Polymer And Plastic Engineering Department

Question bank

Design of Mould (old pattern)

DPP3203

VI th sem

2019-20

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- 1) Following are the types of compression mould
 - a. Flash
 - b. Horizontal semipositive
 - c. Vertical semipositive
 - d. All above
- 2) Thermoset materials are used in compression mould
 - a. True
 - b. False
- 3) Following is the factor consider while designing compression mould
 - a. Type of product
 - **b.** Size of product
 - c. Molding material
 - d. All above
- 4) Molding Materials are compressed in between core and cavity in compression mould.
 - a. True
 - b. False
- 5) Following types of compression mould gives high strength product.
 - a. Fully positive
 - b. Vertical semipositive
 - c. Horizontal semipositive
 - d. Flash type

- 6) Plastic material with fibre can be used in compression mould.
 - a. True
 - b. False
- 7) Following mold making material is used in CM.
 - a. CAST iron
 - b. Tool steel
 - c. HCTS
 - d. All above
- 8) More amount of flash develop in following types of CM.
 - a. Flash
 - b. Vertical semipositive
 - c. Horizontal
 - d. Fully positive
- 9) Function of pressure pad used in CM.
 - a. Control wall thickness of product.
 - b. Proper ejection
 - c. Cooling
 - d. None of above
- 10) Function of flash escapment area is
 - a. To provide area for flash
 - b. For cooling
 - c. None of above
 - d. All above
- **11)** More diamensional tolerances in product can be achieve by

using

- i. Flash
- ii. Vertical semipositive
- iii. Horizontal
- iv. Fully positive
- 12) Minimum clearance between force and cavity produce high quality product.
 - a. True
 - b. False

- 13) Cavity surface should be highly polished and finished in CM.
 - a. TRUE
 - b. FALSE
- 14) More amount of flash develop in CM to maintain the quality.
 - a. True
 - b. False
- **15)** More flow restriction of plasticized material increases.
 - a. Strength of product
 - b. Uniform flow
 - c. Stress
 - d. None of above
- 16) Following ejection techniques is used in CM.
 - a. PIN TYPE
 - b. Stripper plate
 - c. Air ejection
 - d. All above
- 17) Compression mould size depends on.
 - a. Product size
 - b. Type of ejection
 - c. Type of cooling
 - d. All above
- 18) Cooling system present in CM.
 - i. TRUE
 - ii. FALSE
- 19) Large product produce in CM
 - a. True
 - b. False
- 20) High pressure is required in compression mould.
 - a. True
 - b. False
- 21) Following are the types of Transfer mould.

- a. Pot type
- b. Auxiliary ram type
- c. Loose plate
- d. All above
- 22) Cooling system are present in transfer mould.
 - a. True
 - b. False
- 23) Feed system consists of
 - a. Sprue
 - b. Runner
 - c. Gate
 - d. All above
- 24) Multicavity can be constructed in TM
 - a. TRUE
 - b. FLASE
- 25) FUNCTION of ram/plunger/force in TM is.
 - a. To transfer the material
 - b. To eject the product
 - c. For cooling
 - d. All above
- 26) Function of cull pickup is.
 - a. To collect the excess material
 - b. To remove sprue
 - c. Both A and B
 - d. None of above
- 27) Function of loading chamber
 - a. To provide space for plastic material
 - b. For cooling
 - c. For ejection
 - d. All above
- 28) Orifice in loose plate acts as a gate in loose plate TM
 - a. True
 - b. False

- 29) Why two number of loose plate used at the time of production?
 - a. To increase production rate
 - b. To reduce production rate
 - c. Both of A and B
 - d. None of above
- **30)** Feed system and product are separately ejected in pot type TM
 - a. TRUE
 - b. FALSE
- **31)** Function of plunger is to
 - a. Transfer the material into cavity
 - b. Cooling
 - c. Ejection
 - d. None of above
- **32)** Following ejection techniques used in TM
 - a. STRIPPER PALTE
 - **b. PIN TYPE**
 - c. BOTH A and B
 - d. None of above
- 33) Small and large plastic product can be produce in TM
 - a. TRUE
 - b. FALSE.
- 34) Glass fibre and plastic are used in TM
 - a. TRUE
 - b. FALSE.
- 35) HIGH quality product can be produce in following mould
 - a. Compression mould
 - b. Transfer mould
 - c. Both
 - d. None of above
- **36)** Switches and button are produce in transfer mould.
 - a. True
 - b. False
- **37)** Following are the wastage of material in TM.
 - a. Runner

- b. Gate
- c. Sprue
- d. All above

38) A REVERSE TAPER SPRUE is used in TM.

- a. True
- b. False
- **39)** Following number of cavities can be design in TM.
 - a. SINGLE CAVITY
 - **b. FOUR CAVITY**
 - c. TEN CAVITY
 - d. ALL ABOVE
- 40) Following mould are difficult for design and manufacturing
 - a. Compression
 - b. Transfer
 - c. Both
 - d. None of above
- 41) Following system are present in Injection mould.
 - a. Feed system
 - b. Ejection system
 - c. Cooling system
 - d. All above
- 42) Complicated and integrated design product can be produce in

IM.

- a. TRUE
- b. FALSE
- 43) FOLLOWING are the type of injection mould.
 - a. Two plate
 - b. Three plate
 - c. Hot runner
 - d. All above
- 44) Following are correct sentence .
 - a. One parting line is present in two plate IM.
 - b. TWO parting line is present in two plate IM.
 - c. THREE parting line is present in two plate IM.

- d. FOUR parting line is present in two plate IM.
- 45) Side gate location can be possible in two plate injection mould.
 - a. True
 - b. False
- 46) Centre gate location can be possible in three plate IM.
 - a. TRUE
 - b. FALSE
- 47) Ejection of product and feed system carried out from one parting line or opening in which mould.
 - a. Two plate
 - b. Three plate
 - c. Both
 - d. None above
- 48) Following are the types of ejection in IM.
 - a. PIN TYPE
 - **b.** AIR EJECTION
 - c. BLADE EJECTION
 - d. BAR EJECTION

- 49) WHAT is gate mark in IM?
 - a. Mark rest on the product due to cutting of gate from runner
 - b. Mark of ejection
 - c. Mark of coolong
 - d. All above
- 50) Following factor should consider while designing IM.

- a. SHRINKAGE OF PLASTIC MATERIAL
- **b.** TENSILE STRENGTH
- c. TEMPERATURE OF MATERIAL
- d. NONE OF ABOVE

51) Following are the mould making material for cavity insert

- a. MS
- b. Cl
- c. TOOL STEEL
- d. ALL ABOVE.
- 52) Following are the mould making material are used for cavity

plate.

- a. MS
- b. EN -18
- c. TOOL STEEL
- d. ALL ABOVE
- 53) Following cooling system used in IM.
 - a. U–CKT
 - b. Rectangular ckt
 - c. Z ckt
 - d. All above
- 54) Following injection gate used for COMPACT DISK
 - a. PIN GATE
 - b. TAB GATE
 - c. DISK GATE
 - d. NONE OF ABOVE.
- 55) Following injection gate used for plastic BUCKET
 - a. SPRUE GATE
 - **b. PINPOINT GATE**
 - c. RING GATE
 - d. NONE OF ABOVE.
- 56) Following are the type of runner.
 - a. Circular
 - b. Trapezoidal

- c. Modified trapezoidal
- d. All above

57) Mould designer preferred mostly this type of runner

- a. Circular
- b. Trapezoidal
- c. Modified trapezoidal
- d. All above
- 58) Weld line are formed due to wrong selection of...
 - a. Gate location
 - b. Sprue
 - c. Runner
 - d. None of above
- 59) How many number of guide Piller used in IM?
 - a. 1
 - b. 2
 - c. 3
 - d. 4.
- 60) Function of guide piller is to
 - a. Aline core and cavity
 - **b.** Aline machine
 - c. Both
 - d. None of above
- 61) Function of guide bush is
 - a. Protect from wear and tear
 - b. Alignment
 - c. Both
 - d. None of above
- 62) Function of locating ring is
 - a. Alignment between machine and mould
 - b. Cooling
 - c. Ejection

- d. feeding
- 63) to collect the unwanted solid particles is a function of ..
 - a. cold slug well
 - b. sprue
 - c. runner
 - d. cavity plate
- 64) guide pillers are made up of...
 - a. MS
 - b. Cl
 - c. TOOL STEEL
 - d. EN-18

65) FUNCTION of spacer block is ...

- a. Provide space for ejector plate assembly
- b. Cooling
- c. Ejection
- d. None of above
- 66) Balance runner layout is that wher....
 - a. All cavities fill at same time
 - b. All cavities fill at different time
 - c. Both above
 - d. None of above.
- 67) Function of venting is ...
 - a. To remove entrapped air
 - **b.** To remove product
 - c. Both above
 - d. None of above
- 68) Function of ejector rod is...
 - a. To actuate the ejector plate assembly
 - b. For cooling
 - c. For feeding
 - d. None of above.
- 69) DLO stand for
 - a. Day light opening

- b. day and night opening
- c. delay of opening
- d. none of above.

70) In Hot runner mould runner are not ejected.

- a. True
- b. False

- 71) Following materials are used for making blow mould.
 - a. Aluminium
 - b. Tool steel
 - c. Both
 - d. None of the above
- 72) Following are the location of venting in blow mould
 - i. Bottom of mould
 - ii. Middle surface
 - iii. Neck insert
 - iv. All above
- **73)** Function of neck insert is.
 - a. To form upper threaded surface of product
 - b. To form handle
 - c. To form wall thickness
 - d. All above
- 74) Function of pinch off insert is
 - a. To squeezed the parison
 - b. To weld the parison
 - c. To cut the parison
 - d. All above
- 75) Function of flash pocket is

- a. To collect flash
- b. For cooling
- c. For ejection
- d. All above
- 76) Function of guide pin is
 - a. Proper alignment between two cavities half
 - **b.** Form surface
 - c. Ejection
 - d. All above
- 77) Preform is a....
 - a. Test tube like shape
 - b. Rectangular shape
 - c. Hexagonal shape
 - d. All above
- 78) Perform made using following
 - a. Injection molding
 - **b.** Extrusion
 - c. Both
 - d. All above
- 79) Hollow product manufactured using ...
 - a. Injection molding
 - **b.** Extrusion
 - c. Blow molding
 - d. All above.
- 80) Blow mould are easy for construction and designing.
 - a. True
 - b. False

- 81) Blow mould are chipper in cost as compared to injection mould.
 - a. True
 - b. False
- 82) Compressed air are used to blow parison in BM.
 - a. TRUE
 - b. FALSE
- 83) Following is a correct sentence
 - a. Venting channels should not be too large or too small
 - b. Big venting channel preferred
 - c. Both are correct
 - d. Both are incorrect
- 84) ISBM Stand for
 - a. Injection stretch blow molding
 - b. Extrusion stretch blow molding
 - c. Blow molding
 - d. All above
- 85) ESBM Stand for ..
 - a. Extrusion stretch blow molding
 - b. Blow molding
 - c. Injection molding
 - d. Extrusion molding
- 86) High strength and low weight can be possible in stretch blow molding
 - a. True
 - b. False.
- 87) Following statement is true related to SBM...
 - a. Wastage of material can be decreases
 - b. Low strength product
 - c. Both a and b
 - d. None of above .
- 88) Thin wall thickness product produce using ISBM

- a. TRUE
- b. FALSE.

89) FUNCTION of cooling in blow mould is...

- a. To solidify parison
- b. To solidify plastic material
- c. Both
- d. All above

90) Plastic Bottle with handle can not produce using ESBM

- a. TRUE
- b. FALSE.
- 91) Following are the types of pipe die.
 - a. Inline
 - b. Offset
 - c. Both a and b
 - d. None of above

92) Following are the parts present in offset pipe die

- a. Mandrel
- b. Die ring
- c. Die bush
- d. All above
- 93) Function of mandrel is..
 - a. To form inner shape of product
 - b. To form outer shape
 - c. Both of above
 - d. None of above.
- 94) Mandrel carrier function is...
 - a. To carry mandrel.
 - b. To hold mandrel
 - c. Both above
 - d. None of above
- 95) Die axes and machine axes are same in ...
 - a. Offset die
 - b. Inline die
 - c. None of above
 - d. All above

- 96) Function of die ring is...
 - a. To hold die bush
 - b. To hold mandrel
 - c. To hold screw
 - d. To hold rod
- 97) Function of die bush is ...
 - a. To control wall thickness of pipe
 - b. For cooling
 - c. For ejection
 - d. For feeding
- 98) Mandrel carrier used for
 - a. Holding mandrel.
 - b. Convert turbulent flow into laminar flow
 - c. Both a and b
 - d. None of above
- 99) Taper portion in die called as..
 - a. Land length
 - b. Approach section
 - c. Both of above
 - d. None of above.
- 100) Die bush is adjustable in pipe die.
 - a. True
 - b. False
- **101)** Die is attached with the machine by...
 - a. Adapter
 - b. Die body
 - c. Mandrel
 - d. Die ring.
- 102) Following are the types of sheet die.
 - a. Fish tail die
 - b. Coat hanger die
 - c. T die

- d. All above
- 103) Manifold is a portion in die where.
 - a. Plastic material divert in die
 - b. Eject the material
 - c. Cool the material
 - d. All above
- 104) Sheet thickness control with the help of ...
 - a. Adjusting die bush
 - b. Die ring
 - c. Mandrel
 - d. adapter
- 105) Plastic Wire can be produce by using..
 - a. Wire and cable coating die.
 - b. Coat hanger die
 - c. Inline die
 - d. Offset die
- 106) Following are the types of film die.
 - a. Center fed die
 - b. Bottom fed die
 - c. Both above
 - d. None of above
- 107) Material are fed at center....
 - a. Center fed die
 - b. Bottom fed
 - c. Side die
 - d. All above
- 108) A 90 degree flow diversion found in.
 - a. Side fed die
 - b. Center fed
 - c. Both a and b
 - d. None of above
- 109) Cooling system present in center fed die
 - a. True
 - b. False
- **110)** Following materials are used for making film die.

- a. MS
- b. Cl
- c. TS
- d. ALL above
- 111) Following types of heaters are used in mould and dies
 - a. Band heaters
 - b. Cartridge heaters
 - c. Both above
 - d. None of above
- 112) Following steps are involve at the end of machining of mould.
 - a. Bench fitting
 - b. Machining
 - c. Polishining
 - d. All above
- 113) Lathe machining are used for making
 - a. Guide piller
 - b. Sprue bush
 - c. Locating ring
 - d. Die bush .
- 114) Following operation are performed in lathe machine
 - a. Turning
 - b. Grinding
 - c. Buffing
 - d. All above.
- 115) Cavity surface should be highly polished and finished
 - a. True
 - b. False
- **116)** Following operation performed in milling machine
 - a. Reducing the thickness of plate
 - b. Making cooling channels
 - c. Both above
 - d. None of above.
- **117)** Following is a one of polishing techniques

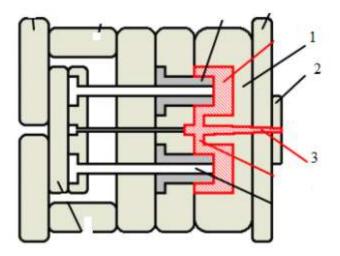
- a. Buffing
- b. Diamond polishing
- c. Both A and B
- d. None of above
- **118)** Grinding machining used for..
 - a. Polishing
 - b. Thickness levelling
 - c. Finishing
 - d. All above.
- 119) Hobbing is process in which many number of cavities are produce by pressing/forcing operating.
 - a. True
 - b. False
- 120) Following hob and mold material are used.
 - a. Hard hob and soft mold material
 - b. Soft hob and harm old material
 - c. Both A and B
 - d. None of above .
- **121)** EDM stand for..
 - a. Electro Discharge machining
 - b. Electric Discharge machining
 - c. Excentric Discharge machining
 - d. None of above.
- 122) Material are removed with the help of electric spark in ...
 - a. EDM
 - b. MILLING
 - c. Lathe
 - d. buffing
- 123) Small hole up to 2mm can be machine ith the help of ..
 - a. EDM
 - b. LATHE
 - c. Drilling
 - d. milling.
- 124) Irregular shape cavity can be machine with the help of

- a. EDM
- b. LATHE
- c. Drilling
- d. milling
- 125) Trial of mould should be taken on injection machine after making the mould.
 - a. True
 - b. False
- 126) Following software are used to design mould.
 - a. Auto cad
 - b. MOL flow
 - c. CATIEA
 - d. ALL ABOVE

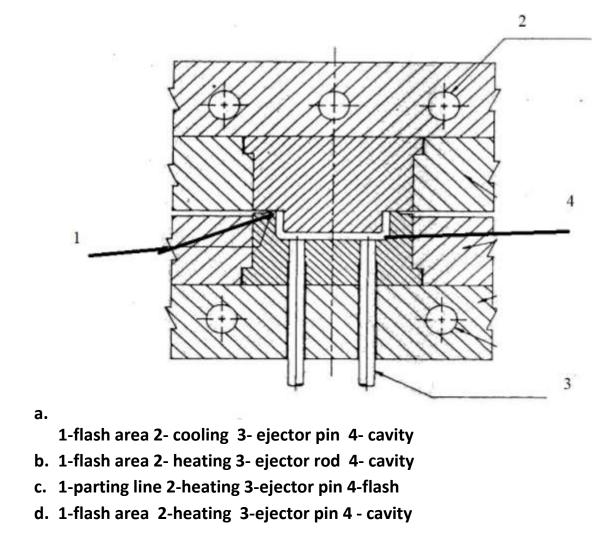
127) SILK cloth may be used for polishing the cavity of mold.

- a. True
- b. False
- 128) Portable grinding tools are used for polishing
 - a. True
 - b. False
- 129) Steam heating are used in following mold.
 - a. Rotational mould
 - **b.** Injection mould
 - c. Blow mould
 - d. All above
- **130)** Taper on core will be machine with the help of
 - a. Lathe
 - b. Milling
 - c. EDM
 - d. BORING

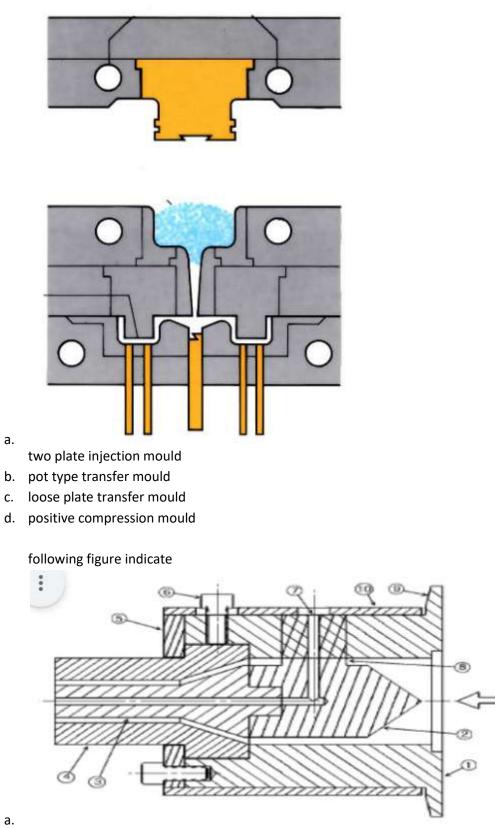
131) Identify following parts in injection mould, 1,2 and 3 show



- a. 1 sprue, 2-back plate, 3- runner
- b. 1 cavity plate, 2- locating ring, 3- sprue bush
- c. cavity plate, 2- register ring, 3- sprue
- d. cavity plate, 2- register ring, 3- RUNNER
- 132) identify the following parts in Compression mould (may be one or more answer)



133) identify following type of mould (may be one or more answer)



- inline pipe die
- b. offset pipe die
- c. fish tail die
- d. film die

identify injection gate (may be one or more answer)

135)

134)



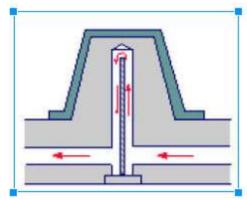
tunnel gate

- b. PINPOINT GATE
- c. TAB GATE

a.

d. RING GATE

136) Identify cooling in IM



BUBLLER

a.

137)

138)

139)

140)

- b. HELICAL
- c. BAFFLE
- d. SPIRAL
- FUNCTION OF ejector plate is..
- a. Eject the product
- b. Cooling
- c. Feeding
- d. All above
- This type of ejection did not rest ejector mark on product
- a. Air ejection
- b. Pin ejection
- c. Both above
- d. None of above
- Locating ring also called as ..
- a. Registere ring
- b. Cavity plate
- c. Core plate
- d. Stop pin
- Function of choker bar is to...
 - a. Restrict the flow
 - b. Cooling
 - c. Ejection
 - d. Feeding

- 141) Continuous shape product manufactured with the help of
 - a. Injection mould
 - b. Extrusion
 - c. Blow
 - d. All above
- 142) Feed system present in blow mould
 - a. True
 - b. False

143) Number of cavities in IM depends/calculated on the basis of

- a. Shot capacity
- b. Plasticizing capacity
- c. Clamping capacity
- d. All above
- 144) Pinch off used in injection mould
 - a. True
 - b. False

145)

146)

149)

Following factors are consider while selecting types of gate

- a. Gate location
- b. No of cavities
- c. Gate mark
- d. All above
- Clearance between core and cavity called
 - a. Impression
 - b. Guide piller
 - c. Guide bush
 - d. Ejector plate

147) Extra plastic attached with product called

- a. Cavity
- b. Flash
- c. DLO
- d. STOPPER PIN
- 148) Taper are given on core for
 - a. Easy ejection
 - b. Easy cooling
 - c. Easy feeding
 - d. All above
 - Why product always rest on core side?
 - a. Due to shrinkage of material
 - b. Due to cooling
 - c. Due to material properties
 - d. All above
- 150) Screwing operation will be performed on

- a. Lathe
- b. Milling
- c. EDM
- d. All above
- 151) Plastic material with fibre can be used in compression mould.
 - a. True
 - b. False
- 152) Following mold making material is used in CM.
 - a. CAST iron
 - b. Tool steel
 - c. HCTS
 - d. All above
- 153) More amount of flash develop in following types of CM.
 - a. Flash
 - b. Vertical semipositive
 - c. Horizontal
 - d. Fully positive
- 154) Function of pressure pad used in CM.
 - a. Control wall thickness of product.
 - b. Proper ejection
 - c. Cooling
 - d. None of above
- 155) Function of flash escapment area is
 - a. To provide area for flash
 - b. For cooling
 - c. None of above
 - d. All above
- 156) More diamensional tolerances in product can be achieve by

using

- i. Flash
- ii. Vertical semipositive
- iii. Horizontal
- iv. Fully positive
- 157) Minimum clearance between force and cavity produce high quality product.

- a. True
- b. False

158) Cavity surface should be highly polished and finished in CM.

- a. TRUE
- b. FALSE

159) More amount of flash develop in CM to maintain the quality.

- a. True
- b. False
- **160)** More flow restriction of plasticized material increases.
 - a. Strength of product
 - b. Uniform flow
 - c. Stress
 - d. None of above
- 161) Following ejection techniques is used in CM.
 - a. PIN TYPE
 - b. Stripper plate
 - c. Air ejection
 - d. All above
- 162) Compression mould size depends on.
 - a. Product size
 - b. Type of ejection
 - c. Type of cooling
 - d. All above
- 163) Cooling system present in CM.
 - i. TRUE
 - ii. FALSE
- 164) Large product produce in CM
 - a. True
 - b. False
- 165) High pressure is required in compression mould.
 - a. True
 - b. False

- 166) Following are the types of Transfer mould.
 - a. Pot type
 - b. Auxiliary ram type
 - c. Loose plate
 - d. All above
- 167) Plastic Wire can be produce by using..
 - a. Wire and cable coating die.
 - b. Coat hanger die
 - c. Inline die
 - d. Offset die
- 168) Following are the types of film die.
 - a. Center fed die
 - b. Bottom fed die
 - c. Both above
 - d. None of above
- 169) Material are fed at center....
 - a. Center fed die
 - b. Bottom fed
 - c. Side die
 - d. All above
- 170) A 90 degree flow diversion found in.
 - a. Side fed die
 - b. Center fed
 - c. Both a and b
 - d. None of above
- 171) Cooling system present in center fed die
 - a. True
 - b. False
- 172) Following materials are used for making film die.
 - a. MS
 - b. Cl
 - c. TS
 - d. ALL above
- 173) Following types of heaters are used in mould and dies

- a. Band heaters
- b. Cartridge heaters
- c. Both above
- d. None of above
- 174) Following steps are involve at the end of machining of mould.
 - a. Bench fitting
 - b. Machining
 - c. Polishining
 - d. All above
- 175) Lathe machining are used for making
 - a. Guide piller
 - b. Sprue bush
 - c. Locating ring
 - d. Die bush .
- 176) Following operation are performed in lathe machine
 - a. Turning
 - b. Grinding
 - c. Buffing
 - d. All above.
- 177) Cavity surface should be highly polished and finished
 - a. True
 - b. False
- 178) Following operation performed in milling machine
 - a. Reducing the thickness of plate
 - b. Making cooling channels
 - c. Both above
 - d. None of above.
- 179) Following is a one of polishing techniques
 - a. Buffing
 - b. Diamond polishing
 - c. Both A and B
 - d. None of above
- **180)** Grinding machining used for..

- a. Polishing
- b. Thickness levelling
- c. Finishing
- d. All above.
- 181) Hobbing is process in which many number of cavities are produce by pressing/forcing operating.
 - a. True
 - b. False
- 182) Following hob and mold material are used.
 - a. Hard hob and soft mold material
 - b. Soft hob and harm old material
 - c. Both A and B
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- 185) Small hole up to 2mm can be machine ith the help of ..
 - a. EDM
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 - c. Drilling
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- 186) Irregular shape cavity can be machine with the help of
 - a. EDM
 - b. LATHE
 - c. Drilling
 - d. milling

- 187) Trial of mould should be taken on injection machine after making the mould.
 - a. True
 - b. False
- 188) FUNCTION of cooling in blow mould is...
 - a. To solidify parison
 - b. To solidify plastic material
 - c. Both
 - d. All above
- 189) Plastic Bottle with handle can not produce using ESBM
 - a. TRUE
 - b. FALSE.
- 190) Following are the types of pipe die.
 - a. Inline
 - b. Offset
 - c. Both a and b
 - d. None of above

191) Following are the parts present in offset pipe die

- a. Mandrel
- b. Die ring
- c. Die bush
- d. All above
- 192) Continuous shape product manufactured with the help of
 - a. Injection mould
 - b. Extrusion
 - c. Blow
 - d. All above
- 193) Feed system present in blow mould
 - a. True
 - b. False
- 194) Number of cavities in IM depends/calculated on the basis of
 - a. Shot capacity
 - b. Plasticizing capacity
 - c. Clamping capacity
 - d. All above
- 195) Pinch off used in injection mould
 - a. True
 - b. False
- 196) Following factors are consider while selecting types of gate

- a. Gate location
- b. No of cavities
- c. Gate mark
- d. All above

197) Clearance between core and cavity called

- a. Impression
- b. Guide piller
- c. Guide bush
- d. Ejector plate

198) Extra plastic attached with product called

- a. Cavity
- b. Flash
- c. DLO
- d. STOPPER PIN

199) Taper are given on core for

- a. Easy ejection
- b. Easy cooling
- c. Easy feeding
- d. All above

200) guide pillers are made up of...

- a. MS
- b. Cl
- c. TOOL STEEL
- d. EN-18