GBCS SCHEME

18ME732
amination, July/August 2022
id Robotics
id Robotics
Max. Marks: 100

ng ONE full question from each module.
e-1
ents of an automated system. (06 Marks)
oop control system and an open loop contro
(06 Marks)
ctions. (03 Marks)
(05 Marks)
)
control system and a discrete control system? (06 Marks)
e measuring device. (06 Marks)
converters. (08 Marks)
2-2
nfigurations. (12 Marks)
(05 Marks)
omate production line. (03 Marks)
1 ti coo Ti c
ycle time of 30 sec. The frequency of line stops
curs, the average down time is 4.0min. The cos
ing cost is Rs.42.00/hr and cost of disposable
1
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ced. (09 Marks)
n methods. (06 Marks)
naracter recognition and machine vision.
(05 Marks)
. 2
2-3 at sketch Robotic configuration. (10 Marks)
n Robotics. (10 Marks)
(10 Iviains)
(08 Marks)

(06 Marks)

(06 Marks)

What is End effectors? Briefly explain the type of End-Effectors.

Explain with sketch Robot Accuracy and Repeatability.

			18ME732
7	0	Explain with sketch hydraulic system for Robot.	(08 Marks)
,	a. b.	What are the characteristics of pneumatic actuators used in Robotics?	(06 Marks)
	c.	Write a short note on servo motor and stepper motor.	(06 Marks)
0		OR	(00 75 1)
8	a. b.	What is Homogeneous Transformation? Explain. Explain for the Denavit Hartenberg (D-H) representation of robot.	(08 Marks) (12 Marks)
9	a.	Explain in levels of Robot programming.	(09 Marks)
	b.	What are the requirements of a robot programming language? What are problems pertaining to robot programming languages?	(05 Marks) (06 Marks)
	c.		(00 IVIAIRS)
10	a.	Explain off-line programming systems. CMRIT LIBRARY	(08 Marks)
1	b.	Explain in central issues in OLP systems. BANGALORE - 560 037	(12 Marks)

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