Product Design and Development

UNIT 4

MCQ's ON REVERSE ENGINEERING

1.	In reverse engineering process, what refers to the sophistication of the design information that can be extracted from the source?	
	a) interactivity	
	b) completeness	
	c) abstraction level	c
	d) direction level	
2.	In reverse engineering, what refers to the level of detail that is provided at an	
	abstraction level?	
	a) interactivity	
	b) completeness	1.
	c) abstraction level	b
	d) directionality	
3.	The core of reverse engineering is an activity called	
	a) restructure code	
	b) directionality	
	c) extract abstractions	c
	d) interactivity	
4.	Forward engineering is also known as	
	a) extract abstractions	
	b) renovation	d
	c) reclamation	u u
	d) both renovation and reclamation	
5.	Which of the following is not an objective of reverse engineering?	
	a) to reduce maintenance effort	
	b) to cope with complexity	d
	c) to avoid side effects	u u
	d) to assist migration to a CASE environment	
6.	_ is the process of taking something (a device, an electrical component, a software	
	program, etc.) apart and analyzing its workings in detail.	
	a) mechanical Engineering	
	b) reverse engineering	b
	c) chemical engineering	
	d) structural engineering	
7.	The steps in the reverse-engineering process are:	
	a) Observation, Disassemble, Analyze, Test, Prediction, Documentation	
	b) Prediction, Disassemble, Observation, Analyze, Documentation, Test	c
	c) Prediction, Observation, Disassemble, Analyze, Test, Documentation	
	d) Documentation, Observation, Prediction, Disassemble, Analyze, Test,	
8.	Which of the following questions should be asked in the prediction step?	
	a) Any surprises?	
	b) What is the purpose of this product?	b
	c) How many moving parts?	

	d) Harridge 2 mark declaration (12.2) (10.9)	
	d) How does it meet design objectives (overall)?	
9.	Which event in history was an example of reverse engineering	
	a) Chinese Copied America's Best Bomber During WWII	
	b) Soviets Copied America's Best Bomber During WWII	b
	c) None of the Above	U
	d) Kong Copied America's Best Bomber During WWII	
10.	In the observation stage of reverse engineering you should ask all the following	
	questions EXCEPT which?	
	a) What is this?	
	b) How does it meet design objectives (overall)?	
	c) Why is it designed the way it is?	a
	d) How do you think it works?	
11.	In documentation one should.	
	a) Construct Schematic diagrams	
	b) Do a backflip because of the excitement!	
	c) Evaluate	a
	d) Brainstorm	
12.	Engineers have to be able to the design problem to solve and	
12.	decide whether or not to address it.	
	a) Evaluate	
	b) Identify	
	c) Understand	b
	d) Express	
13.	systems because they have faulty or poorly matched parts, are used in	
13.		
	ways that exceed what was intended by the design, or were poorly designed to begin with.	
	a) failb) fumble	
		a
	c) improve	
1.4	d) grow	
14.	Define a system by identifying its, their relationship to other	
	systems, and the intended input and output of the system.	
	a) Criteria	
	b) solution	c
	c) subsystems	Č
	d) problems	
15.	The following type of layout is preferred to manufacture a standard product in large	
ļ	quantity	
	1 /	
	a) Product layout	
		0
	a) Product layout	a
	a) Product layout b) Process layout	a
16.	a) Product layout b) Process layout c) Fixed position layout d) Combination layout	a
16.	a) Product layout b) Process layout c) Fixed position layout	a
16.	a) Product layout b) Process layout c) Fixed position layout d) Combination layout The following type of layout is preferred for low volume production of non standard products	a
16.	a) Product layout b) Process layout c) Fixed position layout d) Combination layout The following type of layout is preferred for low volume production of non standard products a) Product layout	
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4-	4.50	
17.	1-The following is the preliminary stage of Production planning	
	a) Capacity planning	
	b) Material requirements planning	d
	c) Scheduling	-
	d) Product development and design	
18.	The following is the source(s) for developing new or improved product	
	a) Research and Development department of the enterprise	
	b) Consumer suggestions and Complaints	d
	c) Other competitive products in the market	u
	d) All of the above	
19.	Product cost can be reduced by considering the following aspect(s) at the design stage	
	a) Minimum number of operations	
	b) Unnecessary tight tolerance should not be provided	d
	c) Design should consist of standard parts	u
	d) All of the above	
20.	The ultimate objective of the product is	
	a) To provide a new look	
	b) Utilizing existing manpower	
	c) To monopolize the market	С
	d) All of the above	
21.	Based on their field of application, manufactured goods can be classified as	
	a) Primary, Secondary and Tertiary	
	b) Consumer, Capital and Defense	1
	c) Essential, Market and Standard	b
	d) Primary, Luxury and Consumer	
22.	The following aspect of product is concerned with the ease and efficiency of the	
	product performance	
	a) Functional aspect	
	b) Operational aspect	0
	c) Durability aspect	a
	d) Aesthetic aspect	
23.	The "simplicity to operate and easy to understand" of product is concerned with its	
	following aspect	
	a) Functional aspect	
	b) Operational aspect	
	c) Durability aspect	a
	d) Aesthetic aspect	
24.	helps in establishing the interchangeability of products	
	a) Standardization	
	b) Simplification	
	c) Diversification	a
	d) Specialization	
25.	In which of the following type the manufacturing cost may go up	
	a) Standardization	
	b) Simplification	
	c) Diversification	c
	d) All of the above	
26.	Product is the ultimate objective of variety reduction	
_0.		

	a) Simplification	
	b) Standardization	c
	c) Specialization	
	d) All of the above	
27.	The following eases the process of stock control	
	a) Standardization	
	b) Simplification	c
	c) Both 'A' and 'B'	C
	d) None of the above	
28.	The following is the Durability aspect(s) of a product	
	a) Efficiency of the product	
	b) Easy to understand	
	c) Ease with which a product can be maintained	c
	d) All of the above	
29.	is a new-product development approach in which one company department	
_,	works to complete its stage of the process before passing the new product along to the	
	next department and stage.	
	a) Sequential product development	
	b) Product life-cycle analysis	
	c) Team-based product development	a
	d) Simultaneous product development	а
	e) Micromarketing	
30.	A detailed version of a new idea stated in meaningful customer terms is called a	
50.	A detailed version of a new idea stated in meaningful customer terms is called a	
	a) Product proposal	
	b) Product concept	
	c) Product image	b
	d) Product movement	U
	e) Product idea	
31.	A manufacturer with a product in the decline stage of the product life cycle might	
31.		
	decide to if it has reason to hope that competitors will leave the industry. a) drop the product	
	b) maintain the product without change	1.
	c) delay planning d) search for replacements	b
	d) search for replacements	
22	e) harvest the product	
32.	After concept testing, a firm would engage in which stage in developing and	
	marketing a new product?	
	a) marketing strategy development	
	b) product development	
	c) idea screening	a
	d) business analysis	
	e) test marketing	
33.	An attractive idea must be developed into a	
	a) product idea	
	b) test market	C
	c) product concept	С
	d) product image	
		

	e) product strategy	
34.	During which stage of new-product development is management most likely to	
J 4 .	estimate minimum and maximum sales to assess the range of risk in launching a new	
	product?	
	a) test marketing b) product development	
	b) product development	
	c) business analysis	c
	d) concept testing	
25	e) marketing strategy development	
35.	In the stage of new-product development, products often undergo rigorous	
	tests to make sure that they perform safely and effectively or that consumers will find	
	value in them.	
	a) concept development and testing	
	b) idea generation	1
	c) business analysis	d
	d) product development	
	e) marketing mix	
36.	In the concept testing stage of new-product development, a product concept in	
	form is presented to groups of target consumers.	
	a) market-tested	
	b) prototype	
	c) commercial	d
ı	d) physical or symbolic	
	e) final	
37.	In which stage of the PLC will promotional expenditures be high in an attempt to	
	react to increasing competition?	
	a) introduction	
	b) maturity	
	c) decline	e
	d) product development	
	e) growth	
38.	Most products in the marketplace are in the stage of the product life cycle.	
	a) decline	
	b) growth	
	c) introduction	d
	d) maturity	
	e) development	
39.	The advantages of standardizing an international product include all of the following	
	except	
	a) the development of a consistent image	
	b) the adaptation of products to different markets	
	c) decreased manufacturing costs	b
	d) lower product design costs	
	e) lower marketing costs	
40.	The creation of a successful new product depends on a company's understanding of its	
	and its ability to deliver to customers.	
	a) customers, competitors, and markets; superior value	

	c) competitors, distributors, and employees; new styles	
	d) product life cycle, legal responsibilities, and social responsibilities; innovations	
	e) customers, brands, products; product images	
41.	What does top down process follow?	
	a) The overall flow of activity during product design resolution is from higher to	
	lower levels	
	b) The overall flow of activity during product design resolution is from lower to	a
	higher levels	a
	c) All of the mentioned	
	d) None of the mentioned	
42.	Lower level of abstraction includes?	
	a) Product features	
	b) Functions	d
	c) Properties	d
	d) All of the mentioned	
43.	Which of the following is not true of trend analysis? (several possible answers)	
	a) It uses changes in euro amount and percentage terms to identify patterns	
	b) It examines the relationships of percentage changes to each other	
	c) It concentrates on different geographic segments of production	b, c
	d) It examines changes over time	
	e) It concentrates on the relative size of current assets	
44.	A is a detailed version of the idea stated in meaningful	
	consumer terms.	
	a) product idea	
	b) product image	
	c) product concept	c
	d) product feature	
45.	In the stage of new-product development, products often undergo rigorous	
	tests to make sure that they perform safely and effectively or that consumers will find	
	value in them	
	a) concept development and testing	
	b) product development	h
	c) business analysis idea	b
	d) generation marketing	
46.	The collection of businesses and products that make up a company is called its	
	a) strategic business unit	
	b) mission statement	
	c) strategic plan	d
	d) business portfolio	
	e) operational factor	
47.	Which best describes the process of benchmarking?	
	a) Comparison of actual performance with budget	
	b) Comparison of the costs of one product with another	
	c) Comparison of direct competitors' performance	b
	d) Comparison of the performance of one operation or business with another	