Q.1 Effective primary health care programs require constant overseeing at the activities and effectiveness of intervention strategies employed for specific problem.

a) Enlist drawbacks of previous old health information system.

b) What are the changes adopted in new health management information system?

Q.2 The purpose of health planning is to meet the health needs and demands of the people.

a) Differentiate between health needs and demands.

b) Enlist various functions of management.

Q.3 A survey on religious beliefs and functions of management should be conducted in the general population. A sample of 2500 persons is to be studied.

a) Which sampling technique would you use to ensure that each religion in the sample?

b) Enumerate the steps of this particular type of sampling technique.

c) Enlist different types of sampling techniques.

Q.4 a) According to the census of 2010, the population of a district is 50,000 and the growth rate is 1.5%. For the year 2016 estimate the total population.

b) In how many years the population of this district will double?

Q.5 International health has been extended to global health, emphasizing global health issues.

a) What is meant by term globalization?

b) Enumerate global health problems and growing global health issues.
Q.6 In a group of 900 people, FBS test was applied to screen out diabetes. FBS test detected 700 person as diabetic and 200 as non-diabetic GTT was applied to confirm the diseased and non-diseased person which labelled 600 as diabetic and 100 as nondiabetic from amongst the all positives on FBS. It labelled 160 as nondiabetic and 40 as diabetic amongst all the negatives on FBS test.

a) Make 2x2 table for the data given above.

b) How will you calculate sensitivity, specificity, PPV and NPV and diagnostic accuracy of FBS test?

Q.7 An outbreak of gastrointestinal disease in a hostel due to intake of spaghetti contaminated by a food handler followed the pattern shown in the graph.

[Graph showing the number of cases by day of onset]

a) What is the name given to this type of epidemic?

b) What factor determines the speed of spread of such outbreaks in a community?

c) Enumerate three benefits of monitoring time trends of diseases in the population?
Q.8 Researcher conducted a study to find out the relationship of smoking with coronary heart diseases in population of city X.

   a) What types of study design will be used to carry out this study?
   b) How will you measure the association of smoking with CHD?
   c) What are the guidelines for finding whether the association is causal?

Q.9 Primary health care is an integral part of a country's health system.

   a) As a public health physician which steps you will follow for planning primary health care system?
   b) What are the key concepts in primary health care planning?

Q.10 Routine immunization coverage rate is very low in the country.

   a) As an incharge of a first level care facility how would you communicate to the parents for getting their children completely immunized after birth.
   b) What barriers of communications you may encounter in this process of embarking coverage rate?
<table>
<thead>
<tr>
<th>SAMPLE PAPER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCPS</td>
</tr>
<tr>
<td>SUBJEC: COMMUNITY MEDICINE</td>
</tr>
</tbody>
</table>
Q. 16. What are the complications associated with the disease that caused the mother to be admitted to hospital? (5)

Q. 17. A boy of age 14 years complains of fever, for the last 5 weeks, which preceded by sore throat and accompanied by tachycardia, pain and jerky movements of the legs. Experiences from the past showed that the damage caused was greater and more serious.

Q. 18. A mother brings her first child who is 15 months old to the hospital. What guidelines will you give to the mother regarding the immunization of the child? Justify your answer.

Q. 15. In certain African countries, haemorrhagic fever is prevalent.

a) What is the incubation period and mode of transmission of this disease from a patient to hospital staff and other patients in the hospital?

b) How would you ensure prevention for occurrence of this disease in hospital? (10)

Q. 14. Certain places in certain districts in Africa suffer from meningitis, how will you ensure prevention for occurrence of this disease in hospital? (10)
Q.19 During her third antenatal visit, a 35 years old pregnant woman complained of swelling of feet and tightening of rings on fingers. On examination her blood pressure was 150/110 and on investigation, she had albuminuria.

a) What is the likely diagnosis?
b) How would you prevent this condition in pregnant women?
c) Enumerate three blood screening tests that should be done on pregnant women during antenatal visits.

Q.20 a) What are various parasites of medical importance in Pakistan?
b) Enlist three types of association between a host and a parasite to suite them.