EPIDEMIOLOGY & ANALYSIS OF HEALTH INFORMATION DATA (SEMESTER - 4)

CS/HM/SEM-4/BHM-401/09

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2.	Signature of the Officer-in-Charge	Reg. No.										
	Roll No. of t Candidate	he										

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ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2009
EPIDEMIOLOGY & ANALYSIS OF HEALTH INFORMATION DATA (SEMESTER - 4)

Time: 3 Hours [Full Marks: 70

INSTRUCTIONS TO THE CANDIDATES:

- 1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
- 2. a) In **Group A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
 - b) For **Groups B** & **C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group B** are Short answer type. Questions of **Group C** are Long answer type. Write on both sides of the paper.
- 3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
- 4. Read the instructions given inside carefully before answering.
- 5. You should not forget to write the corresponding question numbers while answering.
- 6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
- 7. Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.
- 8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
- 9. Rough work, if necessary is to be done in this booklet only and cross it through.

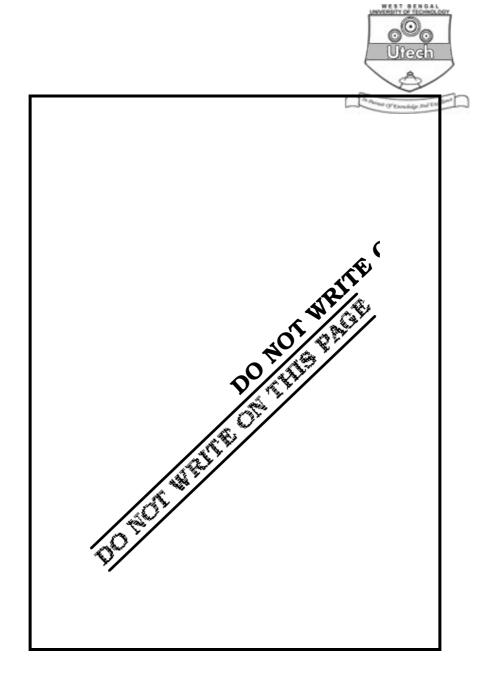
No additional sheets are to be used and no loose paper will be provided

FOR OFFICE USE / EVALUATION ONLY Marks Obtained Group - A Group - B Group - C Question Number Marks Obtained Output Marks Obtained

Head-Examiner/Co-Ordinator/Scrutineer

4433 (04/06)







ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE 2009 EPIDEMIOLOGY & ANALYSIS OF HEALTH INFORMATION DATA SEMESTER - 4

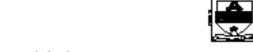
Time: 3 Hours] [Full Marks: 70

GROUP - A

(Multiple Choice Type Questions)

1.	Cho	ose th	ne correct alternatives for a	any ten of th	e following :	10 × 1 = 10				
	i)	Epic								
		a)	the aetiology of disease i	in human						
		b)	the frequency of causes	of death in	numan					
		c)	the determinants of freq	uency of dis	ease in human					
		d)	the distribution and disc	ease frequen	cy in human.					
	ii)	The	relation between prevaler	nce (<i>P</i>) and	incidence (I) is					
		a)	$P = \frac{I}{D}$	b)	$D = I \times P$					
		c)	$P = I \times D$	d)	none of these.					
	iii)	The	name of the microfilarial a	agent that ca	auses filaria is					
		a)	Wucheria bancrofti							
		b)	Plasmodium vivax							
		c)	Thermoactinomycetes so	ıchhari						
		d)	Micropolyspora faeni.							
	iv)	A method for identifying the missing cases is known as								
		a)	active surveillance	b)	passive surveillance					
		c)	sentinel surveillance	d)	none of these.					

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v)	The	most abundant of the five class	es of in	amunoglobulin is	
	a)	IgM	b)	IgG Utech	
	c)	IgD	d)	IgA.	
vi)	Rhe	umatic fever generally occurs ar	nong tl	ne age group	
	a)	5 – 15 years	b)	15 – 30 years	
	c)	30 – 45 years	d)	45 – 60 years.	
vii)	Prim	nordial prevention means			
	a)	prevention taken before biolog	gical on	set of the disease	
	b)	prevention of development of	risk fac	etors	
	c)	desired action taken after diea	ase det	ection	
	d)	immunization.			
viii)	True	e statement concerning cohort s	tudies	includes all the following, exce	pt:
	a)	Cohort studies are necessary	to estir	nate the prevalence of disease	
	b)	Cohort studies can be retrosp	ective		
	c)	Cohort studies are longitudina	l studi	es	
	d)	Subjects are selected on the of the condition being studied.		of characteristics present befo	re onset
ix)	Whi	ch of the following diseases can	be trai	nsmitted transplacentally?	
	a)	Syphillis	b)	Diphtheria	
	c)	Tuberculosis	d)	None of these.	
x)	The	incubation period of influenza is	8		
	a)	18 to 72 hours	b)	28 to 72 hours	

d) 24 to 72 hours.

c)

18 to 24 hours



- xi) 'Puerperal tetanus' refers to
 - a) tetanus resulting from unnoticed wounds
 - b) tetanus that occurs in newborn infants
 - c) tetanus after an abortion
 - d) both (a) and (b).



GROUP - B

(Short Answer Type Questions)

Write short notes on any three of the following.

 $3 \times 5 = 15$

- 2. Combined Vaccine.
- 3. Attributable Risk.
- 4. Disease Spectrum.
- 5. Cohort Study.
- 6. Immunization Hazards.
- 7. Sensitivity.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following questions.

 $3 \times 15 = 45$

- 8. Define 'Cold Life'. Discuss any five types of cold chain equipment which are used today.
- 9. What is a Rheumatic heart disease? State the epidemiological factors. What are the measures of prevention you can take?
- 10. Define and classify vaccines. Discuss about the prevention of infectious diseases.
- 11. What is Food Poisoning? State its type. How can it be prevented?

END

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