iced ?					
	(1) Gall bladder	(2) Blood	i i	(3)	Liver	(4)	Spleen
8.	The correct pathwa	y of blood	in circulato	ry s	system is ?		
	(1) Atria → ventrio			93			
	(2) Ventricles \rightarrow at	ria → vein	s → arteries	3	16		
	(3) Ventricles \rightarrow ve	$eins \rightarrow arte$	ries → atria	1			
	(4) Veins → ventrie	cles → atri	a → arteries	3	186	i i	
9.	How does light nor	mally trav	el ?		ij.	;	
	(1) In concentric cir	rcles	((2)	In a straight line	•	
	(3) Always toward	s a dark ar	ea ((4)	In a curved line		
10.	Light travels fastest	through v	which of the	foll	lowing material	?	
	(1) Diamond	(2) Wate	50.5 PK 5.50			(4)	Air
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	27 AND W			
11.	Fast muscle fibers have:			
	(1) More extensive blood vessel s	stem and capill	aries to supply extra amount	
	of oxygen		20	
	(2) Extensive sarcoplasmic retical	lum for rapid	release of calcium ions to	額
	initiate contraction	•	8	
	(3) Small fibers		*	
		itochondria	¥	
	(4) Greatly increased number of n	itocitoriaria		
12.	Special type of CNS ischemic resp	onse that results	from the increased pressure	
	of the cerebro spinal fluid around	he brain in the c	ranial vault :	
	(1) Cushing Reaction		ng's Syndrome	
	The state of the s	(4) Atrial		
	(3) Vasovagal attack	(4) / 111141	3.	
13.	The normal dead space air in your	g adult man is a	bout:	
# : 0 # : 0 # :	(1) 150 ml (2) 250 ml	(3) 500 m		
		5 V		
14.	In adipose tissue, activity of hor	none sensitive l	ipase is increased by all the	
	followings except:			
1.6	(1) Duke	(2) Ivy		
	(3) Tourniquet	(4) Rees-l	Ecker method	3
			. 8	
15.	तन्यङ्गा बलवन्तः स्निग्धवर्णस्वराः स्थूलदीर्धः	तसन्धयश्च ।		
	ते दीर्घायुषो बलवन्तः श्रुतवित्तविज्ञानापत्यर			
	(1) Kapha Vriddhi	(2) Mazz	a Saar Individuals	
	(3) Meda Saar Individuals	(4) Mans	a Saar Individuals	
	32 187	У 1	Dashamunatini Vavanunatini	p (8)
16.	The description of Jatiprasakta,	Kulaprasakta, L	Desitatiupatitii, vayottuputiti	e je
	and Pratyatmaniyata Prakriti is as	ailable in :	of Col	
	(1) Charaka Indriya Sthana	1284 - 88	uta Sharir Sthana	
	(3) Charaka Sharir Sthana	(4) Chara	aka Sutra Sthana	
:	The donor plasma is tested agains	the red cells of	the recipient for the:	20
17.		(2) Mino	r cross match	
20	(1) Major cross match	200 CO	7.0	
	(3) Bleeding Time	(4) Clotti	- The state of the	
18.	दु:खबहुलताऽटनशीलताऽधृतिरहङ्कार आन	तेकत्वमकारूण्यं दम	भो मानो हर्षः कामः क्रोधश्च।	
	Which one of the following have			
	(1) Rakta Saar Purush	(2) Raias	ika Purush	
		100 100 100 100 100 100 100 100 100 100	ika Purush	
	(3) Mazza Saar Purush		P. T. C).
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	4	48		
			92	

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19.	अम्लशिशिरप्रीति, सिराशैथिल्यरूक्षताः are the fe	atur	es of :
	(1) Rasa Kshaya	(2)	Shukra Kshaya
	(3) Rakta Kshaya	27702	Pitta Kshaya
20.	स्वपनं कटयाः प्लीहो वृद्धिः कृशांगता are the fe	atur	es of ·
	(1) Meda Kshaya		Mazza Kshaya
	(3) Shukra Kshaya		Asthi Kshaya
0.4	स्तब्धगुरुगात्रता वातशोफो वर्ण भेदो ग्लानिस्तन्द्रा		
21.			
	(1) Vata Vriddhi		Ojo Vyapada
27	(3) Ojo Visransa	(4)	Pureesha Vriddhi
22.	Which one of the following is not the fe	atur	e of Srotodushti ?
	(1) Sanga	(2)	Siragranthi
	(3) Vimargagamana	(4)	Dhamanishaithilya
23.	The 'blood vessel diameter dependent called:	red	luction in the viscosity of blood is
	(1) Fåhraeus-Lindqvist effect	(2)	Windkessel Effect
	(3) Bohr Effect	(4)	Countercurrent mechanism
24.	Hemorheology is the study of:		9
	(1) Color properties of blood cells		
	(2) Clotting properties of blood		
	(3) Flow properties of blood and its ele	men	te
	(4) Immunity	****	
25.		L MITEL	
20.	How do you transliterate the term fall Alphabet of SanskritTransliteration?	ग्यारा।	according to the International
	(1) Kriyā Sārīra	(2)	Kriyaa Shaareera
283	(3) Kriya Sharira		Kriy āśārīra
26.	The correct version of the missing p		TO THE STATE OF STATE
	रसधातुरह विक्षपाचितकर्मणा		-
	(1) युगपत् स्रवतोजस्रं देहे विक्षिप्यते सदा		युगपत सर्वतोजस्रं देहे विक्षपते सदा
	(3) युगपत सर्वतोजस्रं काये विक्षिप्यते सदा	(4)	युगपत् सर्वतोऽजस्रं देहे विक्षिप्यते सदा
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is

		96	N 25	
				70
		8		
		40		
27.	Following is <i>not</i> true about hu	man insulin :	1881 1880	
	(1) It increases glucose uptake	by the cells	3	
	(2) It is composed of two poly	peptide chains: chain A	has 21 amino acids ar	ıd
	chain B has 30 amino acids		Back ^a	
	(3) It reduces potassium uptak		read	
	(4) It increases amino acid upt	ake by the cells	in the second of	
20	Prominent U waves in ECG ma			
28.	(1) First degree AV Block, Sick	70.010	-1. ,	
	(2) Hypokalemia, Hypercalcer		:::::::::::::::::::::::::::::::::::::	
	(3) Hyperkalemia, Hepocalcer		PT F	
	(4) Second degree AV Block, I		K/F	
	(a. 40)			•
29.	You are studying the heart rat	e variability after exercis	se in people belonging	to Sif
,	different Prakriti. Which statis	to Prokriti or not?	compare means to see	; 11
	the heart rate varies according			8
	(1) Independent samples T Te	5t		
	(2) One way ANOVA	Λ	8 8 T	
	(3) Repeated measure ANOV.(4) Multivariate analysis of va		α,	
30.	"Samāna Vāyu brings Rasa tov			5
	(1) Caraka Samhitā	(2) Bhāvapral		
	(3) Śārngadhara Samhitā	(4) Suśruta Sa	amhitā	
	The following statement is the	contribution of which co	ommentator?	
31.	"The term 'Rasa' stands for a	ll the fluids that flow in	n the body and include	les
ş	even the fluids such as Rudhin		K	22
	(1) Cakrapāņidatta (2) Dalhl		(4) Indu	
			190	
32 .				
	(1) Friedrich Miescher in 1869			200
	(2) Francis Crick, James D. W		ins in 1953	8
	(3) Rosalind Franklin in 1953			
	(4) Erwin Chargaff in 1952	: :		S#
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		ation Warts		D 8 20
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33.	Mi	chael Servetus is known for his	discover	ry of:
	(1)	Systemic circulation	(2)	Pulmonary circulation
	(3)	Microcirculation	(4)) Portal circulation
34.	'Kl	eda Vāhana' and 'Kleda Vidhrt	i' are the	functions of :
	(1)	Sveda and Śukra respectively	(2)	Mūtra and Sveda respectively
	(3)	Mūtra and Purīşa respectively	y (4)	Sveda and Mūtra respectively
35.	In	an experiment, the researcher r	nanipulat	es the variable, and measures
	the	changes in the variable	e.	
	(1)	Population, sample	(2)	Sample, population
	(3)	Independent, dependent	(4)	Dependent, independent
36.	Fol	llowing is NOT true with respe	ct to chole	ecystokinin :
	(1)	Secreted by enteric neurons		
	(2)	Secreted by "l" cells in the mu	cosa of th	e duodenum and jejunum
	(3)	Digestive products of fat, fa	tty, acids	s and monoglycerides stimulate it's
	(4)	It stimulates stomach contract	tions	a a
37.	Soc	dium-Potassium Pump is an ex	ample for	the following type of transport:
		Passive Diffusion		Primary Active Transport
	(3)	Secondry Active Transport		Facilitated diffusion
38.	Ne	uritis is a manifestation of the	he deficie	ency of all the following vitamins,
	exc	ept:		or an one ronowing vitalities,
	(1)	Thiamine	(2)	Vitamin B12
	(3)	Pantothenic acid		Vitamin C
39.	Ne	gative nitrogen balance is obser	rved in :	*
	(1)	Pregnancy		
	(2)	Chronic fever or Acute illness		
		Convalescence (recovery from		M
		Growth period	a consessa de la Carlo de Car	
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- 40. Administration of diuretics causes loss of potassium, which may lead to:
 - (1) Metabolic acidosis

- (2) Respiratory acidosis
- (3) Respiratory Alkalosis
- (4) Metabolic Alkalosis

Attempt any five questions. Write answer in 150-200 words. Each question carries 16 marks. Answer each question on separate page, after writing Question Number.

- Write in brief the recent advances in understanding related to Prakriti.
- 2. Transliterate and Translate the following verse and explain the meaning in Hindi/English: अन्नमादानकर्मा तु प्राणः कोष्ठं प्रकर्षति। तदद्रवैर्भिन्नसङ्घातं स्नेहेन मृदुतां गतम्। १६।।

तद्व्रवामन्तर्त्वात स्नहन मृदुता नतन्। ६।। समानेनावधूतोऽग्निरुदर्यः पवनोद्वहः। काले भुक्तं समं सम्यक् पचत्यायुर्विवृद्धये।।७।। एवं रसमलायान्नमाशयस्थमधः स्थितः।

- पचत्यग्निर्यथा स्थाल्यामोदनायाम्बुतण्डुलम्। L.।।
 3. Explain the physiology of Renin-Angiotensin System.
- 4. Explain the muscle spindle and the mechanism of regulation of tone in skeletal muscles.
- Describe the physiology of urine formation as explained in Ayurveda. Write your interpretation of this textual explanation.
- 6. Describe the significance of correlation coefficient by giving few examples.
- Describe different phases of clinical trial.
- 8. Differentiate between longitudinal and cross sectional studies.
- Describe the respiratory physiology as per Ayurveda. Write your interpretation.
- Discuss the seasonal variation and physiological changes.

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