

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name -Production Technology

Course Code - DME403

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Answer all the questions. Each question carry one mark.

9. 1.How many main type of centres are there in lathe (most commonly)?

Mark only one oval.

- 1
- 2
- 3
- 4

10. 2.Which type of centre is particularly suitable for taper turning?

Mark only one oval.

- ball centre
- female centre
- half centre
- none of the mentioned

11. 3.The body of the tailstock can be adjusted by clamping with the help of_____

Mark only one oval.

- bolts
- plates
- bolts and plates both
- none of the mentioned

12. 4.Which type of rotation of the hand wheel causes the spindle to be drawn inward?

Mark only one oval.

- clockwise
- anticlockwise
- either anticlockwise or clockwise
- none of the mentioned

13. 5.Subland drill is type of drill according to _____

Mark only one oval.

- l/d ratio
- shank type
- specific use
- none of the mentioned

14. 6.In machining of a workpiece, the material is removed by _____

Mark only one oval.

- drilling action
- melting action
- shearing acting
- using brittleness of the material

15. 7.Feed is measured in units of _____

Mark only one oval.

- length/revolution
- degree/revolution
- length
- velocity

16. 8. In CNC systems multiple microprocessors and programmable logic controllers work _____

Mark only one oval.

- in parallel
- in series
- one after the other
- for 80% of the total machining time

17. 9. In how many ways CNC machine tool systems can be classified?

Mark only one oval.

- 2
- 3
- 4
- 5

18. 10. In part programming, interpolation is used for obtaining _____ trajectory.

Mark only one oval.

- helicoidal
- pentagonal
- triangular
- zig-zag

19. 11.Tapping attachment is included in _____ method of tool holding devices.

Mark only one oval.

- by chucks
- by a sleeve
- by directly fitting in the spindle
- none of the mentioned

20. 12.The rake angle of a single point cutting tool corresponds to _____ of a twist drill.

Mark only one oval.

- Lip clearance angle
- Helix angle
- Point angle
- Chisel edge angle

21. 13.The advantage of a broaching operation is that

Mark only one oval.

- Rate of production is very high
- High accuracy and high class of surface finish is possible
- Roughing and finishing cuts are completed in one pass of the tool
- All of the above

22. 14.The silicon carbide abrasive is chiefly used for grinding

Mark only one oval.

- Cemented carbide
- Ceramic
- Cast iron
- All of these

23. 15.The lathe centres are provided with standard taper known as

Mark only one oval.

- Morse taper
- Seller's taper
- Chapman taper
- Brown and Sharpe taper

24. 16.Which of the following process is used for preparing parts having large curved surfaces and thin sections?

Mark only one oval.

- Hot machining
- Ultrasonic machining
- ECM process
- Chemical milling

25. 17.For turning internal tapers, the suitable method is

Mark only one oval.

- By a form tool
- By setting over the tail stock
- By a taper turning attachment
- By swiveling the compound rest

26. 18.Which of the following operations can be performed with milling cutters?

Mark only one oval.

- Cutting key ways on shafts
- Cutting external screw threads
- Cutting teeth of spur gears
- All of these

27. 19.In grinding irregular, curved, tapered, convex and concave surfaces, the grinder used is

Mark only one oval.

- Cylindrical grinder
- Internal grinder
- Surface grinder
- Tool and cutter grinder

28. 20.The top and sides of the table of a shaper usually have

Mark only one oval.

- L-type slots
- T-type slots
- I-type slots
- Any one of these

29. 21.The operation of smoothing and squaring the surface around a hole is known as

Mark only one oval.

- Counter-sinking
- Counter-boring
- Trepanning
- Spot facing

30. 22.The lathe spindles at the nose end have

Mark only one oval.

- Internal screw threads
- External screw threads
- No threads
- Tapered threads

31. 23.The binding material used in cemented carbide tools is

Mark only one oval.

- Tungsten
- Chromium
- Silicon
- Cobalt

32. 24.An open structure of a grinding wheel is used for

Mark only one oval.

- Soft materials
- Tough materials
- Ductile materials
- All of these

33. 25.The process of removing metal by a cutter which is rotated in the same direction of travel of workpiece, is called

Mark only one oval.

- Up milling
- Down milling
- Face milling
- End milling

34. 26.The cutting tool in a milling machine is mounted on

Mark only one oval.

- Spindle
- Arbor
- Column
- Knee

35. 27.Milling machine can hold_____ cutters at a time.

Mark only one oval.

- only one
- only two
- only three
- none of the mentioned

36. 28.Which type of machining can be done by milling machine?

Mark only one oval.

- cutting keyways
- slots and grooves
- gears
- all of the mentioned

37. 29. Which of the following motion does a milling machine has?

Mark only one oval.

- vertical motion
- crosswise motion
- longitudinal motion
- all of the mentioned

38. 30. The device, fed to the control unit of NC machine tool which sends the position command signals to sideway transmission elements of the machine, is called as

Mark only one oval.

- controller
- tape
- feedback unit
- none of the above

39. 31. Which of the following options is correct for the control unit and panel of NC (Numerical Control) and CNC (Computer Numerical Control) machine tools?

Mark only one oval.

- The control unit of NC machine tool works in ON-line mode and the control unit of CNC machine tool works in batch processing mode
- The control unit of NC machine tool works in batch processing mode and the control unit of CNC machine tool works in ON-line mode
- The control units of both NC and CNC machines work in ON-line mode
- The control units of both NC and CNC machines work in batch processing mode

40. 32. Several machine tools can be controlled by a central computer in

Mark only one oval.

- NC (Numerical Control) machine tool
- CNC (Computer Numerical Control) machine tool
- DNC (Direct Numerical Control) machine tool
- CCNC (Central-Computer Numerical Control) machine tool

41. 33. The machine tool, in which calculation and setting of the operating conditions like depth of cut, feed, speed are done during the machining by the control system itself, is called

Mark only one oval.

- Computer Numerical Control System
- Direct Numerical Control System
- Machining Centre System
- Adaptive Control System

42. 34. Hobbing process is also used for which of the following application?

Mark only one oval.

- Punching
- Metal bending
- Rust removal
- Sprocket cutting

43. 35. For spur gear manufacturing, angle between the hob's spindle axis and the workpiece's spindle axis should be equal to ____

Mark only one oval.

- (helix angle of the hob)/2
- $2 \times$ (helix angle of the hob)
- (helix angle of the hob)
- (helix angle of the hob)²

44. 36. Hobbing machines are characterised by ____

Mark only one oval.

- production rate
- largest module or PCD it can generate
- accuracy of the machine
- size of the machine

45. 37. As the number of threads on the hob increases, its accuracy ____

Mark only one oval.

- increases
- decreases
- remains same
- can't say

46. 38. Ideally how many gear threads should be there or each hob thread?

Mark only one oval.

- 20
- 30
- 45
- 10 times the number of hob threads

47. 39. Grinding wheel is specified as "C 8 K 5 B 17". Grain size of a wheel will be

Mark only one oval.

- Coarse
- Medium
- Fine
- Very Fine

48. 40. Which of the following grinding wheel will have fine grain size?

Mark only one oval.

- A 46 K 5 B 17
- C 600 K 5 B 17
- C 8 K 5 B 17
- A 80 K 5 B 17

49. 41.Which of the following specified grinding wheel will have Zirconia abrasive?

Mark only one oval.

- A 46 K 5 B 17
- C 600 K 5 B 17
- C 8 K 5 B 17
- A 80 K 5 B 17

50. 42.Operation done to make periphery of grinding wheel concentric with its axis to recover its lost shape is known as

Mark only one oval.

- Loading
- Glazing
- Dressing
- Trueing

51. 43.Grain number of grinding wheel is ___ to grain size.

Mark only one oval.

- Directly proportional
- Inversely proportional
- Does not depend
- None of the mentioned

52. 44. Which of the following is the correct range for grain number of the grinding wheel for medium grains?

Mark only one oval.

- 220-600
- 80-180
- 30-60
- Ten to twenty four

53. 45. Which of the following is the correct range for grain number of the grinding wheel for very fine grains?

Mark only one oval.

- 220-600
- 80-180
- 30-60
- Ten to twenty four

54. 46. Which of the following grinding machine will give a better result for finish machining operation?

Mark only one oval.

- Fine grain
- Medium grain
- Coarse grain
- None of the mentioned

55. 47. Which of the following symbol's range of alphabet represent medium hardness grain in grinding wheel?

Mark only one oval.

A - H

I - P

Q - T

T - Z

56. 48. Which of the following is a surface finishing operation?

Mark only one oval.

Drilling

Honing

Milling

Turning

57. 49. Which of the following process have the lowest metal removal rate?

Mark only one oval.

Drilling

Reaming

Milling

Lapping

58. 50. For practical honing conditions, cross hatch angle in degrees is generally taken in the range of

Mark only one oval.

- 20 to 40
- 40 to 50
- 50 to 60
- 10 to 15

59. 51. During a honing process, reciprocating speed of honing tool was 9m/min with a cross hatch angle of 30 degree. Rotary speed in m/min is equal to

Mark only one oval.

- 33.58
- 35
- 30
- 25.23

60. 52. In lapping, following abrasive is used for soft ferrous and non-ferrous metals.

Mark only one oval.

- Silicon Carbide
- Natural Corundum
- Diamond
- Aluminium Oxide

61. 53.For lapping of cemented carbides, ____ is used.

Mark only one oval.

- Emery
- Diamond
- Silicon carbide
- Aluminium oxide

62. 54.The allowance on diameter or thickness for general lapping work is

Mark only one oval.

- 0.001 mm to 0.015 mm
- 0.015 mm to 0.05 mm
- 0.05 mm to 0.075 mm
- 0.075 mm to 0.1 mm

63. 55.The operation of running two mating parts or shapes together with an abrasive between them

Mark only one oval.

- Equalizing Lapping
- Form Lapping
- Hand Lapping
- Machine Lapping

64. 56. Hand lapping is used mainly for

Mark only one oval.

- Press work dies
- Races of Roller bearings
- Gears
- Pistons

65. 57. In vertical spindle lapping machine

Mark only one oval.

- Lower wheel rotates, Upper wheel remains stationary
- Upper wheel rotates, Lower wheel remains stationary
- Both wheels remain stationary
- Both wheels rotate

66. 58. In case of honing, the tool used is made in the form of a

Mark only one oval.

- cylinder
- stick
- cube
- round

67. 59. Following grain(s) of suitable grit is (are) used for honing

Mark only one oval.

- Silicon Carbide
- Aluminium Oxide
- Diamond
- All of the above

68. 60. Which Operation is employed prior to super finishing

Mark only one oval.

- Drilling
- Milling
- Grinding
- Any of these

69.

Mark only one oval.

- Option 1

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