

Q.P. Code:

Reg. no.:

Third Professional BHMS Degree Examinations
Community Medicine

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Q1. Multiple choice Questions (MCQ)

(1x10=10)

a. Environmental factors other than psychosocial ones capable of producing abnormal human behaviour include all except

- A. Toxic substances like carbon disulfide and mercury.
- B. Psychotropic drugs – barbiturates and alcohol
- C. Nutritional factors - deficiency of riboflavin
- D. Minerals -deficiency of iodine.

b. The period of time needed for the development of parasite from Gamatocyte to Sporozoite stage in the body of Mosquito is about 10 to 20 days. This period is known as

- A. Generation time
- B. Schizogony
- C. Extrinsic Incubation Period
- D. Erythrocytic cycle.

c. Non-contraceptive health benefits of Oral Pills include -

- A. Benign breast disorders including fibrocystic disease and fibroadenoma
- B. Ovarian cysts and Ovarian cancer
- C. Pelvic inflammatory disease and Ectopic pregnancy
- D. All of the above

d. Which of the following statements are correct ?

1. Breast-feeding be initiated within 6 hours of birth
2. Indian women secrete 600 to 800 ml of milk per day during the 1st year
3. Secondary haemorrhage - Bleeding from vagina any time from **6 hrs** after delivery to the end of puerperium(**6 weeks**) due to retained placenta or membranes
4. Good pains for an hour after rupture of membranes, but no progress is a “Danger Signals” during labour

Select correct answer using the code given below

- A. 1, 2, 3 and 4
- B. 2, 3, and 4
- C. 3 and 4
- D. 2 and 3

e. Which of the following statement is /are Correct

1. Composting is a method of combined disposal of refuse and nightsoil or sludge
2. The heat produced during composting, about 80 deg C or higher, over a period of several days
3. The end-product - compost - contains few or no disease producing organisms, and is a good soil builder
4. Bangalore method of composting is also known as Aerobic method

Select correct answer using the code given below

- A. 1, 2 and 3
- B. 1 and 3
- C. 2, 3 and 4
- D. 2 and 3

f. Which of the following statement is /are Correct

1. In the raw state, pulses have anti-nutritional factors such as Nitrates and tannins
2. The recommended daily intake of green leafy vegetables is about 60 g for an adult.
3. An egg weighing 60 grams contains 16 g of protein, 16 g of fat, 30 mg of calcium and 1.5 mg of iron, and supplies about 70 kcal of
4. Meat poultry contains 20.8 g Protein and Pulses contain 22.8 g protein per 100 gram raw weight

Select correct answer using the code given below

- A. 4 only
- B. 3 and 4
- C. 1, 2, and 4
- D. 2 and 3

g. Health systems strengthening include

- A. Increase health expenditure by Government as a percentage of GDP from the existing 1.15% to 2.5% by 2025.
- B. Increase state sector health spending to > 8% of their budget .
- C. Decrease in proportion of households facing catastrophic health expenditure from the current levels by 25% by 2025
- D. All of the above

h. Environmental control of Arthropod include all except:

- A. Environmental manipulation- elimination of breeding places (source reduction); filling and drainage operation;
- B. Carefully planned water management; provision of piped water supply;
- C. Cleanliness in and around houses,
- D. The use of larvivorous fish especially Gambusia

i. Human Development Index (HDI) composite index of

1. Life expectancy at the age one;
2. Mean years of schooling

3. The ability to achieve decent standard of living,
4. It is calculated by the formula $\frac{\text{Actual Value} - \text{Minimum value}}{\text{Maximum value} - \text{Minimum value}}$
Select correct answer using the code given below
 - A. 4 only
 - B. 1, 3 and 4
 - C. 2, 3 and 4
 - D. 1, 2 and 3

j. Medical sociology includes:

- A. Studies of the medical profession,
- B. Studies of the relationship of medicine to public,
- C. The social factors in the aetiology, prevalence, incidence and interpretation of disease.
- D. All of the above

Q2 Short Answer Questions (SAQ)

5x8=40 marks

2. Differentiate between Silicosis and Asbestosis
3. WHO Criteria for diagnosis of AIDS and Laboratory investigations of a suspected case of HIV infection (4+4=8 marks)
4. Intrauterine Contraceptive Device- its mechanism of action; Change of IUD and ideal IUD candidate , Contraindications (2+2+2+2=8 marks)
5. Discuss the objectives, frequencies , and components of Antenatal Care.
6. Enumerate the Early warning sign of poor Mental health & the type of mental disorders
7. Discuss the prevention and Control of Air Pollution
8. Describe the Levels of Health care in India and list the components of Primary Health care
9. Explain the concept of the iceberg phenomenon in human disease and the spectrum of health and disease

Q3 Long Answer Question (LAQ)

10x5= 50 marks

10. Mr Raju aged 50 yrs with history of travel to Orissa present to your Dispensary with condition of High Fever and chills. His Peripheral smear shows Malarial parasite
 - A. What are the species of Malarial parasite seen in India.
 - B. Discuss the steps involved in Prevention and Control of Malaria,
 - C. Describe the measures that can be adopted for eradicating of Malaria

(2+6+2=10 marks)
11. During the community survey in a tribal area a lot of children below the age of 6 years

were screened positive for malnutrition. As a Community Medical Officer describe the medical and social measures you would suggest to manage this public health problem. Add a note on deficiency manifestations of Vitamin A (7+3=10 marks)

12. Mrs. Suma , 27-year-old antenatal mother with obstetric score G1P0L0, with 12 weeks gestation period is referred by an A SHA worker.

- A. Enumerate the objectives of Ante-natal Care
- B. Identify the complications like to develop in Antenatal natal period
- C. Mention the important Laboratory investigation recommended
- D. Dietary advice you can give (2+3+3+2=10 marks)

13. Define the terms “Gross Reproduction Rate (GRR) and Net Reproduction Rate (NRR), Eligible couple, Couple protection rate and importance of Birth interval(4+2+2+2=10)

14. An outbreak of Food poisoning occurs nearby your dispensary. As a medical officer describe the investigation of an outbreak of food poisoning and the measures to control the food Poisoning. (7+3=10 marks)
