

International Institute of Health Management Research (IIHMR)
New Delhi
Batch: 2020 - 2022

Total marks: 70

HIS Design (HIT – 707)

Time: 2:00 HR

Note: All questions need to be uploaded

1. ABC Teleconsulting Services is interested in providing a Telehealth Services for dermatology through referral services. The patient is seen by the patient care provider and only if he/ she feels a referral is needed then the patient case is referred to a specialist. Only the case with medical records and photos etc are referred that patient is not required to meet the specialist. Based on the reviews and consultations provided by the specialist the patient care provider then follows up with the patient.

Draw the workflow of this process using flow chart. (20)

2. Patient Lab Services are keen on bringing clinical transformation in their lab. Identify 5 major processes you will map during workflow mapping? Name any 5 ways that can be utilized to reduced waste in the lab workflow. (20)

3. Develop decision tree for the following data – Use information gain method to decide which variable should be utilized for splitting in the node (30)

Age	Monthly Insurance	Co-Payment	Out-Patient Visits	Target Disease	Outcome (Telehealth Applicability)
Young	low	Yes	none	A	Y
Middle	middle	Yes	low	B	N
Elderly	high	No	middle	N	Y
Young	low	Yes	high	A	N
Young	middle	Yes	none	A	Y
Middle	low	Yes	low	B	Y
Elderly	middle	No	middle	B	N
Elderly	low	No	high	N	N
Middle	low	No	none	N	Y
Middle	high	yes	low	A	Y
Young	high	yes	middle	B	N
Young	low	yes	high	N	Y
Middle	Middle	No	Low	B	Y