Unit 5 -Introduction to Manufacturing

- 1. Which of the following is manufacturing process?
 - a. Forging
 - b. Welding
 - c. Casting
 - d. All of the above
- 2. Which of the following is not a part of carriage of the centre lathe?
 - a. Tool post
 - b. Apron
 - c. Compound rest
 - d. Gear box controls
- 3. The centre lathes receive their power through
 - a. Headstock
 - b. Tailstock
 - c. Both a & b
 - d. None of the above
- 4. A flat surface can be produced by a lathe machine, if the cutting tool moves
 - a. parallel to the axis of rotation of workpiece
 - b. at an angle of 45°
 - c. perpendicular to the axis of rotation of work piece
 - d. None of the above
- 5. What is the function of pulley drive in lathe machines
 - a. Drive the lead screw
 - b. Change the spindle speed
 - c. Drive the tail-stock
 - d. All of the above
- **6.** Which of the following is a mechanism for mechanized movements of the carriage along longitudinal axis?
 - a. Cross-slide
 - b. Compound rest
 - c. Apron
 - d. Saddle
- 7. The function of taper turning process is to

- a. reduce the diameter of a work piece along its length
- b. reduce the diameter by removing material about an axis offset from the axis of work piece
- c. remove the material from end surface of a work piece
- d. All of the above
- 8. The process of removing sharp ends of a work piece is called as
 - a. Knurling
 - b. Grooving
 - c. Facing
 - d. Chamfering
- 9. What is meant by drag in casting process?
 - a. Upper part of casting flask
 - b. Molten metal
 - c. Lower part of casting flask
 - d. Upper & lower part of casting flask
- Casting replica used to make the cavity is called as
 - a. Mould
 - b. Pattern
 - c. Cope
 - d. None of the above
- 11. The process of joining similar or dissimilar materials by heating them below 450°C using non-ferrous filler material is called as
 - a. Brazing
 - b. Soldering
 - c. Welding
 - d. All of the above
- 12. Which process squeezes metals into peaks and troughs with plastic deformation?
 - a. Knurling
 - b. Grooving
 - c. Reaming
 - d. None of the above

- 13. Which of the following operations is/are performed on a lathe machine
 - a. Spot-facing
 - b. Parting
 - c. Reaming
 - d. All of the above
- 14. The process of chamfering the entrance of a drilled hole is known as
 - a. counter-boring
 - b. counter-sinking
 - c. counter-fillet
 - d. trepanning
- 15. On drilling machine, which process is known as reaming?
 - a. Enlargement of existing hole
 - b. Hole made by removal of metal along the hole circumference
 - c. Smoothly finishing and accurately sizing a drilled hole
 - d. All of the above
- 16. Match the following Manufacturing processes with their Types and select the correct option.
 - 1.Metal forming A. Grinding
 - 2.Surface finish B. Rivetting
 - 3.Sheet metal working ------C. Extrusion
 - 4. Metal joining

——-D. Blanking

- a. 1 A, 2 C, 3 D, 4 B
- b. 1 C, 2 A, 3 D, 4 B
- c. 1 B, 2 A, 3 D, 4 C
- d. 1 D, 2 B, 3 A, 4 C
- 17. In which of the following processes, material is neither added nor removed but is deformed into desired shape
 - a. Surface finishing process
 - b. Metal forming process
 - c. Casting
 - d. Machining
- 18. What is the process, in which the metal is caused to flow through a restricted orifice to

- create an extremely elongated strip of uniform and comparatively smaller crosssectional area, called?
 - a. Rolling
 - b. Extrusion
 - c. Drawing
 - d. Spinning
- 19. Castings are usually
 - a. costlier than forgings
 - b. cheaper than forgings
 - c. at the same rate as forging for similar metal
 - d. none of the above
- 20. Which of the following options best describes the centre lathes?
 - a. Machining machines
 - b. Shaping machines
 - c. Turning machines
 - d. None of the above
- 21. The process of joining two pieces of metal with a different fusible metal applied in a molten state is called as
 - a. welding
 - b. soldering
 - c. both a. and b
 - d. none of the above
- 22. Which gears are used to connect two intersecting shaft axes?
 - a. Crossed helical gear
 - b. Worm and worm wheel
 - c. Bevel gears
 - d. All of the above
- 23. What is meant by gear ratio?
 - a. The ratio of pinion speed and gear speed
 - b. The ratio of number of teeth on pinion and number of teeth on gear
 - c. Both a. and b
 - d. None of the above
- 24. The sand in its natural or moist state is called as

- a. green sand
- b. loam sand
- c. dry sand
- d. none of the above
- 25. Micro machining processes (MMPs) are used to increase selectivity, accuracy, performance, etc. parameters
 - a. True

- b. False
- 26. Choose the odd one out.
 - a. micro-turning
 - b. micro-milling
 - c. micro-EBM
 - d. micro-grinding

Answer Sheet:

Q. No.	Solution						
1	d	8	d	15	С	22	С
2	d	9	С	16	b	23	a
3	a	10	b	17	b	24	a
4	С	11	b	18	b	25	a
5	b	12	a	19	b	26	С
6	С	13	b	20	С		
7	a	14	b	21	b		