Set No. :				Question Bookle
RET/	17/TEST-	в	640	Gastroenterolog
Roll No.				
	rite the digits	in words)		
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Serial No.	of OMR Answe	er Sheet		

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 the mediately 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 An. ver Sheet shall not be provided.
- 4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided abo
- 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.
- 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 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

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ROUGH WORK रफ़ कार्य

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01. Which kidney Disease is a "Global Public Health" Problem Worldwide ?

- (1) Acute Kidney Injury (AKI)
- (2) Kidney Stone
- (3) Chronic Kidney Disease (CKD)
- (4) Renal Papillary Necrosis

02. Which Virus affects mainly Human Immune System ?

- (1) Hepatitis A Virus (HAV)
- (2) Parvo Virus B19

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- (3) Cytomegle i'us (CMV)
- (4) H² → Mmunodeficiency Virus (HIV)

Which BHU Alumnus is honoured with "Bharat Ratna" ?

- (1) Prof.K.N.Udappa (2) Prof.O.N.Srivastava
- (3) Prof.C.N.R.Rao (4) Prof.R.D.Dwivedi

04. Which of the following drug is used as "Immunosuppression" ?

- (1) Citrofloxocin (2) Aspirin
- (3) Ampicellin (4) Cyclosporine

05. The Probability of a particle to cross a barrier of height more than the kinetic energy of the particle is :

- (1) zero (2) one
- (3) between zero and one (4) 50%

Research Entrance Test-2017

No. of Questions : 50

प्रश्नों की संख्या : 50

Time : 2 Hours

समय : 2 घण्टे

Full Marks : 200 पूर्णाङ्क : 200

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

इस प्रश्न पुस्तिका में 40 वस्तुनिष्ठ व 1% नुघू उत्तरीय प्रश्न हैं।

(2) Attempt as many MCQs as you can. Eac. MCQ carries 3 (Three) marks. 1 (One) mark will be deducted for answer. Zero mark will be awarded for each ach incorrect question. If more than one alternative answers of MC^{tempted} to be approximate to the correct answer, choose the closes seem

अधिकाधिक वस्तुनिष्ठ प्रश्नों को हल करने का प्रयत्न करें। प्रत्ये 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 हो, 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) पृष्ठों का ही उपयोग आवश्यक है। प्रत्येक प्रश्न का उत्तर एक नए पृष्ठ से, प्रश्न संख्या लिखकर शुरू करें।

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06.		iciency of which of the follow ries and mottled enamel ?	ving m	nineral nutrients induces dental
	(1)	Molybdenum	(2)	Cobalt
	(3)	Fluorine	(4)	Iron
07.	Oxi	dation number of Iodine is l	nighest	t in which compou (1)
	(1)	KI	(2)	1 1
	(3)	IF ₅	(4)	KIO,
08.	In w	thich part of our body, antit	odies ;	are for (+)
	(1)	Brain	(2)	Lungs ,
	(3)	Bone marrow	(4)	Spleen
09.		ch of the following sensat ated in naked nerve ending		is not generated by impla
	(1)	Touch	(2)	Pain
	(3)	Cold	(4)	Smell
10.	Sou	nd cannot travel through :		
	(1)	Air	(2)	Water
	(3)	Fire	(4)	Vacuum
(1)	stages of a malignant dise ols 0, I, II, III, IV. We say tha Alphanumeric Drdinal	(2)	ancer) is recorded using the scale used is; Numerical Nominal

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- **12.** If the average of a series of values is 10 and their variance is 4, then the coefficient of variation is :
 - 11 40% (2) 20% (3) 80% (4) 10%
- 13. The median of a Series of numerical values is :
 - (1) A value for which half of the values are higher and half of the values are lower
 - (21 The value located exactly midway between the minimum and maximum of the series.
 - [3] The most commonly encountered values among the series

Lef the eccentricity of the series

tile of a series of values is :

- The numeric value for which two quarter of the series' values
- are lower
- 2) The value of the ordered series located at 75% of the number of values in the series.
- The value in the ordered series located at 25% of the number 131 of values in the series
- The numeric value for which a quarter of the series' values are (-1) higher
- 15. If on a group of 457 patients, for a risk factor we calculated a Relative Risk RR=12.74, the possibility of developing the disease being investigated is :
 - (1) Not relevant as RR is less than 100
 - (2) Very small whey exposed to the factor
 - [3] The same in the case of exposure in the case of non-exposure
 - (4) Very high when exposed to the factor

16. The Sensitivity (SN) of a clinical trial :

- Is the ratio of sick patients, diagnosed as positive and the total number of sick patients.
- (2) Is the ratio of healthy subjects, diagnosed as negative and the total number of healthy subjects
- (3) Is the ratio of sick patients, diagnosed as negative and the total number of patients.
- (4) Is the ratio of sick patients, diagnosed as negative and the total number of healthypersons
- 17. The Confidence Interval for the mean, calculated for a series of values, has the interpretation :
 - The true mean, the one that approximates the population's mean, is almost certain inside the confidence interval
 - (2) The true variance is almost certain inside the confidence interval
 - (3) The true median is almost certain inside the confidence interval
 - (4) It is an interval that contains almost all the values of the series
- 18. The result of a statistical test, denoted p, shall be interpreted as follows:
 - The null hypothesis H0 is accepted if p<0.05
 - (2) The null hypothesis H0 is rejected if p> 0.05
 - (3) The alternate hypothesis H1 is rejected if p>0.5
 - (4) The null hypothesis H0 is rejected if p<0.05

19. Helicobacter Pylori is :

- (1) Gram positive bacilli (2) Gram negative bacilli
- (3) Gram positive cocci
- (4) Gram negative cocci

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20. Most probable route of transmission of Helicobacter pylori :

- (1) Parenteral (2) Faeco-oral
- (3) Blood transfusion (4) Placental

21. Which of the following virus is associated with owl's eye inclusion body ?

- (1) Herpes simplex virus (2) Cytomegalovirus
- (3) Epstein bar virus (4) Adenovirus
- 22. Faeco oral route of transmission is seen in :
 - (1) Hepatitis A virus (2) Hepatitis B virus
 - (3) Hepatitis C virus (4) Hepatitis D virus

23. Vaccine is not available for which of the following viruses :

- (1) Hepatitis A virus (2) Hepatitis B virus
- (3) Hepatitis C virus (4) Varicella zoster virus

24. Which of the following statement is false regarding hepatitis A virus ?

- (1) It is single stranded positive sense RNA virus
- (2) Vaccine is given as intramuscular injection
- (3) It is blood born infection
- (4) Commonly presents with jaundice

25. True statement regarding hepatitis B virus :

- (1) It causes both acute and chronic hepatitis
- (2) It is single stranded DNA virus
- (3) It has single genotype
- (4) It's genome contains 9600 nucleotides

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26.	Ampulla of Vater is located in :					
	(1)	Jejunum	(2)	lleum		
	(3)	Stomach	(4)	Duodenum		
27	Digestive juice is secreted by :					
21.			(0)	Deces harmon		
	(1)	Spleen	(2)	Esophagus		
	(3)	Pancreas	(4)	Large intestine		
28.	Which of the following is not a inflammatory mediator ?					
	(1)	Interleukins	(2)	Lymphokines		
	(3)	Tumour necorsis factor-alpha	a (4)	Cholecystokinin		
29.	Vitamin A deficiency causes all except :					
	(1)	Follicular hyperkeratosis	(2)	Excessive bleed		
	(3)	Bitot's spot	(4)	Night blindness		
20	Dell	orro in coursed by deficiency a	c .			
30.		agra is caused by deficiency o				
	(1)	Niacin	(2)	Riboflavin		
	(3)	Thiamine	(4)	Folic Acid		
31.	Which of the following is not an antioxidant ?					
	(1)	Vitamin A	(2)	Vitamin E		
	(3)	Selenium	(4)	Vitamin B12		
	(-)	Soloman	(')	FRAMMI DIZ		
32.	Met	astasis term is usually used w	ith :			
	(1)	Malignancy	(2)	Chronic constipation		
	(3)	Diarrhoea	(4)	Pancreatitis		

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33.	Bile	juice is stored in :		
	(1)	Common bile duct	(2)	Gall bladder
	(3)	Liver	(-1)	Small intestine
24		· · · ·		11
34.	MOS	t common cause of diarrhoea	in ch	aldren :
	(1)	Rota virus	(2)	Adeno virus
	(3)	Cytomegalovirus	(-1)	Varicella zoster virus
35.	Age	of infant is		
	(1)	<1 months	(2)	<6 months
	(3)	<12 months	(4)	<18 months
36.	Lon	gest bone in human body :		
	(1)	Femur	(2)	Tibia
	(3)	Ulna	(4)	Humerus
37.	Pow	er house of cell is :		
	(1)	Ribosome	(2)	Golgi body
	(3)	DNA	(4)	Mitochondira
38.	Whi	ch of the following is not secre	eted	by stomach ?
	(1)	Hydrochloric acid	(2)	Pepsinogen
	(3)	Sulphuric acid	(4)	Intrinsic factor

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.** What are the phases of cell division ?
- 02. Name of various enzymes with source of secretion in digestion.
- 03. Life cycle of Entamoebahistolytica.
- 04. Name of various protozoans causing diarrhoea in humans.
- 05. What are the components of metabolic syndrome ?
- 06. Draw a schematic diagram of HIV virion.
- 07. Discuss briefly the life cycle of Ascaris.
- 08. What are the worms infecting humans?
- 09. Discuss briefly about nutritional care in liver disease.
- 10. Fat soluble vitamin deficiency.

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39. Which of the following is a vestigealorgan ?

- (1) Appendix (2) Jejunum
- (3) Ileum (4) Rectum

40. Clotting factor VIII deficiency causes :

- (1) Thalassemia (2) Leukaemia
- (3) Hemobilia (4) Hemophilia

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Question No.

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Page for Short Answer

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P.T.O.

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)

- प्रश्न पुस्तिका मिलने के 30 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निर्राक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर ले।
- परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज मध्य में न लायें।
- 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।
- 4. अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखे।
- 5. 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।
- 6. 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 अनुमति नहीं है।
- 7. 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 गाढा करना है।
- प्रत्येक 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 दे।
- परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
- यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का की, भागी होगा/होगी।