

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 – 2014

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. Decrease in biodiversity in tropical countries is mainly due to :
(1) Urbanization (2) Deforestation
(3) Pollution (4) Soil erosion
2. Where does glycolysis occur in a cell ?
(1) Chloroplast (2) Mitochondria (3) Cytoplasm (4) Golgi body
3. The process that accounts for transfer of genetic information from DNA to RNA is called as :
(1) Translocation (2) Translation (3) Transformation (4) Transcription
4. Leydig's cells produce :
(1) Thyroxine (2) Growth hormone
(3) Testosterone (4) Progesterone
5. A tumor suppressor gene which is known as "Guardian of the genome" is :
(1) myc (2) p⁵³ (3) Sr C (4) H-Ras
6. Which is the function of interleukins ?
(1) Stimulation of wound healing
(2) Treatment of infertility
(3) Dissolving blood clot
(4) Enhancement of action of immune system
7. Which of the following is *not* an anticoagulant ?
(1) Heparin (2) Protamine sulphate
(3) Warfarin (4) Hirudin
8. Which of the following is *not* a part of triple response ?
(1) White reaction (2) Red reaction (3) Wheal (4) Flare

9. Virus envelope is known as :
- (1) Capsid (2) Virion (3) Nucleoprotein (4) Core
10. Peptide synthesis inside a cell takes place in :
- (1) Mitochondria (2) Chloroplast (3) Ribosomes (4) Chromoplast
11. All the following are health policy indicators except :
- (1) Political commitment to health for all
(2) Resource allocation
(3) Disability prevalence
(4) Community involvement
12. Most sensitive parameter of combined paediatric & Obstetric care in our country is :
- (1) Peri-natal mortality rate (2) Neonatal mortality rate
(3) Infant mortality rate (4) Post Neonatal mortality rate
13. Strength of sewage is expressed in terms of :
- (1) E-Coli Count (2) Suspended particles
(3) Chemical oxygen demand (4) Biological Oxygen demand
14. Measures involved in sentinel surveillance includes all the following except :
- (1) Identifying missing cases in notification of diseases
(2) Identifying new cases of infection
(3) Identifying old & new cases
(4) Identifying cases free of disability
15. The more promising management technique tool for application in health field is :
- (1) Cost effective analysis (2) Cost benefit analysis
(3) Cost accounting (4) Input output analysis

16. In a randomized clinical trial, the essential purpose of randomization is :
- (1) To make the study double blinding
 - (2) To decrease the follow- up period
 - (3) To eliminate the selection bias
 - (4) To decrease the sample size
17. Savlon contains :
- (1) Chlorhexidine and chlorxylenol
 - (2) Cetavlon and chlorhexidine
 - (3) Cetavlon and habitane
 - (4) Hibitane and chlorxylenol
18. Declaration of Global eradication of small pox was done on :
- (1) 26th Oct,1977
 - (2) 8th May 1980
 - (3) 17th March 1980
 - (4) 17th April 1977
19. Following are the control measures of measles except :
- (1) Isolation of 7 days after rash
 - (2) Immunization of the contacts within 7 days
 - (3) Immunization at the beginning of the epidemic
 - (4) Immunoglobulin instead of vaccine
20. Congenital malformation are more common if rubella infection occurs during :
- (1) 1st and 2nd month of pregnancy
 - (2) 3rd and 4th month of pregnancy
 - (3) 5th and 6th month of pregnancy
 - (4) 7th and 8th month of pregnancy
21. Which is *not* true for cohort study :
- (1) Costly and time consuming
 - (2) Suffer with attrition problem
 - (3) Conducted for rare disease
 - (4) Can calculate incidence rate

22. True statement regarding Japanese encephalitis is :
- (1) 70% of cases are reported from infants
 - (2) Rate of clinical apparent to non apparent infections is 1 : 100
 - (3) Mosquito bite is always associated with the disease
 - (4) Epidemic is declared if there are 2-3 cases in a village
23. Quarantine was first applied for :
- (1) HIV/AIDS
 - (2) Tuberculosis
 - (3) Leprosy
 - (4) Plague
24. James Lind is related to the discovery of :
- (1) Prevention of Scurvy
 - (2) Pathogenesis of scurvy
 - (3) Cause of scurvy
 - (4) All
25. Target year for elimination of lymphatic filariasis in India is :
- (1) 2010
 - (2) 2015
 - (3) 2020
 - (4) 2012
26. Expectation of life, free of disability is measured by :
- (1) Smith's index
 - (2) Park's index
 - (3) Sullivan index
 - (4) Life index
27. Chandler's index is used for :
- (1) Ankylostoma duodenale
 - (2) Ascaris lumbricoides
 - (3) Stongyloides
 - (4) Trichuris trichura
28. Best index of recent transmission of malaria is :
- (1) Annual parasite index
 - (2) ABER
 - (3) Splenic rate
 - (4) Infant parasite rate
29. A lactating women has sputum positive tuberculosis and her child is 3 months old. What is the recommended chemoprophylaxis ?
- (1) INH 3mg/Kg for 3 months
 - (2) INH 5mg/Kg for 3 months
 - (3) INH 3 mg/Kg for 6 months
 - (4) INH 5 mg/Kg for 6 months

30. True about citrate in ORS is :
- | | |
|-------------------------|----------------|
| (1) Increases self life | (2) Nutritious |
| (3) Cheaper | (4) Tastier |
31. All of the following are Age independent anthropometric measurement of nutritional assessment EXCEPT.
- | | |
|---------------------------|----------------------------------|
| (1) Body Mass Index (BMI) | (2) Mid Arm Circumference |
| (3) Hip Waist Ratio | (4) Head and Chest circumference |
32. Which nutrients demand increased during Lactation but not during pregnancy ?
- | | | | |
|---------------|-------------|-------------|--------------|
| (1) Vitamin A | (2) Protein | (3) Calcium | (4) Thiamine |
|---------------|-------------|-------------|--------------|
33. Best method for evaluation of quality of protein :
- | | |
|------------------------------|-------------------------------|
| (1) Biological Value | (2) Net Protein Utilization |
| (3) Protein efficiency Ratio | (4) Digestibility coefficient |
34. Conditional Essential amino acids are :
- | | |
|--------------------------------|--------------------------|
| (1) Leucine & Lysine | (2) Histidine & Arginine |
| (3) Phenylalanine & Tryptophan | (4) Tyrosine & Cystine |
35. Twin fortified Salt contain
- | | |
|-----------------------|------------------------|
| (1) Iodine & Fluorine | (2) Iodine & Vitamin A |
| (3) Iodine & Calcium | (4) Iodine & Iron |
36. Lathyrism by consuming Khesari dal can be prevented by which process :
- | | | | |
|----------------|-------------|-------------|----------------|
| (1) Parboiling | (2) Heating | (3) Soaking | (4) Filtration |
|----------------|-------------|-------------|----------------|
37. The widely accepted definition of health is that given by world health organization (1948) in the preamble to its constitution, one of the following is *not* its component :
- | | |
|---------------------|--------------------|
| (1) Physical health | (2) Lingual health |
| (3) Mental health | (4) Social health |

38. The parallel term for standard of living used in United Nations documents is "level of living". It consists of :
- (1) 11 components (2) 9 components (3) 7 components (4) 5 components
39. The physical quality of life index does *not* consolidate the following indicator :
- (1) Occupation (2) Literacy
(3) Infant mortality (4) Life expectancy at age one
40. The demographic information of India is frequently studied. A recent report states that the death rate of India in the year 2010 was :
- (1) 7.2 (2) 9.2 (3) 11.2 (4) 13.2

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. Define bridge population & its role in spread of HIV/AIDS.
2. Community Need Assessment Approach (CNA).
3. RMNCH+A.
4. What is social marketing & its role in national health programs.
5. Give a brief account of Millennium Development Goals in Indian context.
6. Describe various strategies for control of Japanese encephalitis.
7. Method of evaluation of Protein quality.
8. Scheme for adolescent girls (Kishori Shakti Yojana).
9. Epidemic Dropsy.
10. Presumptive Coliform Test.

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