Production Engineer Interview Questions And Answers Guide.

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Question # 1
Segmental chips are formed during machining:
A. mild steel
B. cast iron
C. high speed steel
D. high carbon steel
Answer:-
B. cast iron
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Question # 2
If the diameter of the hole is subject to considerable variation, then for locating in jigs and fixtures, the pressure type of locator used is:
A. conical locator
B. cylindrical locator
C. diamond pin locator
D. vee locator
Answer:-
A. conical locator
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Question # 3
Side rake angle of a single point cutting tool is the angle:
A. by which the face of the tool is inclined towards back
B. by which the face of the tool is inclined sideways
C. between the surface of the flank immediately below the point and a plane at right angles to the centre line of the point of the tool
D. between the surface of the flank immediately below the point and a line drawn from the point perpendicular to the base
Answer:-
B. by which the face of the tool is inclined sideways
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Question # 4
Cemented carbide tool tips are produced by powder metallurgy.
A. True
B. False
Answer:-
A. True
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Question # 5
In order to prevent tool from rubbing the work ________ on tools are provided.
A. rake angles
B. relief angles
Answer:-
B. relief angles
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Question # 6
The silicon carbide abrasive is chiefly used for grinding:
A. cemented carbide
B. ceramic
C. cast iron
D. all of these

**Answer:**
D. all of these

**Question # 7**
Drilling is an example of:
A. orthogonal cutting
B. oblique cutting
C. simple cutting
D. uniform cutting

**Answer:**
B. oblique cutting

**Question # 8**
A round nose tool may be fed either from left to right end or from right to left end of the lathe bed.
A. Yes
B. No

**Answer:**
A. Yes

**Question # 9**
When the cutting edge of the tool is dull, then during machining:
A. continuous chips are formed
B. discontinuous chips are formed
C. continuous chips with built-up edge are formed
D. no chips are formed

**Answer:**
C. continuous chips with built-up edge are formed

**Question # 10**
Internal gears can be made by:
A. hobbing
B. shaping with pinion cutter
C. shaping with rack cutter
D. milling

**Answer:**
B. shaping with pinion cutter

**Question # 11**
Cast iron during machining produces
A. continuous chips
B. discontinuous chips
C. continuous chips with built-up-edge
D. none of these

**Answer:**
B. discontinuous chips

**Question # 12**
A single point thread cutting tool should ideally have:
A. zero rake angle
B. positive rake angle
C. negative rake angle
D. point angle

**Answer:**
A. zero rake angle

**Question # 13**
A fine grained grinding wheel is used to grind hard materials.
A. Correct  
B. Incorrect

Answer:-
A. Correct  
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Question # 14
The cutting tool in a milling machine is mounted on:
A. spindle  
B. arbor  
C. column  
D. knee

Answer:-
B. arbor  
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Question # 15
The tool made of cemented carbide wear out faster at:
A. slow speeds  
B. medium speeds  
C. fast speeds  
D. very fast speeds

Answer:-
A. slow speeds  
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Question # 16
A push broach as compared to pull broach:
A. has less number of teeth  
B. is short and stocky  
C. removes less material for each pass of the tool  
D. all of the above

Answer:-
D. all of the above  
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Question # 17
The work or surface speed for cylindrical grinding varies from
A. 5 to 10 m/min  
B. 10 to 20 m/min  
C. 20 to 30 m/min  
D. 40 to 60 m/min

Answer:-
C. 20 to 30 m/min  
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Question # 18
A twist drill is a:
A. side cutting tool  
B. front cutting tool  
C. end cutting tool  
D. none of these

Answer:-
C. end cutting tool  
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Question # 19
The rake angle required to machine brass by high speed steel tool is:
A. 0.  
B. 10.  
C. 20.  
D. -10.

Answer:-
A. 0.  
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Question # 20
Twist drills are made of:
A. high speed steel
B. carbon steel
C. stainless steel
D. either (a) or (b)
Answer:-
D. either (a) or (b)
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Question # 21
The average cutting speed for turning brass with a high speed steel tool is:
A. 15 to 19 m/min
B. 25 to 31 m/min
C. 60 to 90 m/min
D. 90 to 120 m/min
Answer:-
C. 60 to 90 m/min
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Question # 22
Side rake angle on tools is provided to control chip flow.
A. True
B. False
Answer:-
A. True
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Question # 23
The maximum production of small and slender parts is done by:
A. watch maker's lathe
B. sliding head stock automatic lathe
C. multispindle automatic lathe
D. capstan lathe
Answer:-
C. multispindle automatic lathe
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Question # 24
The lip angle of a single point tool is usually:
A. 20. to 40.
B. 40. to 60.
C. 60. to 80.
D. none of these
Answer:-
C. 60. to 80.
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Question # 25
A fixture does not guide the tool.
A. Correct
B. Incorrect
Answer:-
A. Correct
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Question # 26
A fixture is defined as a device which:
A. holds and locates a workpiece and guides and controls one or more cutting tools
B. holds and locates a workpiece during an inspection or for a manufacturing operation
C. is used to check the accuracy of workpiece
D. all of the above
Answer:-
B. holds and locates a workpiece during an inspection or for a manufacturing operation
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Question # 27
The facing is an operation of:
A. bevelling the extreme end of a workpiece
B. embossing a diamond shaped pattern on the surface of a workpiece
C. reducing the diameter of a workpiece over a very narrow surface
D. machining the ends of a workpiece to produce a flat surface square with the axis

Answer:-
D. machining the ends of a workpiece to produce a flat surface square with the axis

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Question # 28
Which of the following statement is wrong about ultra-sonic machining?
A. It is best suited for machining hard and brittle materials.
B. It cuts materials at very slow speeds.
C. It removes large amount of material.
D. It produces good surface finish

Answer:-
C. It removes large amount of material.

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Question # 29
A drill considered as a cutting tool having zero rake, is known as a:
A. flat drill
B. straight fluted drill
C. parallel shank twist drill
D. tapered shank twist drill

Answer:-
B. straight fluted drill

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Question # 30
In oblique cutting system, the maximum chip thickness occurs at the middle.
A. Correct
B. Incorrect

Answer:-
B. Incorrect

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Question # 31
The method of grinding used to produce a straight or tapered surface on a workpiece, is:
A. internal cylindrical grinding
B. form grinding
C. external cylindrical grinding
D. surface grinding

Answer:-
C. external cylindrical grinding

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Question # 32
Gear lapping is an operation:
A. after heat treatment
B. prior to heat treatment
C. for gear reconditioning
D. none of these

Answer:-
A. after heat treatment

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Question # 33
Crater wear occurs mainly on the:
A. nose part, front relief face and side relief face of the cutting tool
B. face of the cutting tool at a short distance from the cutting edge only
C. cutting edge only
D. front face only

Answer:-
B. face of the cutting tool at a short distance from the cutting edge only

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**Question # 34**  
The lead screw of a lathe has _________ threads.  
A. single start  
B. double start  
C. multi-start  
D. any one of these  
**Answer:-**  
A. single start  
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**Question # 35**  
A left hand tool on a lathe cuts most efficiently when it travels.  
A. from left to right end of the lathe bed  
B. from right to left end of the lathe bed  
C. with the help of a compound slide  
D. across the bed  
**Answer:-**  
A. from left to right end of the lathe bed  
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**Question # 36**  
In up milling, the thickness of chip is:  
A. minimum at the beginning of the cut and maximum at the end of the cut  
B. maximum at the beginning of the cut and minimum at the end of the cut  
C. uniform throughout the cut  
D. none of these  
**Answer:-**  
A. minimum at the beginning of the cut and maximum at the end of the cut  
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**Question # 37**  
The machining of titanium is difficult due to:  
A. high thermal conductivity of titanium  
B. chemical reaction between tool and work  
C. low tool-chip contact area  
D. none of these  
**Answer:-**  
C. low tool-chip contact area  
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**Question # 38**  
In the relation VT(n) = C, the value of n for carbide tools is:  
A. 0.1 to 0.2  
B. 0.20 to 0.25  
C. 0.25 to 0.40  
D. 0.40 to 0.55  
**Answer:-**  
B. 0.20 to 0.25  
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**Question # 39**  
In orthogonal cutting system, the maximum chip thickness occurs at the middle.  
A. Correct  
B. Incorrect  
**Answer:-**  
A. Correct  
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**Question # 40**  
Lapping is an operation of:  
A. making a cone-shaped enlargement of the end of a hole  
B. smoothing and squaring the surface around a hole  
C. sizing and finishing a small diameter hole  
D. producing a hole by removing metal along the circumference of a hollow cutting tool  
**Answer:-**  
C. sizing and finishing a small diameter hole  
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Question # 41
If the helix angle of the drill is made __________ 30., then the torque required to drive the drill at a given feed will be more.
A. equal to
B. less than
C. more than

Answer:-
B. less than

Question # 42
The different spindle speeds on a lathe form:
A. arithmetical progression
B. geometrical progression
C. harmonical progression
D. any one of these

Answer:-
B. geometrical progression

Question # 43
In hot machining, tool is made of:
A. tungsten carbide
B. brass or copper
C. diamond
D. stainless steel

Answer:-
A. tungsten carbide

Question # 44
Larger end cutting edge angle __________ tool life.
A. increases
B. decreases
C. does not effect

Answer:-
A. increases

Question # 45
The correct sequence of tool materials in increasing order of their ability to retain their hot hardness is:
A. carbide, ceramic, cermet, borazon
B. ceramic, carbide, borazon, cermet
C. cermet, carbide, ceramic, borazon
D. borazon, ceramic, carbide, cermet

Answer:-
C. cermet, carbide, ceramic, borazon

Question # 46
The angle included between the two lips projected upon a plane parallel to the drill axis and parallel to the two cutting lips, is called helix angle.
A. Correct
B. Incorrect

Answer:-
B. Incorrect

Question # 47
Grinding wheels should be tested for balance:
A. only at the time of manufacture
B. before starting the grinding operation
C. at the end of grinding operation
D. occasionally

Answer:-
D. occasionally
Question # 48
In ultra-sonic machining, the metal is removed by:
A. using abrasive slurry between the tool and work
B. direct contact of tool with the work
C. maintaining an electrolyte between the work and tool in a very small gap between the two
D. erosion caused by rapidly recurring spark discharges between the tool and work
Answer:-
A. using abrasive slurry between the tool and work
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Question # 49
The velocity of tool relative to the work piece is known as cutting velocity.
A. True
B. False
Answer:-
A. True
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Question # 50
Which of the following statement is incorrect with reference of lathe cutting tools?
A. The flank of the tool is the surface or surfaces below and adjacent to the cutting edges
B. The nose is the corner, arc or chamfer joining the side cutting and the end cutting edges
C. The heel is that part of the tool which is shaped to produce the cutting edges and face
D. The base is that surface of the shank which bears against the support and takes tangent pressure of the cut
Answer:-
C. The heel is that part of the tool which is shaped to produce the cutting edges and face
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Question # 51
The cutting in a milling machine is mounted on.?
Answer:-
Arbor
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Question # 52
Drilling is an example of?
Answer:-
Oblique
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