Sea	t No.:	Enrolment No	_
		GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016	
Subject Code: 2721405 Date: 31/2 Subject Name: Value Engineering		/05/2016	
Tiı	ne: 1 truction 1.	0:30 am to 01:00 pm Total Marks:	70
Q.1	(a) (b)	Discuss the origin of value engineering concept and development in Indian context. Explain the measurable and non-measurable benefits of Value Engineering.	07 07
Q.2	(a)	Discuss the importance of Value Engineering to development projects in India.	07
	(b)	Define poor value and explain the various reasons for the same. OR	07
	(b)	"For effective value analysis of a project, VE team must be multidiscipline" justify.	07
Q.3	(a)	Justify the statement: "Job-Plan is very important tool kit of Value Engineering technique."	07
	(b)	Describe and explain 5-phase job plan application in value engineering study. OR	07
Q.3	(a)	Discuss the importance of Value Engineering in Indian Mega Projects with the aim to combat project cost and time overruns.	07
	(b)	Define Cost & Worth with suitable example and explain the importance of cost to worth ratio.	07
Q.4	(a)	Enlist the maximum possible functions served by following: a. Partition wall b. Paver blocks c. Scaffolding	07
	(b)	Explain procedure of constructing FAST diagram.	07

Contrast in application of VE.

(b) What is the importance of Life Cycle Cost for a construction project with a view

(b) Prepare the FAST diagram for: Treatment of waste water.

characteristics of creative people.

point of Value Engineering?

(b) Write a short note on: Functional Cost Model.

Q.4

Q.5

Q.5

(a)

value.

OR

Define the terms with suitable example: Use value, Esteem value, & Exchange

What is the importance of creative thinking in value analysis? Describe

ORState importance of three basic laws of creativity: Similarity, Contiguity and

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