

Q=QUESTION

question_description

A=ANSWER

answer_description

These are sample MCQs to indicate pattern, may or may not appear in examination

The most important performance dimension for product development project

Q is

A Time to market

A Time to target

A Time to consumer

A Time to seller

A version of products containing only those features which are absolutely necessary for it to function.

Q

A Expected Product

A Augmented Product

A Generic Product

A Potential product

_____ uses cross functional integration for concurrent

Q development of a product.

A Product development

A Concurrent engineering

A Business analysis

A Value analysis

_____ outline the planned price, marketing budget, distribution and describe the target market, planned product positioning, profit goals, market share, sales for the first few years.

Q

A Product development

A Business analysis

A Marketing strategy

A Test Market
More calls to the same customer, alternate marketing, and surrogate marketing all can be done in case of _____

Q
A Commercialization
A Market penetration
A Business analysis
A Adapting
_____ is one of the challenges presented by the Product Life Cycle for a product.

Q
A Product development
A New product development
A Product testing
A Poor margins
A detailed specification for the product development and pricing is established in _____ stage of "Product Development Process".

Q
A Launch
A Testing
A Feature specification
A Idea screening
Linked with different marketing and technology strategy the overall corporate strategy is considered as

Q
A Differentiation strategy
A New product strategy
A Market strategy
A Product development strategy

Q

The cost, potential sale, profit of the offering are calculated at different price levels in _____ stage of “Product Development Process”.

A

Evaluation

A

Testing

A

Idea screening

A

Idea generation

_____ includes small number of representative test cities for marketing campaigns store audits, consumer and distributor surveys.

Q

A

Control test markets

A

Standard test markets

A

Stimulated test markets

A

Commercialization

Encourage all stakeholders like customers, dealers, employees etc to send ideas to the idea manager and formally recognize the program to reward best new ideas is characteristic of which stage in the “New Product Development Process”.

Q

A

Idea generation

A

Idea screening

A

Testing

A

Development

In _____ R&D needs to perform prototyping and testing of various alternative implementation ways. The company conducts performance and safety tests possibly with customer groups.

Q

A Test marketing
A Product development
A Business strategy
A Market strategy
Q Which is the next stage after “Idea Generation” in “New Product Development Process”?
A Feature specification
A Testing
A Development
A Idea Screening
Q When more number of conversions takes place in a particular market, what does it mean in terms of marketing?
A Marketing strategy development
A Decline stage
A Poor margin
A More products
Q When market reach to its saturation, the producers begin to leave the market due to _____
A Marketing strategy development
A Decline stage
A Poor margin
A Market penetration
Q In “Product Life Cycle” a stage represents rapid growth of product sale knows as
A Market introduction phase
A Growth phase
A Saturation phase
A Mature phase

The objective of _____ is to achieve better performance at a lower cost.

Q

A

Value Analysis/Value Engineering

A

Quality Function Development

A

Effective production step

A

Continuous Improvements

_____ Stage introduces a new product in the market.

Q

A

Evaluation

A

Commercialisation

A

Feature specification

A

Development

“A product has to pass through various stages and different competitive environments from its introduction to decline” was stated by

Q

A

Arch Paton

A

Philip Kotler

A

Nielson

A

Stanton

To reach forward for positioning strategy and to come back to core capabilities.

Which strategy is important in the case?

Q

A

Differentiation strategy

A

New product strategy

A

Market strategy

A

Product development strategy

In terms of “Product Life Cycle”, a style is a basic and distinctive mode of

Q

A Perception
A Growth
A Impression
A Expression
A process of software development where requirements are broken down into multiple standalone modules of software development cycle
Q Waterfall model
A RAD model
A Evolutionary process model
A Incremental process model
A Computer model of a part design on a CAD system is called as
Q computer prototype
A geometric prototype
A solid prototype
A virtual prototype
Which one of the following rapid prototyping processes uses a photosensitive liquid polymer as the starting material?
Q droplet deposition manufacturing
A fused-deposition modeling
A stereolithography
A three-dimensional printing
Which of the following RP technologies uses molten material as the starting material?
Q droplet deposition manufacturing
A fused-deposition modeling
A selective laser sintering
A stereolithography

Q Which one of the following RP technologies uses solid sheet stock as the starting material:

A droplet deposition manufacturing

A fused-deposition modeling

A laminated-object manufacturing

A stereolithography

Ballistic-particle manufacturing is another name for which one of the following RP technologies:

A droplet deposition manufacturing

A fused-deposition modeling

A laminated-object manufacturing

A selective laser sintering

Q Of all of the current material addition rapid prototyping technologies, which one is the most widely used

A ballistic particle manufacturing

A fused deposition modeling

A selective laser sintering

A stereolithography

Q Which of the following process is suitable for making injection molding tools?

A SL

A SLS

A EBM

A FDM

Q Which is one of the RP process not using laser?

A LOM

A SLA

A SLS

A FDM

Q What is the full name of SLS rapid prototyping process?

A Selective Laser Simulator

A Sintering Laser Simulator

A Selective Laser Sintering

A Stereolithography Laser Sintering

Q Which one is NOT related to rapid prototyping definition?

A Layer by layer

A Physical model

A From 3D CAD data

A Production line

Q Which one of the processes is NOT using a laser?

A LOM

A SLA

A SLS

A FDM

Q Which of the following is the process in the NOT RP cycle?

A Post-processing

A Transfer to machine

A Pre-processing

A Leading

Q Which of the following is one of the design process steps?

A Build

A Concept

A Pre-processing

A Transfer to machine

Q What is the format for the prototyping machine file?

A .Prt

A .slt

A .stl

A .iges

Which CAD software cannot be used to create data for the prototyping machine?

Q

A CREO

A CATIA

A NX Unigraphics

A Adobe Illustrator

Which one of the process is subtractive prototyping?

Q

A 5 axis CNC Milling

A Fused Deposition Modeling

A Multi-Jet Modeling

A Stereolithography Apparatus

Which of the following is the process of the pre-processing stage?

Q

A Remove support

A Checking 3D CAD data

A De-powdering loose material

A Dip in a binder to strengthen the part

A computer model of a part design on a CAD system is called which of the following?

Q

A Computer Prototype

A Geometric Prototype

A Solid Prototype

A Virtual Prototype

Which of the following are problems with the current rapid prototyping and additive manufacturing technologies?

Q

A Limited material variety

A Inability to convert a solid part into layers

A Poor machinability of the starting material

A The inability of the designer to design the part

A The thin metal foil used in Ultrasonic Additive Manufacturing (UAM) has typically thicknesses of

Q

A 1–1.5 μm

A 10–15 μm

A 100–150 μm

A 1–1.5 mm

Q Which of the following is an additive-plus-subtractive process?

A 3D Printing

A Laminated Object Manufacturing (LOM)

A Laser Engineered Net Shaping (LENS)

A Ultrasonic Additive Manufacturing (UAM)

Q Which of the following is the first step of the rapid prototyping process?

A 3D Modeling

A Data Conversion

A Building

A Postprocessing

Q SOUP stands for

A Solid Object Ultraviolet-Laser Printing

A Solid Optical Ultraviolet-Laser Printing

A Selective Object Ultraviolet-Laser Printing

A Selective Optical Ultraviolet-Laser Printing

Which one of the following rapid prototyping processes uses a photosensitive liquid polymer as the starting material?

Q

A droplet deposition manufacturing

A fused-deposition modeling

A stereolithography

A three-dimensional printing

Which of the process is available in colors?

Q

A SLA

A FDM

A MJM

A 3D Printer

What is the other name of Multi Jet

Q Modeling?

A FDM

A Poly Jet

A 3D Printer

A Extrusion

Which of the process, the input material is in liquid form?

Q

A LOM

A SLS

A FDM

A MJM

Which model of 3D printer available in PERDA-TECH?

Q

A Z310

A Z450

A Z510

A Z650
Which of the following is NOT the color
Q binder of a 3D Printer?
A Cyan
A Black
A Magenta
A Yellow
What is the infiltrant used to strengthen
Q parts in the Z510 machine?
A Water
A Paint
A Epson Salt
A Color Bond
Ballistic-particle manufacturing is another
name for which one of the following RP
Q technologies?
A Droplet Deposition Manufacturing
A Fused-Deposition Modeling
A Laminated-Object Manufacturing
A Selective Laser Sintering
In extrusion-based 3D Printing RP system,
Q raw material form used is
A wax
A powder
A rubber
A wire
Laser Engineered Net Shaping (LENS)
builds components in an additive manner
Q from following
A photo-polymer liquid
A sheet of paper
A powdered metals
A metal wires

Q In the Laser Engineered Net Shaping (LENS) process, following is used to fuse and solidify powder.

A UV rays

A laser

A infra

A wavelength

Q In the Laser Engineered Net Shaping (LENS) process, the fabrication process takes place in a low-pressure this chamber.

A argon

A oxygen

A nitrogen

A helium

Q Direct Metal Deposition (DMD) process uses

A metallic powders

A ceramic

A superalloy

A air

Q Direct Metal Deposition (DMD) uses software developed by

A Chalmers University of Technology

A Optomec Inc.

A Arcam AB, Sweden

A University of Texas, Austin

Q The process suitable for the production of parts, molds, and dies that are made out of tool steel is a

A Selective Laser Sintering (SLS)

A Fused Deposition Modelling (FDM)

A Direct Metal Deposition (DMD)

A Laminated Object Manufacturing (LOM)

Q Direct Metal Deposition (DMD) does not
uses

A lasers

A sensors

A powder metallurgy

A Machining

Q Direct Metal Deposition (DMD) uses

A two-axis tables

A three-axis tables

A four-axis tables

A five-axis tables

Q Which of the following RP technologies
uses powders as the starting material

A droplet deposition manufacturing

A fused-deposition modeling

A laminated-object manufacturing

A selective laser sintering

Q The model which is created by using basic
entities of two dimensioning is called

A Surface model

A Wire frame model

A Solid model

A Isometric model

Q Types of models which is commonly used
are _____

A Simple model

A Composite model

A Isometric model

A Solid model

Q In which of the types of wire frame model is used for drawing flat objects?

A 2D wire frame model

A 2.5 wire frame model

A 3D wire frame model

A Solid model

Q The _____ form the basis for surface models.

A surface model

A solid model

A wire frame model

A isometric model

Q The wire frame entities are _____

A Plane surface

A Ruled surface

A Tabulated surface

A Polygons

Q The representation of complex objects which is not be drawn by wire frame model is called as _____

A Surface model

A Wire frame model

A Solid model

A Isometric model

Q The surface model is created by using _____

A Analytic entities

A Synthetic entities

A Analytic and Synthetic entities

A Basic entities

Q

What is the basic part of the surface model on which the surface is to be drawn?

A

Ruled

A

Ruler

A

Size

A

Mesh

The basic surface modeling entities are

Q

A

Polygons

A

Circle

A

Surface of revolution

A

Chamfers

A model of casting, constructed to use for forming a mould in damp sand, is called as

Q

A

sand construction

A

pattern

A

cover

A

sand

The patterns which are made in two or more pieces are called as

Q

A

solid patterns

A

split patterns

A

loose piece patterns

A

Pattern

What is the highest possible percentage of clay contents in loam sand?

Q

A

10

A

20

A

30

A

50

Q The productivity of casting process is comparatively
A lower than the productivity of other automatic processes like rolling
A higher than the productivity of other automatic processes like rolling
A similar to the productivity of other automatic processes like rolling
A unpredictable

Q Which casting process has no size and shape limits?
A Sand casting
A Shell-mould casting
A Plaster-mould casting
A Shaking

Q Allowance in limits and fits refers to
A Maximum clearance between shaft and hole
A Minimum clearance between shaft and hole
A Difference between maximum and minimum sizes of hole
A Difference between maximum and minimum sizes of shaft

Q Which of the following engineering materials is the most suitable candidate for hot chamber die casting?
A Low carbon steel
A Titanium
A Copper
A Tin

Q In powder metallurgy, range of particle size (in microns) is?

- A 4 to 200
- A 0.300 to 0.003
- A 100 to 2000
- A 5000 to 6000

Process of forming metal powder by directing molten metal through an orifice after which it is break into small particle using high pressure fluid is known as?

- Q
- A Atomization
- A Reduction
- A Crushing
- A Electrolysis

Formation of metal powder to use in powder metallurgy by reducing some compound with CO or other molecules is known as?

- Q
- A Atomization
- A Reduction
- A Crushing
- A Electrolysis

Production of pure powder of iron and copper can be effectively done using?

- Q
- A Atomization
- A Reduction
- A Crushing
- A Electrolysis

Powder of various and non-ferrous material which becomes brittle on heating, can be formed using?

- Q
- A Atomization
- A Reduction
- A Crushing

A Electrolysis
Q Sintering is done to _____
A increase final strength
A decrease final strength
initially decrease and then to increase the
A strength
initially increase and then to decrease the
A strength
Before compacting the metals, which
process is annealed to remove the effects of
Q cold working?
A Machining
A Crushing
A Shotting
A Matching
Q What is meant by specific surface?
A surface area per unit volume
A surface area per unit weight
A surface weight per unit area
A Surface to surface
In this type of VR environment, the
subjects can perform both in the real and
virtual environment.
Q
A Immersive
A Semi immersive
A Non immersive
A Augmented
Which of the following VR headsets is
Q NOT an actual product released in 2016?
A HTC's Vive
A Facebook's Oculus Rift
A Apple's Masque

A Sony's PlayStation VR
In June of 2016, Greenlight Insights polled US internet users to ask how much they would be willing to pay for a VR device. How many said they would pay \$1,000 or more?

Q

A 46%

A 31%

A 18%

A 2%

McDonald's captured attention in 2016 with a VR experience that allowed players to use a virtual paint gun to decorate ...?

Q

A A Burger King restaurant

A A skate park

A A Happy Meal box

A The Golden Arches

Q Pokémon Go is an example of..

A A virtual reality game

A A fast-food franchise

A An augmented reality game

A A YouTube channel

Virtual Reality is useful in training pilots in flight

Q

A Imitation

A Model

A Simulators

A Simulation

_____ is not well fitted for photographic works.

Q

A GIF

A JPG

A JPEG
A BMP

The surface which is not to be drawn by the surface model drawn by _____

Q
A Surface model
A Wire frame model
A Solid model
A Isometric model

Which input method is used mainly by banks for processing cheques?

Q
A OMR
A Bard code reader
A Light Pen
A MICR

The ____ is the number of times per second the electron beam scans the monitor and recharges the illumination of each pixel.

Q
A Resolution
A Sharpness
A Refresh rate
A Dot pitch

The following is the first computer printer.

Q
A Laser
A Inkjet
A Dot matrix
A IBALL

Q
A SCSI stands for
A Standard Computer Systems Interface
A Small Computer Standards Interface
A Super Computer Systems Interface

A Small Computer Systems Interface

In a full binary tree if the number of nodes is 31 then the height of the tree is:

Q

A 2

A 3

A 4

A 5

Which of the following is not a utility in Windows OS to ensure backup and adequate performance of an internal hard disk?

Q

A Backup

A Disk Cleanup

A Disk Defragmenter

A Internet Explorer

Screen printing utilizes a _____ to control the location of the ink.

Q

A Layer

A Mask

A Point

A Spot

_____ is the only commonly utilized stencil printing method utilized. It utilizes a fine mesh screen mounted to a frame.

Q

A Copper screen printing

A Zinc screen printing

A Silk screen printing

A Linen screen printing

The _____ is held against the surface to be printed, and ink is forced through the _____ (and supporting screen) with utilize of a squeegee.

Q

A

Pin

A

Stencil

A

Point

A

Impression

The _____ process was introduced by the Xerox company in 1960.

Q

A

Ink jet printer

A

Photocopy

A

Printhead

A

Ribbons

_____ spray the ink directly through a series of holes onto the surface of paper as the printhead scans back and forth across the paper.

Q

A

Ink jet printer

A

Photocopy

A

Thermal printers

A

Ribbons

_____ printers utilize a dye from a page size ribbon that vaporizes and condenses on the paper. This method allows a continuous tone of ink intensities to be produced.

Q

A

Dye sublimation

A

Dye freezing

A

Dye evaporation

A

Dye saturation

_____ crystals surrounded by ink vibrate, causing a droplet to form and pass through a fine nozzle, a very small electric heater boils the ink to transfer it to the paper.

Q

A

CuSO₄

A

SiO₂

A

Methamphetamine

A

Piezoelectric

_____ are generally reserved for instrumentation. For example, E.K.G. machines and other “chart recorders,” many FAX receivers, some computer printers, and other devices utilize this method.

Q

A

Ink jet printer

A

Photocopy

A

Thermal printers

A

Ribbons

Printing occurs by a _____ that heats appropriately as it scans. This method has the advantage that ink will not clog in equipment that gets intermittently utilized so that the reliability is greatly improved.

Q

A

Print head

A

Thermal head

A

Pressure head

A

Density head