A	Reg. No. :										
	Question Pa	per Cod	le: {	5972	20						
	B.E. / B.Tech. DEGREE	EXAMIN	ATI	ON, I	NOV	201	9				
	E	lective									
	Mechanic	al Enginee	ering								
	15UME920 - PRODUCTIO	N PLANN	ING	ANI	D CC)NT	ROL	,			
	(Regul	lation 2015	5)								
Dur	ation: Three hours			Ν	Iaxir	num	: 100) Ma	rks		
	Answer A	ALL Quest	ions								
	PART A - (1	$0 \ge 1 = 10$	Mar	ks)							
1.	helps in establishing the interch	angeability	y of j	produ	icts.					CO	1- F
	(a) Standardization	(b) S	Simp	lifica	tion						
	(c) Specialization	(d) I	Dive	rsific	ation	l					
2.	Job evaluation is the method-of determin	ing the								CO	1- F
	(a) Relative worth of jobs (b) Skills red	quire	d by	a wo	orker					
	(c) Contribution of a worker (d	l) Contribu	tion	of a j	job						
3.	Work Study Consists of									CO	2- F
	(a) Effective use of plant and equipment	(b) E	ffec	tive u	ise of	f hui	nan e	effor	t		
	(b) Evaluation of human work	(d) A	ll of	the a	bove	;					
4.	Micro motion study is									CO	2- F
	(a) Enlarged view of motion study										
	(b) Analysis of one stage of motion study	7									
	(c) Minute and detailed motion study										
	(d) Subdivision of an operation into therb	oligs and th	neir a	analy	sis						
5.	The correct sequence of operation in proc	•		•		trol	is			CO	3- I
	(a) Addition of orders (b) Failures	in de	eliver	у соі	mmi	tmen	ıt			
	(c) Cancellation of orders (d	l) Complain	nts f	rom c	custo	mer	S				

6.	Routing assists engineers in deciding in advance	CO3- R					
	(a) Routing-Scheduling-Dispatching-Follow up						
	(b) Scheduling-Routing- Dispatching-Follow up						
	(c) Dispatching-Routing-Scheduling- Follow up						
	(d) Routing-Scheduling-Follow up-Dispatching						
7.	Scheduling gives information about	CO4- R					
	(a) When work should start and how much work should be	e completed during a certain					
	period	1 C					
	(b) When work should complete(c) That how idle time can be minimized						
	(d) Proper utilization of machines						
8.	Gnatt chart provides information about the	CO4- R					
	(a) Material handling (b) Proper uti	lization of manpower					
	(c) Production schedule (d) Efficient	working of machine					
9.	Which of the following is an example of purchasing costs	? CO5- R					
	(a) Incoming freight (b) Storage costs (c) Insuran	ce (d) Spoilage					
10.		ce (d) Spoilage CO5- R					
10.		CO5- R					
10.	In ABC analysis, the classification is based on :-	CO5- R cost (d) Raw material cost					
10. 11.	In ABC analysis, the classification is based on :- (a) Carrying cost (b) Cumulative cost (c) Ordering PART – B (5 x 2= 10 Marks)	CO5- R cost (d) Raw material cost					
	In ABC analysis, the classification is based on :- (a) Carrying cost (b) Cumulative cost (c) Ordering (PART – B (5 x 2= 10 Marks) State objectives of Production Planning and Control.	CO5- R cost (d) Raw material cost					
11.	In ABC analysis, the classification is based on :- (a) Carrying cost (b) Cumulative cost (c) Ordering (PART – B (5 x 2= 10 Marks)) State objectives of Production Planning and Control. Is idle time affects productivity? Justify the reason.	CO5- R cost (d) Raw material cost . CO1- R CO2- R					
11. 12.	 In ABC analysis, the classification is based on :- (a) Carrying cost (b) Cumulative cost (c) Ordering PART – B (5 x 2= 10 Marks) State objectives of Production Planning and Control. Is idle time affects productivity? Justify the reason. Interpret the parameters affecting the selection of batch size 	CO5- R cost (d) Raw material cost . CO1- R CO2- R					
 11. 12. 13. 	 In ABC analysis, the classification is based on :- (a) Carrying cost (b) Cumulative cost (c) Ordering PART – B (5 x 2= 10 Marks) State objectives of Production Planning and Control. Is idle time affects productivity? Justify the reason. Interpret the parameters affecting the selection of batch size What is MRP? List the various inputs required for it 	CO5- R cost (d) Raw material cost . CO1- R CO2- R CO2- R CO3- R					
 11. 12. 13. 14. 	 In ABC analysis, the classification is based on :- (a) Carrying cost (b) Cumulative cost (c) Ordering PART – B (5 x 2= 10 Marks) State objectives of Production Planning and Control. Is idle time affects productivity? Justify the reason. Interpret the parameters affecting the selection of batch size What is MRP? List the various inputs required for it Differentiate Independent and Dependent demand. 	CO5- R CO5- R (d) Raw material cost . CO1- R CO2- R CO2- R CO3- R CO4- R CO5- R					
 11. 12. 13. 14. 	In ABC analysis, the classification is based on :- (a) Carrying cost (b) Cumulative cost (c) Ordering (PART – B (5 x 2= 10 Marks)) State objectives of Production Planning and Control. Is idle time affects productivity? Justify the reason. Interpret the parameters affecting the selection of batch size What is MRP? List the various inputs required for it Differentiate Independent and Dependent demand. PART – C (5 x 16= 80 Marks)	CO5- R CO5- R (d) Raw material cost . CO1- R CO2- R CO2- R CO3- R CO4- R CO5- R CO5- R					
 11. 12. 13. 14. 15. 	In ABC analysis, the classification is based on :- (a) Carrying cost (b) Cumulative cost (c) Ordering (PART – B (5 x 2= 10 Marks)) State objectives of Production Planning and Control. Is idle time affects productivity? Justify the reason. Interpret the parameters affecting the selection of batch size What is MRP? List the various inputs required for it Differentiate Independent and Dependent demand. PART – C (5 x 16= 80 Marks)	CO5- R CO5- R (d) Raw material cost . CO1- R CO2- R CO2- R CO3- R CO4- R CO5- R CO5- R					
 11. 12. 13. 14. 15. 	In ABC analysis, the classification is based on :- (a) Carrying cost (b) Cumulative cost (c) Ordering (PART – B (5 x 2= 10 Marks) State objectives of Production Planning and Control. Is idle time affects productivity? Justify the reason. Interpret the parameters affecting the selection of batch size What is MRP? List the various inputs required for it Differentiate Independent and Dependent demand. PART – C (5 x 16= 80 Mar (a) Explain about the functions of production planning c Or	CO5- R CO5- R (d) Raw material cost . CO1- R CO2- R CO3- R CO4- R CO5- R Ks) ycle. CO1- U (16)					
 11. 12. 13. 14. 15. 	In ABC analysis, the classification is based on :- (a) Carrying cost (b) Cumulative cost (c) Ordering (PART – B (5 x 2= 10 Marks)) State objectives of Production Planning and Control. Is idle time affects productivity? Justify the reason. Interpret the parameters affecting the selection of batch size What is MRP? List the various inputs required for it Differentiate Independent and Dependent demand. PART – C (5 x 16= 80 Mar (a) Explain about the functions of production planning c	CO5- R CO5- R (d) Raw material cost . CO1- R CO2- R CO3- R CO3- R CO4- R CO5- R Ks) ycle. CO1- U (16) ems. CO1- U (8)					

17. (a) Briefly explain the different tools and techniques used in the CO2-U (16) recording phase of method study.

Or

- (b) Elucidate the basic requirements of work sampling and also CO2-U (16) mention its characteristic and applications.
- 18. (a) Explain briefly steps involved in value analysis. CO3- U (16)

Or

- (b) Explain the importance of process planning with reference CO3-U (16) to production control. Discuss the activities involved in process planning.
- 19. (a) Discuss in detail about the various factors that affect scheduling. CO4- U (16)
 Explain any one technique used in loading and scheduling process.

Or

- (b) Discuss the concept, input characteristics, working, output sand CO4-U (16) benefits of MRP?
- 20. (a) Explain in detail with a block diagram, the basic elements of JIT CO5- U (16) manufacturing system.

Or

(b) Explain ABC analysis? Explain its significance in the inventory CO5- U (16) control with suitable example.