

Set No. : 1

Question Booklet No.

RET/16/TI	EST-B
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658 Community Medicine

(To be f	filled up by the ca	undidate by ble	o/block bull		
Roll No.	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		icinaek ban		
Roll No. (Write the	digits in words)				
Serial No. of OMR					
Day and Date					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<u> </u>				(Signature o	f Invigilator)

INSTRUCTIONS TO CANDIDATES

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

- Within 30 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 fesh 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 change 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.
- 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 pages 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: 20

9.

ROUGH WORK एक कार्य

Research Entrance Test-2016

No. of Questions: 50

प्रश्नों की संख्या: 50

Time: 2 Hours

Full Marks: 200

समय : 2 घण्टे

पूर्णाङ्क : 200

Note: (1) This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.

इस प्रश्न पुरितका में 40 वस्तुनिष्ट व 10 लघु उत्तरीय प्रश्न हैं।

- (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. अधिकाधिक वस्तुनिष्ठ प्रश्नों को हल करने का प्रयत्न करें। प्रत्येक वस्तुनिष्ठ प्रश्न 3 (तीन) अंकों का है। प्रत्येक गलत उत्तर के लिए 1 (एक) अंक काटा जायेगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा। यदि वस्तुनिष्ठ प्रश्नों के एकाधिक वैकल्पिक उत्तर सही उत्तर के निकट प्रतीत हों, तो निकटतम सही उत्तर दें।
- (3) 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.

केवल 5 (पाँच) लघुउत्तरीय प्रश्नों के उत्तर दें। प्रत्येक प्रश्न 16 (सोलह) अंकों का है तथा उनका उत्तर 150-200 शब्दों के बीच होना चाहिए। इसके लिए इस पुस्तिका में लगे हुए सादे 5 (पाँच) पृष्टों का ही उपयोग आवश्यक है। प्रत्येक प्रश्न का उत्तर एक नए पृष्ट से, प्रश्न संख्या लिखकर शुरू करें।

01.		ch of the following is not pathetice neuron?	syn	thesized in postganglionic	
	(1)	L-DOPA	(2)	Dopamine	
	(3)	Norepinephrine	(4)	Epinnephrine	
02.	Whic	ch of the following drug is a tr	anqu	nilizer ?	
	(1)	LSD	(2)	Atropine	
	(3)	Lithium	(4)	Chlorpromazine	
03.	Hyst	terectomy is the removal of?			
	(1)	Kindly	(2)	Uterus	
	(3)	Ovary	(4)	Testis	
04.		ch of the following is not cs oid hormeone :	senti	al for normal biosynthesis of	
	(1)	Iodine	(2)	ferritin	
	(3)	Thyroglobulin	(4)	TSH	
05.	Sele	ect the best statement for Lyn	nphoy	ytes:	
	(1)	are unaffected by hormones			
	(2)	all originate from the bone n	narro	ow	
	(3)	are part of the body's defens			
	(4) convert to monocytes in response to antigense				
06	. Bas	rmometer) is :		ctors thermometer (mercury	
	(1)	Thermal expansion of liquid	l		
	(2)	Thermal expansion of gas a	bove	the liquid in the thermometer	
	(3)	Capillary action			
	(4)	None pf the above			

07.	The compound which serves as antioxidant in living systems and plays							
	a key role in detoxification is :							
	(1)	glutathione	(2)	glutamate				
	(3)	proline	(4)	tetrahydrofolate				
08.	Wh	ich of the following vitamins re	مصيام	too Colombia III oo				
	(1)	Vitamin A	(2)	Thiamine				
	(3)	Ascorbic acid	(4)	Vitamin D				
09.	An	example of antioxidant enzym	e is :					
	(1)	Superoxide dismutase						
	(2)	Choline oxidase						
	(3)	(3) Phenylalanine ammonia lyase						
	(4)	Alcohol dehydrogenase						
10.	The	organ of the body mainly dam	าลตะก	l in henatitis is :				
	(1)	Heart						
	13000 140		(2)	Liver				
	(3)	Kidney	(4)	Eye				
11.	Kala	-azar is transmitted by:						
	(1)	Redurid bug	(2)	Sand fly				
	(3)	Tsetse fly	(4)	Mosquito				
12.	The	largest incubation period is se	en ir	which type of molecie				
	(1)	P. vivax	(2)	P. ovale				
	(3)	P. falciparum	(4)	P. malariae				

13.	Which of the following does not play a role in wound healing?							
	(1)	Vitamin-C	(2)	Zinc				
	(3)	Oxygen	(4)	Cortisol				
14.	Ame	ong cereals and millets, riches	t sou	rce of calcium in :				
	(1)	Bajara	(2)	Maize				
	(3)	Ragi	(4)	Wheat				
15.	Den	gue virus appears to have a d	irect	man mosquito to man cycle in				
	Indi	a. The mechanism of dengue	virus	s survival in the interepidemic				
	period is:							
	(1)	(1) Non-human reservoir						
	(2)	(2) Dormant or latest phase in man						
	(3) Transovarian transmission of the virus.							
	(4) Poor housekeeping by the public							
16.	Mic	erofilaria Endemicity Index is						
	(1)	Number of microfilaria in th	e blo	ood				
	(2) Percentage of persons showing microfilaria in their blood							
	(3)	Average number of persons	with	positive slide				
	(4)	Percentage of persons showi	ng m	icrofilaria in blood and diseased				
		individuals						

17.	Wh	ich of the following is not	transmit	ted by Arthropod:					
	(1)	Relapsing fever	Relapsing fever						
	(2)	Rickettsial pox							
	(3)	Rocky mountain spotted	fever						
	(4)	Q fever							
18.	Wh	ich of the following vegetab	ole is froi	m non vegetables sources :					
	(1)	Vitamin- A	(2)	Vitamin- B					
	(3)	Vitamin- B ₁₂	(4)	Vitamin- C					
19.	Afte	r giving Japanese encepha	litis vac	cine, immunity develops :					
	(1)	5 days	(2)	15 days					
	(3)	30 days	(4)	90 days					
20.	The	fortificant used in iodized	salt is :						
	(1)	Sodium iodide	(2)	Potassium iodide					
	(3)	Sodium iodate	(4)	Potassium iodate					
21.				lly classified as interval scale					
			egorical	data. Blood groups will be an					
	exar	nple for :							
	(1)	Interval scale data	(2)	Ordinal scale data					
	(3)	Nominal scale data	(4)	None of the above					

22.		t method of sampling is	reco	mmended to	esti	mate the			
	Immunization coverage:								
	(1)	(1) Simple random sampling							
	(2)) Stratified random sampling							
	(3)	30 Cluster random sampling							
	(4)	Multi-stage random sampling	5						
23.		normal (Gaussian) curve, the	area	between 2 SD	fron	n mean on			
	(1)	68%	(2)	95%					
	(3)	99%	(4)	None of the a	bove				
24.	Calc	culation of relative risk require	esa:						
	(1)	Prospective study	(2)	Retrospective	stuc	ły			
	(3)	Cross sectional study	(4)	Exploratory s	1.21				
~-		ample of 50 men who has my	,ocar	dial infarction	the	mean CPK			
25.									
	level is 280 u/l and the SD is 18 u/l. The standard error of mean					or of mean			
	wou	ıld be :							
	(1)	$280/18$ (2) $18/\sqrt{50}$	(3)	18/50	(4)	$280/\sqrt{18}$			
	F <u>222</u> 76								
26.	Тур	e I error is :							
	(1)	Accepting a null hypothesis							
	(2)	Accepting a null hypothesis	wher	n it is false					
	(3)	Rejecting a null hypothesis	wher	it is true					
	(4)	Rejecting a null hypothesis							

27.	The odds ratio in a case control study was found to be 5.2. The statistical							
	sigr	significance will be assessed by:						
	(1)	Paired t test	(2)	Unpaired t test				
	(3)	Wilcoxon sign rank test	(4)	Chi square test				
28.	befo	study of 30 patients of liver ci ore and after the treatment. ulated by:	rrhos The	sis, enzyme level was evaluated test of significance would be				
	(1)	Paired t test	(2)	Unpaired t test				
	(3)	Chi square test	(4)	McNemar test				
29.	If two samples are drawn from two non Gaussian populations, to test that the two population's distribution is similar or different, one should apply:							
	(1)	Unpaired t test	(2)	Wilcoxon sign rank test				
	(3)	Chi square	(4)	None of the above				
30.	In hypothesis testing, the hypothesis tentatively assumed to be true is:							
	(1)	The alternative hypothesis						
	(2)	The null hypothesis						
	(3)	Either the null or the alterna						
	(4)	None of these alternatives is o	orre	ct				
31.	If a h	nypothesis is rejected at 5% le	vel of	significance, it:				
		Will always be rejected at 1%						
		Will always be accepted at 1%						
	(3)	Will never be tested at 1% leve	el					
	(4) May be rejected or not rejected at 1% level							

32.	Whie	Which experiment design is more efficient?						
	(1)	Completely randomized design						
	(2)	Randomized	block	design				
	(3)	Latin square	desig	<u>,</u> n				
	(4)	All are equa	lly effi	cient	•			
33.	vacc	clinical triacinated and unaccinated to	nvacc	inated grou	p is 0 of inf	.2%, how ma	iny cas	between es should
	1-1	-	Name &		13 12			
34.	Cor	nponents of gramme in In	Preg	nancy and following	d chi EXCE	ld birth un PT	der R	MNCH+A
	(1)						riod &	Antenatal
	(1)	(1) Preventive use of folic acid in peri-conception period & Antenatal care package and tracking of high risk pregnancies						
	(2) Skilled obstetric and essential newborn care and resuscitation							
	5 3	& Emergency obstetric and new born care						
	(3) Postpartum care for mother and baby & Postpartum IUCD insertion and sterilization							
	(4)	Adolescent	friend	ly health so	ervice	S		
			Tell Bake	0200 121 4 1 0 4		05/1000	مدحد لد	aidorina o
35.	In	a population rection factor	of 50	00, birth r	ate is	s 25/1000 at sf 10% What	na con t will b	e the total
	cor	mber of expe	ted bi	rths in a ve	ear:	51 1070. 1114		
	(1)	138				60	(4)	140
36	. Acc	cording to int	ernati	onal stand	ards,	STILL BIRTH	I is def	ined if the
		ight is ABOV						
	(1)	500 gm			(2)	800 gm		
	(3)	1000 gm			(4)	2000 gm		

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- 37. Child Survival Index is calculated by?
 - (1) 1000-IMR/10

(2) IMR-1000/10

(3) 1000-U5MR/10

(4) U5MR-1000/10

- 38. The following statements about breast milk are true except:
 - (1) The maximum milk output is seen at 12 months
 - (2) The coefficient of uptake of iron in breast milk is 70%
 - (3) Calcium absorption of human milk is better than that of cow's milk
 - (4) It provides about 70 kcals per 100 ml of breast milk
- **39.** Which of the following advice should be given for an infant suffering from mild diarrhoea?
 - (1) Continue breastfeeding
 - (2) Antibiotics
 - (3) Stop all breast feed and start ORS
 - (4) Intravenous fluid administration
- 40. Maternal Mortality Rate is calculated by:
 - Number of maternal deaths during a given time period per 100,000 live births during the same time period
 - (2) Number of maternal deaths in a given period per 100,000 women of reproductive age during same time period
 - (3) Number of maternal deaths during a given time period per 100,000 population during the same time period
 - (4) Number of maternal deaths in a given time period per 1000 population during the same time period

Short Answer Questions

Note: 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.

- 01. Ecological Studies
- 02. Physical Quality of Life Index (PQLI)
- 03. Measuring indicators of strength of association
- 04. Graphical presentation of data
- 05. Measures of dispersion
- 06. Menstrual Hygiene scheme
- 07. Maternal death review
- 08. Treatment as prevention in HIV/AIDS
- 09. Brief account of strategies for elimination of Lymphatic filariasis
- 10. Role of targeted Public distribution system in combating FOOD INSECURITY in India

Page for Short Answer

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Question No.

ROUGH WORK

रफ़ कार्य

ROUGH WORK एफ कार्य

अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली-काली बाल-प्वाइंट पेन से ही लिखें)

- प्रथम पृथ्यिका मिलने के २० मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मीजृद है और कोई प्रथम छूटा नहीं हैं। पुरिस्तका दोपयुक्त पाये जाने पर इसकी सूचना तत्काल कथा-निर्माक्षक को देकर सम्पृष्ट प्रश्नपत्र की दृसरी पुश्तिका प्राप्त कर लें।
- 2. परिक्षा भवन में *लिफाफा रहित प्रवेश-पत्र के अतिरिक्त*, लिखा या सादा कोई भी खुला कागज सन्ध में सन्दर्भी
- उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा।
 केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
- अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखें।
- उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
- (५. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्नपुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्नपुस्तिका पर अनुक्रमांक और ओ० एम० आर० पत्र संख्या की प्रविष्टियों में उपरिलेखन की अनुमित नहीं है।
- उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।
- 8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिए आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाड़ा करना है।
- ग्रत्येक प्रश्न के उत्तर के लिए केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
- 10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं, तो संबंधित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।
- रफ कार्य के लिए प्रश्न-पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा उत्तर-पुस्तिका के अंतिम पृष्ठ का प्रयोग करें।
- 12. परीक्षा के उपरान्त केवल ओ एम आर उत्तर-पत्र परीक्षा भवन में जमा कर दें।
- 13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
- 14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की, भागी होगा/होगी।