



RAN-2406000103020601-S

3rd M.B.B.S. (Part-I) Examination January - 2026

Community Medicine (Paper - I) Set - I

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q.1.

MCQS

Section - I

20

- The hallmark feature of an analytic epidemiologic study is:
 - Laboratory confirmation of the diagnosis
 - Use of an appropriate comparison group
 - Publication in a peer-reviewed journal
 - Statistical analysis using logistic regression
- Samuel Hahneman is referred to as founding Father of:
 - Ayurveda
 - Allopathy
 - Homeopathy
 - Yoga
- Living standard of people is best assessed by:
 - Infant mortality rate
 - Maternal mortality
 - Physical quality of life index
 - Death rate
- 'Lead time' refers to the time between:
 - Disease onset and first critical diagnosis
 - Disease onset and first possible point of detection
 - First possible point of detection and final critical point
 - First possible point of detection and usual time of diagnosis
- Limitation of sputum smear microscopy all except
 - Unsuitable for paucibacillary TB
 - Can not distinguish between MTB and NTB
 - Differentiate drug resistance and drug sensitive bacilli
 - Hazard to health worker
- All are indicators of air pollution except:
 - Soiling index
 - McArdle's index
 - Suspended particle count
 - SO₂ Concentration
- Which of the following is not an Avoidable cause of blindness?
 - Cataract
 - Vitamin A deficiency
 - Refractive errors
 - Retinal dystrophies
- Which of the following Biomedical wastes can not be disposed off in Yellow Bags?
 - Reactive chemical wastes
 - Human anatomical wastes
 - Microbiology and Biotechnology wastes
 - Dressings soiled with blood

9. Protein requirement of an adult is:
 - a) 0.7 gm/kg in terms of Egg protein & 0.7 gm/kg in terms of mixed vegetable protein
 - b) 1.0 gm/kg in terms of Egg protein & 1.0 gm/kg in terms of mixed vegetable protein
 - c) 1.0 gm/kg in terms of Egg protein & 0.7 gm/kg in terms of mixed vegetable protein
 - d) 0.7 gm/kg in terms of Egg protein & 1.0 gm/kg in terms of mixed vegetable protein
10. Highest protein content is in
 - a) Red gram
 - b) Black gram
 - c) Bengal gram
 - d) Soya bean
11. Multi load device refers to:
 - a) First generation IUCD
 - b) Second generation IUCD
 - c) Oral contraceptive pills
 - d) Barrier contraceptives
12. Which virus is used to produce rabies vaccine?
 - a) Wild
 - b) Street
 - c) Fixed
 - d) Live attenuated
13. True about chickenpox are all except:
 - a) Caused by Herpes simplex type-3
 - b) SAR is 90%
 - c) Superficial rash
 - d) Single stage of rash is seen
14. Diseases transmitted by Louse include
 - a) Epidemic typhus
 - b) Scrub typhus
 - c) Relapsing fever
 - d) Trench fever
15. Which of the following statements regarding DDT is false
 - a) Pyrethrum has synergistic action
 - b) It is a contact poison
 - c) Immediately kills the prey
 - d) Residual effect lasts 18 months
16. Complete family size is indicative of:
 - a) Total fertility rate
 - b) Gross fertility rate
 - c) General fertility rate
 - d) Net-reproduction rate
17. Minimum chlorine content of water after chlorination should be:
 - a) 0.5 mg/L
 - b) 5 mg/L
 - c) 0.05 mg/L
 - d) 50 mg/L
18. True about Dengue fever is/are except:
 - a) Is the most common arboviral infection
 - b) Can be both epidemic as well as endemic
 - c) Can survive in ambient temperature
 - d) Incidence decreasing in India in last 2-3 decades
19. Which of the following about the composition of new ORS is wrong:
 - a) NaCl- 2.6 grams/litre
 - b) KCl- 1.5 grams/litre
 - c) Glucose - 13.5 grams/litre
 - d) Total osmolarity - 300 mmol/l
20. The depth of Water Seal in RCA Latrine is
 - a) 1 cm
 - b) 2 cms
 - c) 5 cms
 - d) 12 cms

Section - 2

- Q.2. Write Long answer question (1 out of 2) 10**
1. Enumerate and explain the 10 steps of the outbreak investigation.
 2. List five waterborne disease and its agents. Discuss the principle of chlorination explaining the terms chlorine demand, free chlorine & break point chlorination.
- Q.3. Write/ comment short answers (any 2 out of 3) 10**
1. Epidemiological triad
 2. Herd Immunity
 3. Mantoux Test
- Q.4. Write answers/reasons in One or two lines 20**
1. Define elimination and give two examples.
 2. Case control vs Cohort study
 3. What is PQLI?
 4. Explain term epidemiological transition
 5. Importance of carrier in disease
 6. What is demographic dividend?
 7. Explain NRR-1
 8. Explain Triage
 9. What IMR, Current IMR India.
 10. Three most common cause of Maternal Death

Section - 3

- Q.5. Long answers questions 10**
1. Diseases included in NVBDCP. Describe the Integrated Vector Control in detail.
 2. Define family planning. Write in details about fertility indicators
- Q.6. Write/comment short answers (any 2 out of 3) 10**
1. Post exposure prophylaxis in Rabies
 2. Primaquine in P Vivax and P Falciparum Malaria
 3. Ethical standard in dealing with medical errors
- Q.7. Write short notes on the following (5 out of 6 each carries 4 marks) 20**
1. Steps in a randomized controlled trial (RCT) study
 2. Lifestyle modification in Hypertensive patient
 3. HPV vaccine
 4. Five signs of poor mental health
 5. Monitoring Vs Surveillance
 6. List five functions of WHO

RAN-2406000103020602-S

3rd M.B.B.S. (Part-I) Examination January - 2026

Community Medicine (Paper - 2) Set - 3

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q.1. MCQS Paper - 2 Set - 3

Section - I

20

- How much amount of energy is yielded by one ml of alcohol in the body?
 - 1 cal
 - 4 cal
 - 7 cal
 - 9 cal
- The Hb level in healthy women has mean 13.5 g/dl and standard deviation 1.5 g/dl, what is the Z score for a woman with Hb level 15.0 g/dl
 - 9
 - 10
 - 2
 - 1
- For a negatively skewed data mean will be
 - Less than median
 - More than median
 - Equal to median
 - One
- Endemic cretinism is seen when iodine uptake is less than
 - 5 micro gram/day
 - 20 micro gram/day
 - 50 micro gram /day
 - 75 micro gram/day
- Daily requirement for Dietary Fibre by an adult is approx:
 - 1gm
 - 4gms
 - 40 gms
 - 100 gms
- One of the following contains maximum calcium:
 - Rice AP 2000
 - Wheat
 - Ragi
 - Jowar
- Upper reference curve in growth chart of WHO is:
 - 50th percentile
 - 60th percentile
 - 70th percentile
 - 97th percentile
- If a 95% Confidence Interval for prevalence of Cancer in Smokers aged >65 years is 56% to 76%, the chance that the prevalence could be less than 56% is:
 - Practically NIL
 - 0.44
 - 0.025
 - 0.05
- Oral iron Pills or iron injections must be taken along with:
 - High doses of Vitamin A
 - High doses of Vitamin C
 - High doses of Essential fatty acids
 - High doses of Vitamin D
- 3-Million Plan was proposed by:
 - Kartar Singh Committee
 - Mudaliar Committee
 - Srivastava Committee
 - Bhore Committee

11. The highest rate of infant mortality in india is reported from:
 - a) Madhya Pradesh
 - b) Bihar
 - c) Uttar Pradesh
 - d) Orissa
12. Kuppaswamy scale considers all except
 - a) Education
 - b) Income
 - c) Housing
 - d) Occupation
13. Absolute contraindication of IUCD is:
 - a) Anemia
 - b) Diabetes
 - c) PID
 - d) Hemorrhage
14. Annual Under-five deaths globally reported are:
 - a) 6 million
 - b) 4.8 million
 - c) 10 million
 - d) 12 million
15. Endemic ascites is caused by
 - a) Argemone Mexicana seed
 - b) Khesari dal
 - c) Jhunjhunja seeds
 - d) Ergot poisoning
16. Mean, Medium and Mode are:
 - a) Measure of dispersion
 - b) Measure association between two variables
 - c) Test of significance
 - d) Measure of central tendency
17. All of the following are most important and potential agents which can be used for Bio-terrorism except:
 - a) Smallpox
 - b) Plague
 - c) Botulism
 - d) Tuberculosis
18. Amount of calcium in human milk in 100ml:
 - a) 28 mg
 - b) 48 mg
 - c) 34 mg
 - d) 60 mg
19. Acculturation may take place by:
 - a) Education
 - b) Industrialization
 - c) Trade and commerce
 - d) All of the above
20. X-ray Protective shield is made up of:
 - a) Copper
 - b) Lead
 - c) Iron
 - d) Platinum

Section - 2

Q.2. Write Long answer question (1 out of 2)

1. Discuss Primary, secondary and tertiary levels of intervention in type -2 Diabetes(2+4+4) 10
2. Write epidemiology, prevention and control measure of dengue in details. (3+7)

Q.3. write/ comment short answers (any 2 out of 3)

1. Juvenile delinquency 10
2. Food adulteration
3. Social Media and health

Q.4. Write answers/reasons in One or two lines

1. Nikshay poshan yojana. 20
2. Kasturba poshan shahay
3. What is social security. Give examples.
4. Write modifiable risk factors for in Cancers
5. Write route of administration and schedule for fractional dose of Inactivated Polio Vaccine
6. List four live vaccines

7. Write mode of transmission of leptospirosis
8. Growth Vs development
9. Define SAM
10. Four warning signs of poor mental health

Section - 3

- Q.5. Long answers questions (1 out of 2) 10**
1. What are the components of post natal check up? What measures can be taken to improve post natal care at community level?(3+7)
 2. What is pneumoconiosis? What are various measures for prevention of occupational disease.(3+7)
- Q.6. write/ comment short answers (any 2 out of 3) 10**
1. Environmental factors in Malaria transmission in urban areas
 2. Fiduciary duty and doctors
 3. Ergonomics
- Q.7. write short notes on the following (5 out of 6 each carries 4 marks) 20**
1. Occupational cancers
 2. Prevention of sickle cell diseases in India.
 3. Barriers in Communications
 4. ESIS act
 5. Notifiable diseases India
 6. Monday morning sickness
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RAN-2406000103010501-S

Third Year MBBS (Part - I) Examination January - 2026

Forensic Medicine & Toxicology (New)

Time: 3 Hours]

[Total Marks: 100

<p>સૂચના : / Instructions</p> <ol style="list-style-type: none"> (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) Draw table or diagram wherever it is needed. (3) Figures to the right indicate full marks of the question. (4) All questions are compulsory. (5) There are two sections in this question paper. Answer both the sections in separate answer sheets. (6) Write answers according to the question only. Writing anything which is not asked won't be counted for Marks 	<p>Seat No.:</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table> <div style="border: 1px solid black; width: 100%; height: 100%; margin-top: 10px;"> <p style="text-align: center;">Student's Signature</p> </div>						

Section -I

- Q. 1** Classify thermal injuries. Enumerate various causes of death following burns. Write postmortem findings in case of death due to flame burns. (2+3+5) 10
- Q. 2** **Applied Questions. (Write any 2 out of 3)** 12
1. The police found the unknown fetus from the dump yard with umbilical cord and placenta attached to it; they sent it for postmortem examination. On examination fetal length is 30 cm. Answer the following questions:
 - a) Calculate the gestational age of this fetus. (1)
 - b) How will you perform Hydrostatic test-in this case? (2)
 - c) Enumerate signs of dead born fetus. (2)
 - d) What is superfecundation? (1)
 2. A 25 year old male sustained injury in right eye when quarrel with his neighbour and developed right corneal opacity. His left eye was already having poor vision. Corneoplasty performed and vision was restored.
 - a) Medicolegally which type of injury is this and under which section of BNS is it defined? (1)
 - b) Enumerate the various clauses of this BNS. (4)
 - c) Mention the punishment of such type of injury. (1)
 3. A 24 year old married female jumped from bridge into the river. After 12 hours her dead body recovered from river, away from the fall site. On examination, white frothy discharge from both nostrils seen and there is no any abnormal smell perceived from the froth. Answer the following questions:
 - a) What are the possibilities of cause of death in this case? (1)
 - b) What are the characteristics of froth in case of drowning? (2)
 - c) What are the lung findings in this case? (3)

- Q. 3** **Short notes (Write any 4 out of 5)** **16**
1. Oral evidence
 2. Tattoo marks
 3. Livor mortis
 4. Entry wound in case of rifled firearm
 5. Methods of criminal abortion

- Q. 4** **Give answer in two or three sentences. (Write any 6 out of 7)** **12**
1. What is beating heart donor?
 2. Diastatic fracture
 3. Bastinado
 4. What is negative autopsy?
 5. Palmer's sign
 6. What is statutory rape?
 7. Voyeurism

Section -II

- Q. 1** Classify poisons based on its actions and manifestations. Write clinical features and management of organophosphate compound (OPC) poisoning. What are the autopsy findings in OPC poisoning? (4+4+2) **10**

- Q. 2** **Applied questions. (Write any 2 out of 3)** **12**
1. During the below knee amputation surgery, surgeon done the procedure on the wrong side of limb. In the present scenario.
 - a) Which type of doctrine apply in this case? (1)
 - b) Enumerate other examples of this doctrine. (1)
 - c) What are the punishments given for this negligence? (1)
 - d) What are the various defenses available against negligence? (3)
 2. A 40 year old female came to OPD with abnormal behavior. History reveals that she strongly believes that she has some serious incurable disease like cancer, but all the investigations are normal & explained to her, but her belief persists:
 - a) Give the probable diagnosis in this case. (1)
 - b) Enumerate various types of it. (3)
 - c) Write about the medicolegal importance of it. (2)
 3. A 16 year old boy came to emergency ward with c/o having snake bite on his leg and localized swelling with bleeding present on bite site. His father brought the dead snake with him, having flat triangular head with three rows of diamond shaped spots on back. Give answers to the following questions:
 - a) Which type of snake bite is it? (1)
 - b) Enumerate signs and symptoms he will develop? (2)
 - c) Which management will you give in this case? (2)
 - d) What is dry bite? (1)

- Q. 3** **Short notes (Write any 4 out of 5)** **16**
1. Infamous conduct
 2. Gastric lavage
 3. Civil responsibility in case of insane
 4. Features of corrosive poisons
 5. Typical D's of datura poisoning

Q. 4 **Answer in two or three sentences (Write any 6 out of 7)**

12

1. McEwan's Sign
 2. Kleptomania
 3. Body Packer syndrome
 4. Phossy jaw
 5. Opisthotonus
 6. Pink disease
 7. Suis
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