

Question Booklet No. ....

(To be filled up by the candidate by **blue/black ball-point pen**)Roll No. 

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Roll No. (Write the digits in words) .....

Serial No. of OMR Answer Sheet .....

Day and Date .....

(Signature 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.

**FOR ROUGH WORK**

# Research Entrance Test – 2013

No. of Questions : 50

Time : 2 Hours

Full Marks : 200

- Note :**
- (i) This Questions 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. The process of copying genetic information from DNA to RNA is known as
  - (1) Translation
  - (2) Replication
  - (3) Transcription
  - (4) Ligation
2. Separation and isolation of DNA is carried by
  - (1) Gel electrophoresis
  - (2) Polymerase chain reaction
  - (3) Bioreactors
  - (4) Cloning vectors
3. Which is not a sexually transmitted disease
  - (1) HIV
  - (2) Hepatitis B
  - (3) Listeriosis
  - (4) Chlamydia
4. Barr body is an
  - (1) Autosome
  - (2) X chromosome
  - (3) Y chromosome
  - (4) Mutated chromosome
5. Which is not a connective tissue
  - (1) Bone
  - (2) Cartilage
  - (3) Adipose tissue
  - (4) Muscular tissue
6. Antibodies are responsible for
  - (1) Cell mediated immunity
  - (2) Humoral immunity
  - (3) Innate immunity
  - (4) Autoimmunity
7. Hair is made of
  - (1) Elastin
  - (2) Fibrin
  - (3) Keratin
  - (4) Reticulin
8. Sympathetic nervous system has
  - (1) Craniosacral flow
  - (2) Cerebrocortical flow
  - (3) Thoracolumbar flow
  - (4) Diencephalic flow
9. Microglial cells are present in
  - (1) Liver
  - (2) Kidney
  - (3) Spleen
  - (4) Brain
10. Mitral valve is present between
  - (1) Left ventricle and aorta
  - (2) Right ventricle and pulmonary trunk
  - (3) Left atrium and left ventricle
  - (4) Right atrium and right ventricle

11. Recommended daily allowance of extra protein for pregnant women is :
- (1) 18 gm                      (2) 15 gm                      (3) 23 gm                      (4) 25 gm
12. Which one is not the dietary survey method ?
- (1) Stock Inventory method                      (2) Waist Hip Ratio  
(3) Weighment of raw food                      (4) 24 Hours Recall Method
13. All statement is correct regarding HTST method of Pasteurization of milk except
- (1) High Temperature and short Time Method  
(2) Rapidly Heated to 72°C for 15 Seconds and then rapidly cooled to 4°C  
(3) Also known as Two stage method  
(4) This method kills heat resistant bacteria and Q fever organisms
14. All of the following are beneficiaries of Integrated Child Development Scheme (ICDS) except :
- (1) Pre school children                      (2) Pregnant women  
(3) Adolescent girls 11-18 years                      (4) Women 45-60 years
15. Range of correlation coefficient is
- (1) 0 to  $\infty$                       (2) 0 to 1                      (3) -1 to 1                      (4) -1 to 0
16. All of the following statements are true regarding Phenoderma except
- (1) Due to deficiency of essential amino acids  
(2) Rough and tough skin like toad  
(3) Characterized by horny papular eruptions on posterior and lateral aspects of limbs  
(4) Cured rapidly by the administration of safflower oil

17. Which of the following has least Glycemic Index ?  
(1) White Rice      (2) Corn Flakes      (3) Brown Bread      (4) Soyabean
18. Byssinosis is caused by  
(1) Inhalation of sugarcane dust  
(2) Inhalation of mould hay or grain dust  
(3) Inhalation of cotton fiber dust  
(4) Inhalation of asbestos
19. Which statement is not true regarding World Health Organization (WHO) ?  
(1) WHO is not political Health agency of United Nations  
(2) There are six regions of WHO  
(3) SEARO Headquarter is in New Delhi  
(4) Pakistan is a Member country of SEARO
20. Which of the measure is not affected by the outliers ?  
(1) Mean      (2) Inter quartile range  
(3) Standard deviation      (4) Range
21. IMNCI includes all except  
(1) Tetanus      (2) ARI  
(3) Measles      (4) Malaria
22. Which one of the following is known as medical discovery of 20<sup>th</sup> century ?  
(1) Zidovudine      (2) Small pox vaccine  
(3) ORS      (4) Penecillin
23. IMR does not include  
(1) Early neonatal mortality      (2) Perinatal mortality  
(3) Postneonatal mortality      (4) Late neonatal mortality
24. Helpline for AIDS can be reached by dialing  
(1) 1079      (2) 1091  
(3) 1098      (4) 1097

25. Lowest level at which Health Action Plan is prepared under NRHM is
- (1) State level (2) District level  
(3) Subcentre level (4) Village level
26. About ASHA all is true except :
- (1) They are preferably females  
(2) There is one ASHA per 1000 population  
(3) ASHA is skilled birth attendant  
(4) Provides primary medical care for minor ailments
27. Communication is a Process by which
- (1) Two people talk to each other  
(2) Two or more points are connected by some method(s)  
(3) Some individuals or groups exchange their ideas  
(4) Communication is a subject of sociology
28. Positive Health indicators include :
- (1) Alcohol abuse rate (2) Doctor Population Ratio  
(3) Hospital bed occupancy rate (4) Total dependency ratio
29. The National Research Council listed four steps in the process of Risk Assessment. One of the most important step of them is :
- (1) Hazard identification (2) Case control study  
(3) Prospective study (4) Clarity epidemiology
30. Normal population distribution is known as :
- (1) Gaussian Distribution (2) Harmonic Distribution  
(3) Sampling Distribution (4) Anomic Distribution
31. ABC and VED analysis are types of :
- (1) Medicine purchasing analysis (2) Staff recruitment methodology  
(3) Regulatory Procedure (4) Material management method
32. Denominator while calculating the secondary attack rate should include :
- (1) All the people living in next fifty houses  
(2) All the close contacts  
(3) All susceptible amongst close contact  
(4) All susceptible in the whole village

- 33.** To prevent the spread of the infection to the Family members of a patient of pulmonary tuberculosis which of the following action should be taken :
- (1) Isolation of patient from children and infeat home
  - (2) Teaching him/her sputum hygiene
  - (3) Put the patient on DOTS therapy as early as possible
  - (4) Immunizing all children with BCG
- 34.** Prevalence rate of a disease is :
- (1) Rate
  - (2) Proportion
  - (3) Ratio
  - (4) None of the above
- 35.** Strength of association is not measured by :
- (1) Relative Risk
  - (2) Odds Ratio
  - (3) Incidence Rate
  - (4) Dose-response relationship
- 36.** Which of the following is an advantage of 'Active Surveillance' for a disease :
- (1) More accurate and productive
  - (2) Requires lessworkers
  - (3) Not expensive
  - (4) Less time consuming
- 37.** Which statement is not true regarding lathyrism
- (1) Lathyrism is more prevalent in Madhya Pradesh
  - (2) Diet containing more than 30% of khesari dal over 2-6 months causes lathyrism
  - (3) Toxin for lathyrism is Beta Oxalyl Amino Acetate
  - (4) Vitamin C is used as prophylax is
- 38.** A boy of 18 years from north Bihar reported to Hospital with irregular fever since 2 months associated with hepato splenomegaly and speedy deterioration in health. The most probable diagnosis is :
- (1) Malaria
  - (2) Sickle cell Anaemia
  - (3) Kala azar
  - (4) Heavy round worm infestation
- 39.** The term used for babies born as result of retarded intrauterine fetal growth is :
- (1) Preterm babies
  - (2) LBW babies
  - (3) Small for Date babies
  - (4) Retarded babies
- 40.** Mass chemoprophylaxis in endemic area is recommended for all of the following except :
- (1) Yaws
  - (2) Leprosy
  - (3) Trachone
  - (4) Filaria



**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.**

- 1.** Give a brief account of scalable strategies for prevention of non communicable diseases in developing countries.
- 2.** Enumerate health problems of adolescents. Give an outline of operational framework for Adolescent Sexual and Reproductive Health under RCH phase 2
- 3.** Mention impacts of Technology change in immunization services with respect to equity, safety and simplicity ?
- 4.** Mention various models of Public Private Partnership (PPP)
- 5.** What is a sample ? Why sampling is done ? Write different sampling methods and elaborate stratified sampling procedure.
- 6.** Mention beneficiaries, objectives and services provided in ICDS scheme.
- 7.** Mention benefits to employees in Employee Insurance Act
- 8.** Give a brief account of National Filaria control programme
- 9.** What is epidemic ? Give an outline of steps involved in an investigation of an epidemic
- 10.** What are the risk factors of cervical cancer ? Discuss strategies for its prevention.

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**Q. No. :**

**FOR ROUGH WORK**

