

Name of the Faculty : Dr. Anju Garg

Discipline : DMLT

Semester : 4<sup>th</sup>

Subject : Clinical Microbiology-IV

Lesson Plan Duration : One Hour

\*\*Work Load (Lecture/Practical) per week (in hours); Lectures -03, Practicals-03

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/ test)	Practical Day	Topic
1st	1 <sup>st</sup>	Mycology- Characteristics	1 <sup>st</sup>	Preparation of Different Culture Media used in Mycology – Sabouraud’s Dextrose Agar with and without Antibiotics Corn meal Agar , BHI (Brain, Heart Infusion)
	2 <sup>nd</sup>	Mycology- Characteristics	2 <sup>nd</sup>	Preparation of Different Culture Media used in Mycology – Sabouraud’s Dextrose Agar with and without Antibiotics Corn meal Agar , BHI (Brain, Heart Infusion)
	3 <sup>rd</sup>	Mycology- Classification of Medically Important Fungi	3 <sup>rd</sup>	Preparation of Different Culture Media used in Mycology – Sabouraud’s Dextrose Agar with and without Antibiotics Corn meal Agar , BHI (Brain, Heart

				Infusion)
2nd	4 <sup>th</sup>	Mycology- Classification of Medically Important Fungi	4 <sup>th</sup>	Preparation of Different Culture Media used in Mycology – Sabouraud’s Dextrose Agar with and without Antibiotics Corn meal Agar , BHI (Brain, Heart Infusion)
	5 <sup>th</sup>	Fungal Culture Media – SDA with and without Antibiotics	5 <sup>th</sup>	Preparation of Different Culture Media used in Mycology – Sabouraud’s Dextrose Agar with and without Antibiotics Corn meal Agar , BHI (Brain, Heart Infusion)
	6 <sup>th</sup>	Fungal Culture Media Fungal Culture Media- CMA and BHI	6 <sup>th</sup>	Preparation of Different Culture Media used in Mycology – Sabouraud’s Dextrose Agar with and without Antibiotics Corn meal Agar , BHI (Brain, Heart Infusion)
3rd	7 <sup>th</sup>	Collection and Processing of Sample for Fungal Infection in Skin, Nail, Hair – KOH Preparation	7 <sup>th</sup>	To Perform wet mount techniques – KOH and LCB
	8 <sup>th</sup>	Collection and Processing of Sample for Fungal Infection in Skin, Nail, Hair- LCB (Lactophenol Cotton Blue ) and	8 <sup>th</sup>	To Perform wet mount techniques – KOH and LCB

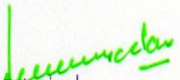
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	9 <sup>th</sup>	Fungal Cultivation- Medically Important Fungi- Candida, Dermatophytes	9 <sup>th</sup>	To Perform wet mount techniques – KOH and LCB
4th	10 <sup>th</sup>	Fungal Cultivation- Medically Important Fungi- Candida, Dermatophytes	10 <sup>th</sup>	To Perform wet mount techniques – KOH and LCB
	11 <sup>th</sup>	Fungal Cultivation- Laboratory Contaminants- Penicillium , Rhizopus, Mucore , Aspergillus	11 <sup>th</sup>	To study Characteristics of Common Laboratory Fungal Contaminants
	12 <sup>th</sup>	Fungal Cultivation- Laboratory Contaminants- Penicillium , Rhizopus, Mucore , Aspergillus	12 <sup>th</sup>	To study Characteristics of Common Laboratory Fungal Contaminants
5th	13 <sup>th</sup>	Fungal Cultivation- Laboratory Contaminants- Penicillium , Rhizopus, Mucore , Aspergillus	13 <sup>th</sup>	To study Characteristics of Common Laboratory Fungal Contaminants
	14 <sup>th</sup>	Fungal Cultivation- Laboratory Contaminants- Penicillium , Rhizopus, Mucore , Aspergillus	14 <sup>th</sup>	To study Characteristics of Common Laboratory Fungal Contaminants
	15 <sup>th</sup>	Introduction to Immunology	15 <sup>th</sup>	Collection and Processing of Samples for Diagnosis of Fungal Infection in Skin, Hair, Nails, Scrapings
6th	16 <sup>th</sup>	Immunity- Introduction	16 <sup>th</sup>	Collection and Processing of Samples for Diagnosis of Fungal Infection in

				Skin, Hair, Nails, Scrapings
	17 <sup>th</sup>	Immunity – Innate	17 <sup>th</sup>	Collection and Processing of Samples for Diagnosis of Fungal Infection in Skin, Hair, Nails, Scrapings
	18 <sup>th</sup>	Immunity- Acquired	18 <sup>th</sup>	Collection and Processing of Samples for Diagnosis of Fungal Infection in Skin, Hair, Nails, Scrapings
7th	19 <sup>th</sup>	Revision	19 <sup>th</sup>	Collection and Processing of Samples for Diagnosis of Fungal Infection in Skin, Hair, Nails, Scrapings
	20 <sup>th</sup>	Revision	20 <sup>th</sup>	Collection and Processing of Samples for Diagnosis of Fungal Infection in Skin, Hair, Nails, Scrapings
	21 <sup>st</sup>	Antigens- Definition and Types	21 <sup>st</sup>	To Perform Serological Test – WIDAL Test ( Both Slide and Tube Method )
8th	22 <sup>nd</sup>	Antigens- Definition and Types	22 <sup>nd</sup>	To Perform Serological Test – WIDAL Test ( Both Slide and Tube Method )
	23 <sup>rd</sup>	Antigens- Properties	23 <sup>rd</sup>	To Perform Serological Test – WIDAL Test ( Both Slide and Tube Method )
	24 <sup>th</sup>	TEST	24 <sup>th</sup>	To Perform Serological Test –

				WIDAL Test ( Both Slide and Tube Method )
9 <sup>th</sup>	25 <sup>th</sup>	Antibodies- Definition and Types	25 <sup>th</sup>	Serological Test- ASO titre
	26 <sup>th</sup>	Antibodies – Properties	26 <sup>th</sup>	Serological Test- ASO titre
	27 <sup>th</sup>	Antigen-Antibody Reaction – Principle	27 <sup>th</sup>	Serological Test- ASO titre
10 <sup>th</sup>	28 <sup>th</sup>	Antigen-Antibody Reaction- Application of Agglutination	28 <sup>th</sup>	Serological Test- ASO titre
	29 <sup>th</sup>	Antigen-Antibody Reaction- Precipitation and Flocculation Reaction	29 <sup>th</sup>	Serological Test- CRP
	30 <sup>th</sup>	Antigen-Antibody Reaction- Precipitation and Flocculation Reaction	30 <sup>th</sup>	Serological Test- CRP
11 <sup>th</sup>	31 <sup>st</sup>	Serological Test – Principle, Technique and Interpretation of – WIDAL-Tube Method/Titre Slide Method	31 <sup>st</sup>	Serological Test- CRP
	32 <sup>nd</sup>	Serological Test – Principle, Technique and Interpretation of – WIDAL-Tube Method/Titre Slide Method	32 <sup>nd</sup>	Serological Test- Rheumatoid factor
	33 <sup>rd</sup>	Serological Test – Principle, Technique and Interpretation of – Antistreptolysin O	33 <sup>rd</sup>	Serological Test- Rheumatoid factor
12 <sup>th</sup>	34 <sup>th</sup>	Serological Test – Principle, Technique and	34 <sup>th</sup>	Serological Test- Rheumatoid factor

		Interpretation of – Antistreptolysin O		
	35 <sup>th</sup>	Serological Test – Principle, Technique and Interpretation of – C- Reactive Protein	35 <sup>th</sup>	Serological Test- Rheumatoid factor
	36 <sup>th</sup>	Serological Test – Principle, Technique and Interpretation of – C- Reactive Protein	36 <sup>th</sup>	Serological Test- VDRL Test
13 <sup>th</sup>	37 <sup>th</sup>	Serological Test – Principle, Technique and Interpretation of – VDRL/RPR	37 <sup>th</sup>	Serological Test- VDRL Test
	38 <sup>th</sup>	Serological Test – Principle, Technique and Interpretation of – VDRL/RPR	38 <sup>th</sup>	Serological Test- VDRL Test
	39 <sup>th</sup>	Serological Test – Principle, Technique and Interpretation of – Rheumatoid Factor (RF)	39 <sup>th</sup>	Serological Test- VDRL Test
14 <sup>th</sup>	40 <sup>th</sup>	Serological Test – Principle, Technique and Interpretation of – Rheumatoid Factor (RF)	40 <sup>th</sup>	Serological Test- HIV Screening
	41 <sup>ST</sup>	Serological Test – Principle, Techniques and Application of – ELISA (Direct and Indirect )	41 <sup>st</sup>	Serological Test- HIV Screening
	42 <sup>nd</sup>	Serological Test – Principle, Techniques and Application of – ELISA (Direct and	42 <sup>nd</sup>	Serological Test- HIV Screening

		Indirect )		
15 <sup>TH</sup>	43 <sup>rd</sup>	Serological Test – Principle, Techniques and Application of – ELISA (Direct and Indirect )	43 <sup>rd</sup>	Serological Test- HIV Screening
	44 <sup>th</sup>	Revision	44 <sup>th</sup>	Serological Test- HBsAg Screening
	45 <sup>th</sup>	Revision	45 <sup>th</sup>	Serological Test- HIV Screening
16 <sup>th</sup>			46 <sup>th</sup>	Serological Test- HIV Screening
			47 <sup>th</sup>	Serological Test- HIV Screening
			48 <sup>th</sup>	Revision

  
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