

Learning objectives of Phase I

Topic : Concept of Health and Disease									
No.	Competencies	Domains K/S/A/C	Level K/KH/S H/P	Core Y/N	Suggested T/L Method	Suggested Assessment Method	No. required to certify	Vertical Integration	Horizontal Integration
CM 1.1	Define and describe the concept of Public Health	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the phase I students must be able to define public health, as defined by WHO.	K	KH	Y	Lecture	Written / Viva Voce			
2	At the end of session the phase I students must be able to describe concept of disease control in public health	K	KH	Y	Lecture	Written / Viva Voce			
3	At the end of session the phase I students must be able to describe health promotional phase of public health.	K	KH	Y	Lecture	Written / Viva Voce			
4	At the end of session the phase I students must be able to describe social engineering phase of public health.	K	KH	Y	Lecture	Written / Viva Voce			
5	At the end of session the phase I students must be able to describe "health for all" phase of public health.	K	KH	Y	Lecture	Written / Viva Voce			
6	At the end of session the phase I students must be able to describe must be able to describe the role of public health & its importance a recent time	K	KH	Y	Lecture	Written / Viva Voce			
CM 1.2	Define health; describe the concept of holistic health including concept of spiritual health and the relativness and determinants of health	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the phase I students must be able to define health, as defined by WHO.	K	KH	Y	Lecture	Written / Viva Voce			
2	At the end of session the Phase I students must be able to describe at least five important dimensions of health.	K	KH	Y	Lecture	Written / Viva Voce			
3	At the end of session the Phase I student must be able to describe at least five determinants of health.	K	KH	Y	Lecture	Written / Viva Voce			
4	At the end of session the Phase I student must be able to describe concept of Holistic Health correctly with suitable examples.	K	KH	Y	Lecture	Written / Viva Voce			
5	At the end of session the Phase I student must be able to describe concept of spiritual Health with suitable examples.	K	KH	Y	Lecture	Written / Viva Voce			

6	At the end of session the Phase I student must be able to describe concept of Spectrum of Health (Positive Health to Death) correctly.	K	KH	Y	Lecture	Written / Viva Voce			
7	At the end of session the Phase I student must be able to describe 'concept of well being' with appropriate indices correctly.	K	KH	Y	Lecture	Written / Viva Voce			
CM 1.3	Define the characteristics of agent, host and environmental factors in health and disease and multi factorial aetiology of disease.	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the Phase I students must be able to describe the concept of disease correctly.	K	K	Y	Lecture	Written / Viva Voce			
2	At the end of session the Phase I students must be able to describe germ theory of disease with its limitations.	K	K	Y	Lecture	Written / Viva Voce			
3	At the end of session the Phase I students must be able to describe multi factorial causation of disease with suitable examples.	K	K	Y	Lecture	Written / Viva Voce			
4	At the end of session the Phase I students must be able to describe epidemiological triad correctly.	K	K	Y	Lecture	Written / Viva Voce			
5	At the end of session the Phase I students must be able to describe Agent Factors in Health & Disease correctly.	K	K	Y	Lecture	Written / Viva Voce			
6	At the end of session the Phase I students must be able to describe Host Factors in Health & Disease correctly.	K	KH	Y	Lecture	SAQ			
7	At the end of session the Phase I students must be able to describe Environmental Factors in Health & Disease correctly.	K	KH	Y	Lecture	SAQ			
8	At the end of session the Phase I students must be able to describe Role of risk Factors as agents in non-communicable diseases correctly.	K	KH	Y	Lecture	SAQ			
CM 1.4	Describe and discuss the natural history of disease.	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the Phase I students must be able to describe concept of Web of Causation with suitable example.								
2	At the end of session the Phase I students must be able to describe pre-pathogenesis phase of disease correctly.	K	KH	Y	Lecture	Written / Viva Voce			
3	At the end of session the Phase I students must be able to describe pathogenesis phase of disease correctly.	K	KH	Y	Lecture	Written / Viva Voce			
CM 1.5	Describe the application of interventions at various levels of prevention	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								

1	At the end of session the Phase I students must be able to describe the concept of prevention correctly.	K	KH	Y	Lecture	Written / Viva Voce			
2	At the end of session the Phase I students must be able to describe the various levels of prevention in relation to natural history of disease.	K	KH	Y	Lecture	Written / Viva Voce			
3	At the end of session the Phase I students must be able to describe the modes of intervention at different levels of preventions.	K	KH	Y	Lecture	Written / Viva Voce			
	At the end of session the Phase I students must be able to describe Spectrum of Disease completely.	K	KH	Y	Lecture	Written / Viva Voce			
	At the end of session the Phase I students must be able to describe Iceberg Phenomenon of Disease with suitable examples.	K	KH	Y	Lecture	Written / Viva Voce			
CM 1.6	Describe and discuss the concepts, the principles of health promotion and education, IEC and BCC	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the Phase I students must be able to define Communication as given by Keyton (2011).	K	KH	Y	Lecture	Written / Viva Voce			
2	At the end of session the Phase I students must be able to define Health Promotion as given by WHO.	K	KH	Y	Lecture	Written / Viva Voce			
3	Describe types of communication	K	KH	Y	Lecture	Written / Viva Voce			
4	Describe barriers of communication	K	KH	Y	Lecture	Written / Viva Voce			
5	Describe role of IEC & BCC in health education process	K	KH	Y	Lecture	Written / Viva Voce			
6	Define health education	K	KH	Y	Lecture	Written / Viva Voce			
7	Describe principles of health education	K	KH	Y	Lecture	Written / Viva Voce			
8	Describe modes of health education	K	KH	Y	Lecture	Written / Viva Voce			
	At the end of session the Phase I students must be able to describe methods of health promotion including IEC & BCC.	K	KH	Y	Lecture	Written / Viva Voce			
CM 1.7	Enumerate and describe health indicators	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the Phase I students must be able to enumerate all six characteristics of a good health indicator.	K	KH	Y	Lecture	Written / Viva Voce			
2	At the end of session the Phase I students must be able to enumerate at least ten health indicators.	K	KH	Y	Lecture	Written / Viva Voce			
3	At the end of session the Phase I students must be able to describe at least five important mortality indicators.	K	KH	Y	Lecture	Written / Viva Voce			

4	At the end of session the Phase I students must be able to describe at least two important morbidity indicators.	K	KH	Y	Lecture	Written / Viva Voce			
5	At the end of session the Phase I students must be able to describe disability rates including HALE, QALY, DALY and DFLE.	K	KH	Y	Lecture	Written / Viva Voce			
6	At the end of session the Phase I students must be able to describe three important nutritional indicators	K	KH	Y	Lecture	Written / Viva Voce			
7	At the end of session the Phase I students must be able to describe three important health care delivery indicators	K	KH	Y	Lecture	Written / Viva Voce			
8	At the end of session the Phase I students must be able to describe five important socio-economic health indicators	K	KH	Y	Lecture	Written / Viva Voce			
9	At the end of session the Phase I students must be able to enumerate five special health indicators	K	KH	Y	Lecture	Written / Viva Voce			
10	At the end of session the Phase I students must be able to enumerate four groups of "Health for all" indicators.	K	KH	Y	Lecture	Written / Viva Voce			
11	At the end of session the Phase I students must be able to enumerate eight goal indicators of MDGs.	K	KH	Y	Lecture	Written / Viva Voce			
12	At the end of session the Phase I students must be able to enumerate thirteen targets of goal 3 of SDGs.	K	KH	Y	Lecture	Written / Viva Voce			
13	At the end of session the Phase I students must be able to enumerate four domains of Global Reference list of Core Health Indicators (2018).	K	KH	Y	Lecture	Written / Viva Voce			
14	At the end of session the Phase I students must be able to describe Health Index of India as explained by NITI Aayog.	K	KH	Y	Lecture	Written / Viva Voce			
CM 1.8	Describe the demographic profile of India and discuss its impact on health.	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the Phase I students must be able to describe the importance of Demography in Public Health.	K	KH	Y	Lecture	Written / Viva Voce			
2	At the end of session the Phase I students must be able to describe demography trends in India	K	KH	Y	Lecture	Written / Viva Voce			
3	At the end of session the Phase I students must be able to describe impact of demography factors on health including birth/death rates	K	KH	Y	Lecture	Written / Viva Voce			
4	At the end of session the Phase I students must be able to describe the role of Urban-Rural Divide in Health & Development.	K	KH	Y	Lecture	Written / Viva Voce			
5	At the end of session the Phase I students must be able to describe age and sex composition of Indian population and its impact on health.	K	KH	Y	Lecture	Written / Viva Voce			
6	At the end of session the Phase I students must be able to describe literacy and social status of Indian population and its impact on health.	K	KH	Y	Lecture	Written / Viva Voce			

7	At the end of session the Phase I students must be able to describe current population trend (as per census 2011) and its impact on health.	K	KH	Y	Lecture	Written / Viva Voce			
No.	Competencies	Domains K/S/A/C	Level K/KH/S H/P	Core Y/N	Suggested T/L Method	Suggested Assessment Method	No. required to certify	Vertical Integration	Horizontal Integration
CM 2.1	Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community	S	SH	Y	Lecture/Small group Discussion/ DOAPSession	Written / Viva voce/ Skill assessment			
OBJECTIVES:									
1	At the end of session thePhase I students must be able to classify the tools to perfrom clinico socio cultural and demogrpahic assesemnt of the individual ,family and community	K	KH	Y	Small group discussion	MCQ/PBQ		NA	NA
2	At the end of the session the pahse I students must be able to describe correctly the types of interview.	K	KH	Y	Lecture and small group discussion	MCQ/PBQ		NA	NA
3	At the end of the session the pahse I Students must be able to describe steps of interview.	K	KH	Y	Lecture and small group discussion	MCQ/PBQ		NA	NA
4	At the end of the session the pahse I Students must be able to describe accurately social surveys to assess the clinico socio-cultural and demographic aspects of the community	K	KH	Y	Lecture and small group discussion	MCQ/PBQ		NA	NA
5	At the end of the session the pahse I Students must be able to describe Case study for assessment of clinico socio cultural demographic assessmnet of social unit	K	KH	Y	Lecture and small group discussion	MCQ/PBQ		NA	NA
6	At the end of session the Phase II students must be able to describe field study for assessment of clinico socio cultural demographic assessmnet of population or sample of population	K	KH	Y	Lecture and small group discussion	MCQ/PBQ		NA	NA
7	At the end of session thePhase II students must be able to describe Medical social work for assessment of clinico socio cultural demographic assessmnet of a sick person in the community by Health sevice provider	K	KH	Y	Lecture and small group discussion	MCQ/PBQ		NA	NA
8	At the end of the session the phase II students must be able to practice correctly the doctor patient communication to extract the socio economic and cultural dimensions of the profile of the person.	S	SH	Y	Small group discussion /Role play	PBQ/OSCE		NA	NA

1	At the end of the session the pahse I Students students must be able to describe social Psychology.	K	K	Y	Lecture	SAQ		NA	NA
2	At the end of the session the pahse I Students students must be able to describe social interaction	K	K	Y	Lecture	SAQ		NA	NA
3	At the end of the session the pahse I Students must be able to differentiate Sociology and Medical Sociology	K	K	Y	Lecture	SAQ		NA	NA
4	At the end of the session the pahse I Students must be able to discuss the social organisatiosn/groups correctly.	K	KH	Y	Lecture/small group discussion	MCQ/PBQ		NA	NA
5	At the end of the session the pahse I Students must ne able to differntiate between the structure and functioing of Rural and Urban population especial focus on health services	K	K	Y	Lecture	SAQ		NA	NA
6	At the end of the session the pahse I Students must be able to describe process of community relationship with impact on health	K	K	Y	Lecture	SAQ		NA	NA
7	At the end of the session the pahse I Students students must be able to define social Psychology, Mols, Social Power groups and Control mechanism by legislation or enaetment of law.	K	K	Y	Lecture	SAQ		NA	NA
8	At the end of the session the pahse I Students must be able to describe emotions, habits, behaviour, acculturation role of motivation factors in health & disease	K	K	Y	Lecture	SAQ		NA	NA
9	At the end of the session the pahse I Students must be able to describe pyschosomatic diseases & life style discases & its relaship to our health serleing behavior & sick role	K	K	Y	Lecture	SAQ		NA	NA
CM2.5	Describe poverty and social security measures and its relationship to health and disease	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of the session the pahse I Students must be able to define GDP with its interpretation at the global level.	K	K	Y	Lecture	SAQ		NA	NA
2	At the end of the session the pahse I Students must be able to define correctly GNI	K	K	Y	Lecture	SAQ		NA	NA
3	At the end of the session the pahse I Students must be able to define Purchsing power parity(PPP) with its importance.	K	K	Y	Lecture	SAQ		NA	NA
4	At the end of the session the pahse I Students must be able to describe Poverty and poverty line	K	K	Y	Lecture	SAQ		NA	NA
5	At the end of the session the pahse I Students must be able to define and caluclate Global hunger index in simulated training environment	S	SH	Y	Small group discussion	SAQ		NA	NA
6	At the end of the session the pahse I Students must be able to discuss hidden hunger	K	K	Y	Lecture	SAQ		NA	NA

7	At the end of the session the phase I Students must be able to discuss the effects of hidden hunger on the health of susceptible population	K	KH	Y	Lecture and small group discussion	SAQ		NA	NA
8	At the end of the session the phase I Students must be able to enumerate the social security measures.	K	K	Y	Lecture	SAQ		NA	NA
9	At the end of the session the phase I Students must be able to describe the social security measures of vulnerable group	K	KH	Y	Lecture and small group discussion	SAQ		NA	NA
10	At the end of the session the phase I Students must be able to describe Ayushman Bharat Insurance scheme of GOI with its benefits to the beneficiaries	K	KH	Y	Lecture and small group discussion	SAQ		NA	NA
11	At the end of the session the phase I Students must be able to differentiate the social insurance measures and social assistance schemes	K	KH	Y	Lecture and small group discussion	SAQ		NA	NA
No.	Competencies	Domains K/S/A/C	Level K/KH/S H/P	Core Y/N	Suggested T/L Method	Suggested Assessment Method	No. required to certify	Vertical Integration	Horizontal Integration
CM 3.1	Describe the health hazards of air, water, noise, radiation and pollution	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of the session the phase I Students must be able to describe air pollution & its problem statement correctly.	K	K	Y	Lecture	SAQ		NA	NA
2	At the end of the session the phase I Students must be able to enumerate at sources of Outdoor & Indoor air pollution.	K	K	Y	Lecture	SAQ		NA	NA
3	At the end of the session the phase I Students must be able to enumerate at least Six hazards of air pollution correctly	K	K	Y	Lecture	SAQ		NA	NA
4	At the end of the session the phase I Students must be able to Describe Air Pollution Index and its interpretation correctly.	K	K	Y	Lecture	SAQ		NA	NA
5	At the end of the session the phase I Students must be able to describe at least five strategies for prevention & control of air pollution correctly	K	K	Y	lecture	SAQ		NA	NA
6	At the end of the session the phase I Students must be able to describe water pollution correctly	K	K	Y	Lecture	SAQ		NA	NA
7	At the end of session the phase I students must be able to enumerate sources of water pollution correctly	K	K	Y	Lecture	SAQ			
8	At the end of session the phase I students must be able to enumerate hazards of water pollution correctly	K	K	Y	Lecture	SAQ		NA	NA
9	At the end of session the phase I students must be able to describe strategies for prevention & control of water pollution correctly								
10	At the end of session the phase I students must be able to define noise pollution correctly	K	K	Y	Lecture	SAQ		NA	NA

11	At the end of session the phase I students must be able to enumerate effects of noise pollution (both Auditory & non-auditory).	K	K	Y	Lecture	SAQ		NA	NA
12	At the end of session the phase I students must be able to describe measures for prevention & control of Noise pollution.	K	K	Y	Lecture	SAQ		NA	NA
13	At the end of session the phase I students must be able to differentiate between different types of radiation correctly	K	K	Y	Lecture	SAQ		NA	NA
14	At the end of session the phase I students must be able to list immediate & effects of radiation upon human body	K	K	Y	Lecture	SAQ		NA	NA
CM 3.2	Describe the concept of safe and wholesome water, sanitary sources of water, water purification processes, water quality standards, concepts of water conservation and rain water harvesting	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the phase I students must be able to define safe and wholesome water as given by WHO correctly	K	K	Y	Lecture	SAQ		NA	NA
2	At the end of session the Phase I student must be able to enumerate different sources of water correctly	K	K	Y	Lecture	SAQ		NA	NA
3	At the end of session the Phase I students must be able to describe the methods of water purification on large scales & small scales correctly	K	K	Y	Lecture	SAQ		NA	NA
4	At the end of session the Phase I students must be able to describe the working of slow sand filter correctly	K	KH	Y	Lecture	SAQ		NA	NA
5	At the end of session the Phase I students must be able to describe the working	K	KH	Y	Lecture	SAQ		NA	NA
6	At the end of session the Phase I students must be able to enumerate all the methods of disinfection of water.	K	KH	Y	Lecture	SAQ		NA	NA
7	At the end of session the Phase I students must be able to describe break point chlorination correctly	K	K	Y	Lecture	SAQ		NA	NA
8	At the end of session the Phase I students must be able to describe superchlorination correctly	K	K	Y	Lecture	SAQ		NA	NA
9	At the end of session the Phase I students must be able to describe orthotolidine test correctly	K	KH	Y	Lecture	SAQ		NA	NA
10	At the end of session the Phase I students must be able to describe orthotolidine arsenate test correctly	K	KH	Y	Lecture	SAQ		NA	NA
11	At the end of session the Phase I students must be able to describe ozonation of water correctly	K	KH	Y	Lecture	SAQ		NA	NA
12	At the end of session the Phase I students must be able to describe high & low pressure membrane processes correctly	K	KH	Y	Lecture	SAQ		NA	NA
13	At the end of session the Phase I students must be able to enumerate the methods of household water purification correctly	K	KH	Y	Lecture	SAQ		NA	NA

14	At the end of session the Phase I students must be able to describe purification of water by boiling correctly	K	KH	Y	Lecture	SAQ		NA	NA
15	At the end of session the Phase I students must be able to describe household ultra violet irradiation of water correctly	K	KH	Y	Lecture	SAQ		NA	NA
16	At the end of session the Phase I students must be able to describe double pot method of well disinfection	K	KH	Y	Lecture	SAQ		NA	NA
17	At the end of session the Phase I students must be able to enumerate all the 4 variables of the WHO guidelines for drinking water quality correctly	K	K	Y	Lecture	SAQ		NA	NA
18	At the end of session the Phase I students must be able to describe physical & Chemical aspect parameters of acceptability aspect of WHO guidelines for drinking water quality correctly	K	K	Y	Lecture	SAQ		NA	NA
19	At the end of session the Phase I students must be able to describe inorganic constituents under the acceptability aspect of WHO guidelines for drinking water quality correctly	K	K	Y	Lecture	SAQ		NA	NA
20	At the end of session the Phase I students must be able to describe bacteriological Urological indicators under the microbiological aspect of WHO guidelines for drinking water quality correctly	K	K	Y	Lecture	SAQ		NA	NA
21	At the end of session the Phase I students must be able to describe the upper limits of atleast 6 health related inorganic constituents present in water correctly	K	KH	Y	Lecture	SAQ		NA	NA
22	At the end of session the Phase I students must be able to describe the upper limits of atleast 6 health related organic constituents present in water correctly	K	KH	Y	Lecture	SAQ		NA	NA
23	At the end of session the Phase I students must be able to enumerate atleast 4 pesticides present in water correctly	K	K	Y	Lecture	SAQ		NA	NA
24	At the end of session the Phase I students must be able to describe the upper limits of atleast 4 pesticides present in water correctly	K	K	Y	Lecture	SAQ		NA	NA
25	At the end of session the Phase I students must be able to discuss the drinking water consumption in relation to body weight correctly	K	K	Y	Lecture	SAQ		NA	NA
26	At the end of session the Phase I students must be able to describe radiological aspects of WHO guidelines for drinking water quality correctly	K	K	Y	Lecture	SAQ		NA	NA
27	At the end of session the Phase I students must be able to enumerate the elements of the surveillance programme for drinking water quality correctly	K	K	Y	Lecture	SAQ		NA	NA

28	At the end of session the Phase I students must be able to describe all the elements of the surveillance programme for drinking water quality correctly	K	K	Y	Lecture	SAQ		NA	NA
29	At the end of session the Phase I students must be able to describe the sanitary survey correctly	K	K	Y	Lecture	SAQ		NA	NA
30	At the end of session the Phase I students must be able to describe the sampling of water for surveillance correctly	K	K	Y	Lecture	SAQ		NA	NA
31	At the end of session the Phase I students must be able to describe the bacteriological surveillance correctly	K	K	Y	Lecture	SAQ		NA	NA
32	At the end of session the Phase I students must be able to describe the biological examination of water correctly	K	K	Y	Lecture	SAQ		NA	NA
33	At the end of session the Phase I students must be able to describe the chemical surveillance of water correctly	K	K	Y	Lecture	SAQ		NA	NA
34	At the end of session the Phase I students must be able to describe the hardness of water & its impact on Health	K	K	Y	Lecture	SAQ		NA	NA
35	At the end of session the Phase I students must be able to describe methods to remove hardness of water.	K	K	Y	Lecture	SAQ		NA	NA
36	At the end of session the Phase I students must be able to describe the concept of conservation of water correctly	K	K	Y	Lecture	SAQ		NA	NA
37	At the end of session the Phase I students must be able to describe the rain water harvesting correctly	K	K	Y	Lecture	SAQ		NA	NA
CM 3.3	Describe the aetiology and basis of water borne diseases/ jaundice/hepatitis/ diarrheal diseases	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the phase I students must be able to enumerate all the categories of diseases related to water according to Bradley (1977).	K	K	Y	Lecture	SAQ		NA	NA
2	At the end of session the phase I students must be able to describe role of oro-feecal route of transmission in water borne diseases.	K	K	Y	Lecture	SAQ		NA	NA
3	At the end of session the phase I students must be able to enumerate Water borne diseases.	K	K	Y	Lecture	SAQ		NA	NA
4	At the end of session the phase I students must be able to enumerate Water washed diseases.	K	K	Y	Lecture	SAQ		NA	NA
5	At the end of session the phase I students must be able to enumerate Water based diseases.	K	K	Y	Lecture	SAQ		NA	NA
6	At the end of session the phase I students must be able to enumerate Water related diseases.	K	K	Y	Lecture	SAQ		NA	NA
7	At the end of session the phase I students must be able to describe aetiology of water borne diseases/jaundice/hepatitis/diarrheal diseases.	K	K	Y	Lecture	SAQ		NA	NA

CM 3.4	Describe the concept of solid waste, human excreta and sewage disposal	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the Phase I students must be able to define solid waste correctly	K	K	Y	Lecture	SAQ		NA	NA
2	At the end of session the Phase I students must be able to explain impact of solid waste on environment & health correctly	K	K	Y	Lecture	SAQ		NA	NA
3	At the end of session the Phase I students must be able to enumerate all the methods of waste management of solid waste correctly.	K	K	Y	Lecture	SAQ		NA	NA
4	At the end of session the Phase I students must be able to describe Dumping of solid waste with its key advantages & disadvantage.	K	KH	Y	Lecture	SAQ		NA	NA
5	At the end of session the Phase I students must be able to describe controlled tipping as a waste management method correctly.	K	KH	Y	Lecture	SAQ		NA	NA
6	At the end of session the Phase I students must be able to describe composting as a waste management method correctly.	K	K	Y	Lecture	SAQ		NA	NA
7	At the end of session the Phase I students must be able to describe Incineration as a waste management method correctly.	K	KH	Y	Lecture	SAQ		NA	NA
8	At the end of session the Phase I students must be able to describe manure pit as a waste management method correctly.	K	KH	Y	Lecture	SAQ		NA	NA
9	At the end of session the Phase I students must be able to describe Burial as a waste management method correctly with its advantages & disadvantages.	K	KH	Y	Lecture	SAQ		NA	NA
10	At the end of session the Phase I students must be able to describe the public health importance of human excreta	K	KH	Y	Lecture	SAQ		NA	NA
11	At the end of session the Phase I students must be able to describe sanitation barrier correctly	K	KH	Y	Lecture	SAQ		NA	NA
12	At the end of session the Phase I students must be able to enumerate the methods of excreta disposal correctly	K	KH	Y	Lecture	SAQ		NA	NA
13	At the end of session the Phase I students must be able to describe service type latrines and including water seal type of latrines correctly.	K	KH	Y	Lecture	SAQ		NA	NA
14	At the end of session the Phase I students must be able to describe service Non-service type (Sanitary Latrines) including water seal type of latrines correctly.	K	KH	Y	Lecture	SAQ		NA	NA

15	At the end of session the Phase I students must be able to describe Latrines suitable for camps & temporary use correctly.	K	KH	Y	Lecture	SAQ		NA	NA
16	At the end of session the Phase I students must be able to describe Swachh Bharat Mission with its three key strategies correctly.	K	KH	Y	Lecture	SAQ		NA	NA
17	At the end of session the Phase I students must be able to define sewage correctly	K	KH	Y	Lecture	SAQ		NA	NA
18	At the end of session the Phase I students must be able to discuss environmental and health problems related to sewage disposal correctly.	K	KH	Y	Lecture	SAQ		NA	NA
19	At the end of session the Phase I students must be able to explain the aims of sewage disposal including BOD & COD of sewage correctly.	K	KH	Y	Lecture	SAQ		NA	NA
20	At the end of session the Phase I students must be able to describe the stages of primary treatment and secondary treatment of sewage	K	K	Y	Lecture	SAQ		NA	NA
21	At the end of session the Phase I students must be able to describe of secondary treatment of sewage	K	K	Y	Lecture	SAQ		NA	NA
22	At the end of session the Phase I students must be able to explain the methods of Sludge Digestion correctly	K	K	Y	Lecture	SAQ		NA	NA
23	At the end of session the Phase I students must be able to explain the methods of disposal of effluent correctly	K	K	Y	Lecture	SAQ		NA	NA
24	At the end of session the Phase I students must be able to describe land treatment (sewage farming) correctly.	K	K	Y	Lecture	SAQ		NA	NA
25	At the end of session the Phase I students must be able to discuss the social aspects of excreta disposal in India	K	KH	Y	Lecture	SAQ		NA	NA
CM 3.5	Describe the role of vectors in the causation of diseases. Also discuss National Vector Borne Disease Programme	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the Phase I students must be able to enumerate Arthropods of Medical Importance correctly	K	K	Y	Lecture	SAQ		NA	NA
2	At the end of session the Phase I students must be able to enumerate vector borne diseases with their vectors	K	K	Y	Lecture	SAQ		NA	NA
3	At the end of session the Phase I students must be able to describe transmission of Arthropod borne diseases.	K	K	Y	Lecture	SAQ		NA	NA
4	At the end of session the Phase I students must be able to describe principals of arthropod control in National Vector Borne Disease Programme correctly.	K	K	Y	Lecture	SAQ		NA	NA
5	At the end of session the Phase I students must be able to describe National Framework for Malaria Elimination (2016-2030) in India with its goals, Objectives & strategies correctly.	K	K	Y	Lecture	SAQ		NA	NA

6	At the end of session the Phase I students must be able to describe Elimination of Lymphatic Filariasis Program with its Objectives & strategies correctly.	K	K	Y	Lecture	SAQ		NA	NA
7	At the end of session the Phase I students must be able to describe National KALA-AZAR Elimination Program with its Objectives & strategies correctly.	K	K	Y	Lecture	SAQ		NA	NA
8	At the end of session the Phase I students must be able to describe National program for prevention and control of JE/AES with its Objectives & strategies correctly.	K	K	Y	Lecture	SAQ		NA	NA
9	At the end of session the Phase I students must be able to describe long term strategies for prevention & control of Dengue/Chickungunya correctly.	K	K	Y	Lecture	SAQ		NA	NA
10	At the end of session the Phase I students must be able to describe integrated vector management in NVBDCP correctly.	K	K	Y	Lecture	SAQ		NA	NA
CM 3.7	Identify and describe the identifying features and life cycles of vectors of public health importance and their control measures	S	SH	Y	Lecture/ small group discussion	SAQ		NA	NA
	OBJECTIVES:								
1	Must be able to identify all vectors of public health importance in museum & real								
2	environment & capable of spotting slides under microscope correctly								
3	must be able to draw diagrams of different stages life cycle of each vector separately & correctly								
4	Must be able to describe methods of control of vectors of public health importance at different stages of their life cycle								
CM 3.8	Describe the mode of action, application cycle of commonly used insecticides and rodenticides	K	K	Y	Lecture/ small group discussions	SAQ		NA	NA
	OBJECTIVES:								
1	At the end of session the Phase I students must be able to define insecticides correctly	K	KH	Y	Lecture	SAQ		NA	NA
2	At the end of session the Phase I students must be able to classify the Insecticides into 3 groups depending on their actions	K	KH	Y	Lecture	SAQ		NA	NA
3	At the end of session the Phase I students must be able to enumerate at least seven insecticides used in vector control program.	K	KH	Y	Lecture	SAQ		NA	NA

4	At the end of session the Phase I students must be able to describe the application of malathion able to describe the made of action of commonly used insecticides recurately	K	KH	Y	Lecture	SAQ		NA	NA
5	Made of action of commonly used rodementicides accuralety	K	KH	Y	Lecture	SAQ		NA	NA
No.	Competencies	Domains K/S/A/C	Level K/KH/S H/P	Core Y/N	Suggested T/L Method	Suggested Assessment Method	No. required to certify	Vertical Integration	Horizontal Integration
CM 5.1	Describe the common sources of various nutrients and special nutritional requirements according to age, sex, activity, physiological conditions	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the Phase I students must be able to define nutrition, as defined by WHO.	K	K	Y	Lecture	Written / Viva Voce			NA
2	At the end of session the Phase I students must be able to describe various classifications of food.	K	K	Y	Lecture	Written / Viva Voce			NA
3	At the end of session the Phase I students must be able to enumerate various sources & function of proteins	K	K	Y	Lecture	Written / Viva Voce			NA
4	At the end of session the Phase I students must be able to describe various types & sources of fats	K	K	Y	Lecture	Written / Viva Voce			NA
5	At the end of session the Phase I students must be able to enumerate various functions of fats	K	K	Y	Lecture	Written / Viva Voce			NA
6	At the end of session the Phase I students must be able to describe various types of & sources of carbohydrates	K	K	Y	Lecture	Written / Viva Voce			NA
7	At the end of session the Phase I students must be able to describe glycaemic index	K	K	Y	Lecture	Written / Viva Voce			NA
8	At the end of session the Phase I students must be able to enumerate various functions of carbohydrates	K	K	Y	Lecture	Written / Viva Voce			NA
9	At the end of session the Phase I students must be able to describe requirement of carbohydrates fat & proteins according to age, sex, activity, physiological status	K	K	Y	Lecture	Written / Viva Voce			NA
10	At the end of session the Phase I students must be able to describe various types of vitamins	K	K	Y	Lecture	Written / Viva Voce			NA
11	At the end of session the Phase I students must be able to enumerate various functions of vitamins	K	K	Y	Lecture	Written / Viva Voce			NA
12	At the end of session the Phase I students must be able to enumerate various sources of vitamins	K	K	Y	Lecture	Written / Viva Voce			NA
13	At the end of session the Phase I students must be able to describe requirement of vitamins according to age, sex, activity, physiological status	K	K	Y	Lecture	Written / Viva Voce			NA
14	At the end of session the Phase I students must be able to describe various types & sources of minerals	K	K	Y	Lecture	Written / Viva Voce			NA

15	At the end of session the Phase I students must be able to enumerate various functions of minerals	K	K	Y	Lecture	Written / Viva Voce			NA
16	At the end of session the Phase I students must be able to describe requirement of minerals according to age, sex, activity, physiological status	K	K	Y	Lecture	Written / Viva Voce			NA
CM 5.3	Define and describe common nutrition related health disorders, their control and management	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session the Phase I students must be able to define Low Birth weight	K	K	Y	Lecture	Written / Viva Voce			NA
3	At the end of session the Phase I students must be able to describe control and management of Low Birth weight	K	K	Y	Lecture	Written / Viva Voce		Pediatrics	NA
4	At the end of session the Phase I students must be able to define Undernutrition	K	K	Y	Lecture	Written / Viva Voce			NA
5	At the end of session the Phase I students must be able to describe Undernutrition	K	K	Y	Lecture	Written / Viva Voce			NA
6	At the end of session the Phase I students must be able to describe control and management of Undernutrition	K	K	Y	Lecture	Written / Viva Voce		Pediatrics	NA
7	At the end of session the Phase I students must be able to define Xerophthalmia	K	K	Y	Lecture	Written / Viva Voce			NA
8	At the end of session the Phase I students must be able to describe Xerophthalmia	K	K	Y	Lecture	Written / Viva Voce			NA
9	At the end of session the Phase I students must be able to describe control and management of Xerophthalmia	K	K	Y	Lecture	Written / Viva Voce		Pediatrics	NA
10	At the end of session the Phase I students must be able to define Iodine Deficiency Disorders	K	K	Y	Lecture	Written / Viva Voce			NA
11	At the end of session the Phase I students must be able to describe Iodine Deficiency Disorders	K	K	Y	Lecture	Written / Viva Voce			NA
12	At the end of session the Phase I students must be able to describe control and management of Iodine Deficiency Disorders	K	K	Y	Lecture	Written / Viva Voce		Pediatrics, General Medicine	NA
13	At the end of session the Phase I students must be able to define Iodine Endemic Fluorosis	K	K	Y	Lecture	Written / Viva Voce			NA
14	At the end of session the Phase I students must be able to describe Iodine Endemic Fluorosis	K	K	Y	Lecture	Written / Viva Voce			NA
15	At the end of session the Phase I students must be able to describe control and management of Endemic Fluorosis	K	K	Y	Lecture	Written / Viva Voce		Pediatrics, General Medicine	NA
17	At the end of session the Phase I students must be able to describe Iodine Lathyrism	K	K	Y	Lecture	Written / Viva Voce			NA
18	At the end of session the Phase I students must be able to describe control and management of Lathyrism	K	K	Y	Lecture	Written / Viva Voce		General Medicine	NA

19	At the end of session the Phase I students must be able to describe about nutritional factors in Cardio Vascular Diseases	K	K	Y	Lecture	Written / Viva Voce			NA
20	At the end of session the Phase I students must be able to describe about control and management of Cardio Vascular Diseases	K	K	Y	Lecture	Written / Viva Voce		General Medicine	NA
21	At the end of session the Phase I students must be able to describe about nutritional factors in Diabeties	K	K	Y	Lecture	Written / Viva Voce			NA
22	At the end of session the Phase I students must be able to describe about control and management of Diabeties	K	K	Y	Lecture	Written / Viva Voce		General Medicine	NA
23	At the end of session the Phase I students must be able to describe about nutritional factors in Obesity	K	K	Y	Lecture	Written / Viva Voce			NA
24	At the end of session the Phase I students must be able to describe about control and management of Obesity	K	K	Y	Lecture	Written / Viva Voce		General Medicine	NA
25	At the end of session the Phase I students must be able to describe about nutritional factors in Cancer	K	K	Y	Lecture	Written / Viva Voce			NA
26	At the end of session the Phase I students must be able to describe about control and management of Cancer	K	K	Y	Lecture	Written / Viva Voce		General Medicine	NA
CM 6.1	Describe and discuss the principles and demonstrate the methods of collection, classification analysis interpretation and presentation of statistical data	K	KH	Y	Lecture/Small group Discussion	Written / Viva Voce			
	OBJECTIVES:								
1	At the end of session MBBS phase III students must be able to record information in the form of numeric values from different sources of health information								
2	At the end of session MBBS phase III students must be able to identify the type of a variable								
3	At the end , for the classification of the data, session MBBS phase III students must be able to construct a frequency table from the raw data independently								
4	At the end of session MBBS phase III students must be able to construct a frequency a grouped frequency table								
5	At the end of session MBBS phase III students must be able to construct a cross tabulation table.								
6	for the analysis of the data,At the end of session MBBS phase III students must be able to differentiate nominal ordinal metric discrete and metric continuous variables								
7	At the end of session MBBS phase III students must be able to identify the most appropriate chart for a given data type								
8	At the end of session MBBS phase III students must be able to draw histogram simple and multiple bar chart pie chart and line diagram								

9	At the end of session MBBS phase III students must be able to interpret a frequency distribution from a frequency table or chart								
10	At the end of session MBBS phase III students must be able to sketch and describe a normal distribution negatively symmetric and positively skewed distribution								
11	At the end of session MBBS phase III students must be able to interpret and explain what a chart reveals								
CM 6.3	Describe, discuss and demonstrate the application of elementary statistical methods including of test of significance in various study designs.	S	SH	Y	Lecture/Small group Discussion	Written / Viva Voce/ Skill assessment		General Medicine, Pediatrics	
	OBJECTIVES:								
1	I students must be able to describe measures of central Tendency								
2	I students must be able to describe measures of central dispersion								
3	At the end of session the Phase II students must be able to define the probability with its formula.	K	K	Y	Lecture	viva voce		NA	NA
4	At the end of session the Phase II students must be able to discuss the role of probability in statistics.	K	KH	Y	Lecture	written/viva voce		NA	NA
5	At the end of session the Phase II students must be able to describe normal distribution curve and its application in statistics.	K	KH	Y	Lecture	viva voce		NA	NA
6	At the end of session phase II students must be able to discuss the meaning of correlation in statistics.							NA	NA
7	At the end of session phase II students must be able to discuss the meaning of regression in statistics.	K	KH	Y	Lecture	written/viva voce		NA	NA
8	At the end of session phase II must be able to describe testing of hypothesis using statistical tests.	K	K	Y	Lecture	viva voce		NA	NA
9	At the end of session phase II students must be able to describe the chi-square test with formula.	K	K	Y	Lecture	written/viva voce		NA	NA
10	At the end of session phase II students must be able to compute the p-value by applying chi-square test correctly.	S	SH	Y	Small Group Discussion	OSPE		Medicine/ Paediatrics	NA
11	At the end of session the Phase II students must be able to enumerate the types of study designs.	K	KH	Y	Lecture	written/viva voce		NA	NA