

Program: BE Mechanical Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester V

Course Code: MEC503 and Course Name: Production Process III

Time: 1hour

Max. Marks: 50

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Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Transfer lines are also known as
Option A:	FMS
Option B:	Computerized machines
Option C:	NC Machines
Option D:	Automated material handling system
Q2.	Device which sends the position command signals to transmission elements of machine in NC System is
Option A:	Feedback unit
Option B:	Tape
Option C:	Controller
Option D:	Microprocessor
Q3.	In CNC machine tool, the part program entered into the computer memory
Option A:	Can be used again with modification
Option B:	Can be used 2 times
Option C:	Can be used again and again
Option D:	Can be used only once
Q4.	Number of blanks can be calculated as
Option A:	$N=L-a/s$
Option B:	$N=L-w/b$
Option C:	$N=L-b/s$
Option D:	$N=L-h/b$
Q5.	Calculate the total pressure, to produce a washer 5 cm outside dia. and 2.6 cm dia. Hole.(Given $t=4\text{mm}$, shear strength= 360N/mm^2 .)
Option A:	349.9 KN
Option B:	340KN
Option C:	335.4 KN
Option D:	343.56 KN

Q6.	Find the press capacity for cutting the blank of diameter 6 mm.(given:- $t=2\text{mm}$, shear stress= 340N/mm^2)
Option A:	1.980 Tonne
Option B:	1.305 Tonne
Option C:	12 Tonne
Option D:	50 Tonne
Q7.	This is a combined bending and cutting operation along a line in the work material, in which a hole is partially cut.
Option A:	Nibbling
Option B:	Notching
Option C:	Lancing
Option D:	Slitting
Q8.	The process of making overlapping holes in the sheet metal by removing the metal in small increments.
Option A:	Nibbling
Option B:	Notching
Option C:	Lancing
Option D:	Slitting
Q9.	Jig is a device which is
Option A:	used to hold the workpiece
Option B:	used for machining purpose
Option C:	used to hold the workpiece and guide the cutting tool
Option D:	used for batch production
Q10.	Mandrel is most common fixture used for
Option A:	Turning
Option B:	Milling
Option C:	Grinding external surface of workpiece
Option D:	shaping
Q11.	Which device is used as a "fool proofing" device
Option A:	strap clamp
Option B:	Fouling peg
Option C:	heel clamp
Option D:	Quick acting clamp
Q12.	The following type of jig is used for machining in more than one plane

Option A:	Template jig
Option B:	Plate type jig
Option C:	Open type jig
Option D:	Box type jig
Q13.	The following type of jig suits best for drilling of holes in hollow cylindrical components, with relatively smaller outside and inside diameters, such as bushes
Option A:	Solid type jig
Option B:	Pot type jig
Option C:	Box type jig
Option D:	Open type jig
Q14.	Which process is having maximum MRR from following
Option A:	EDM
Option B:	LBM
Option C:	ECM
Option D:	AJM
Q15.	Workpiece is placed in vacuum chamber in
Option A:	EBM
Option B:	EDM
Option C:	ECM
Option D:	PAM
Q16.	Demonized water is used as dielectric in which process
Option A:	CHM
Option B:	ECM
Option C:	Wire EDM
Option D:	PAM
Q17.	Which of the following factor does not affect the material removal rate in EDM?
Option A:	Crater Depth
Option B:	Discharge Time
Option C:	Melting Point of Material
Option D:	Applied Current
Q18.	Abrasive slurry used in which of the following machining process.
Option A:	Ultrasonic machining
Option B:	Abrasive jet machining
Option C:	Electric discharge machining

Option D:	Water jet machining
Q19.	Granular moulding material gets loaded into which part of machine
Option A:	Splits
Option B:	Barrel
Option C:	Pellets
Option D:	Hopper
Q20.	What is the minimum temperature to be given to injection moulding process
Option A:	120 ⁰
Option B:	130 ⁰
Option C:	150 ⁰
Option D:	140 ⁰
Q21.	Piston in the clamping unit is moved by
Option A:	Hydraulic energy
Option B:	Suction
Option C:	Pneumatic energy
Option D:	Heat energy
Q22.	Agile company is a
Option A:	Financially sound company
Option B:	Benchmark for others
Option C:	Growth oriented and constantly in a state of change
Option D:	Developed company
Q23.	What is ATC stands for in CNC .
Option A:	Air traffic control
Option B:	Automatic tool controller
Option C:	Automatic tool changer
Option D:	Automatic tailstock changer
Q24.	What is AS/RS in flexible manufacturing system
Option A:	All time storage and retrieval system
Option B:	Automatic storage and retrieval system
Option C:	Automated storage and reverse system
Option D:	Automated storage and retrieval system
Q25.	This type of jig is employed on multi-spindle machines
Option A:	Index jig
Option B:	Universal jig
Option C:	Open type jig
Option D:	Multi-station jig

