

## MCQ FC 4955 Industrial Organization and Management

### 1. PERT analysis is based on

- (A) Optimistic time
- (B) Pessimistic time
- (C) Most likely time
- (D) All of the above

### 2. CPM is the

- (A) Time oriented technique
- (B) Event oriented technique
- (C) Activity oriented technique
- (D) Target oriented technique

### 3. Father of time study was

- (A) F.W. Taylor
- (B) H.L. Gantt
- (C) F.B. Gilbert
- (D) R.M. Barnes

### 4. Work study comprises following main techniques

- (A) Method study and work measurement
- (B) Method study and time study
- (C) Time study and work measurement
- (D) Method study and job evaluation

### 5. P.M.T.S. (Predetermined Motion Time Systems) include

- (A) M.T.M. (Method Time Measurement)
- (B) W.F.S. (Work Factor Systems)
- (C) B.M.T.S. (Basic Motion Time Study)
- (D) All of these

### 6. Work study is concerned with

- (A) Improving present method and finding standard time
- (B) Motivation of workers
- (C) Improving production capability
- (D) Improving production planning and control

**7. Which one of the following techniques is used for determining allowances in time study?**

- (A) Acceptance sampling
- (B) Linear regression
- (C) Performance rating
- (D) Work sampling

**8. In manufacturing management, the term 'Dispatching' is used to describe**

- (A) Dispatch of sales order
- (B) Dispatch of factory mail
- (C) Dispatch of finished product of the user
- (D) Dispatch of work orders through shop floor

**9. In a functional organisation**

- (A) Quality of work is better
- (B) Wastage of material is minimum
- (C) Specialized knowledge and guidance to individual worker is provided
- (D) All of the above

**10. Choose the wrong statement. Motion study is used for**

- (A) Improving a work method
- (B) Improvising a work method
- (C) Designing a work method
- (D) Reducing inventory costs

**SAMPLE MCQ**  
**COURSE CODE ME5971 – REFRIGERATION AND AIRCONDITIONING**

1. In vapour compression cycle, the condition of refrigerant is saturated liquid

- (a) after passing through the condenser
- (b) before passing through the condenser
- (c) after passing through the expansion valve
- (d) before entering the expansion valve

Ans: a

2. One ton of refrigeration is equal to the refrigeration effect corresponding to melting of 1000 kg of ice

- (a) in 1 hour
- (b) in 1 minute
- (c) in 24 hours
- (d) in 12 hours

Ans: c

3. An important characteristic of absorption system of refrigeration is

- (a) noisy operation
- (b) quiet operation
- (c) cooling below 0°C
- (d) very little power consumption

Ans: b

4. Absorption system normally uses the following refrigerant

- (a) Freon-11
- (b) Freon-22
- (c) SO<sub>2</sub>
- (d) ammonia.

Ans: d

5. In a flooded evaporator refrigerator, an accumulator at suction of compressor is used to

- (a) collect liquid refrigerant and prevent it from going to compressor
- (b) increase refrigeration effect
- (c) superheat the vapour
- (d) collect vapours

Ans: a

6. In a refrigeration cycle, the flow of refrigerant is controlled by

- (a) compressor
- (b) condenser
- (c) evaporator
- (d) expansion valve

Ans: d

7. At 100% relative humidity, the wet bulb temperature is

- (a) lower than the dew point temperature
- (b) higher than the dew point temperature
- (c) equal to the dew point temperature
- (d) none of the above

Ans: c

8. The temperature of air recorded by thermometer when the bulb is covered by a cotton wick saturated by water is called as

- (a) dry bulb temperature
- (b) wet bulb temperature
- (c) stream temperature
- (d) psychrometric temperature

Ans: b

9. Design conditions for a summer air-conditioning system for a small office building are as follows:

Room sensible heat 75 KW, sensible heat from outside air 35 KW, Room latent heat 25 kW, Latent heat from outside air 50 KW. What is SHR.

- (a) 110/185
- (b) 75/100
- (c) 35/85
- (d) 110/75

Ans: b

10. Cold storage is

- (a) Building designed to store agriculture goods
- (b) Building designed to store perishable goods
- (c) Building designed to store commercial goods
- (d) Building designed to store domestic goods

# MECHANICAL ENGINEERING DEPARTMENT

## SAMPLE MCQs ON - FC5977 - HYDRAULICS AND PNEUMATICS

| Sr.No | Unit No. | Question Level (R/U/A) | Question Details  | Answer- Text Option                                     |   |  |                        | Answer (ABCD) |
|-------|----------|------------------------|---|---|---|--|------------------------|---------------|
|       |          |                        |   | Option A  | Option B  | Option C   | Option D               |               |
| 1     | 1        | 1R1                    | Which of the following systems generate more energy when used in industrial applications? | hydraulic systems                                       | pneumatic systems   | both systems generate same energy                        | None of the above      | A             |
| 2     | 2        | 2R1                    | Motors used in high speed applications have   | high torque with high speed                             | low torque with high speed  | high torque with low speed                               | None of the above      | B             |
| 3     | 2        | 2R1                    | What happens when the distance between flange and cylinder block is varied?               | piston displacement cannot be varied                    | variable flow rate of fluid can be achieved                       | fixed flow rate can be achieved                          | all of the above       | B             |
| 4     | 2        | 2R1                    | Which of the following is a hydraulic cylinder based on application?                      | Welded  | Bolted  | Ram  | all of the above       | C             |
| 5     | 3        | 3R1                    | which circuit is used for performing more than one operation                              | Sequence circuit  | Meter In  | Meter out  | Impulse                | A             |
| 6     | 4        | 4R1                    | In pneumatic system compressed air after doing work in actuator is                        | Return to tank  | Exhausted to atmosphere   | Consumed by system                                       | None of the above      | B             |
| 7     | 5        | 5R1                    | Where is an intercooler connected in a two stage compressor?                              | intercooler is connected after the two stage compressor | intercooler is connected between the two stages of the compressor | intercooler is connected before the two stage compressor | None of the above      | B             |
| 8     | 5        | 5R1                    | Which of the following gas is used in gas charged accumulator?                            | Oxygen  | Nitrogen  | Co <sub>2</sub>  | all of the above       | B             |
| 9     | 5        | 5R1                    | What does the numbers in 4/2 valve mean?  | 4 positions and 2 ways                                  | 3 ways and 2 positions  | 2 ways and 3 positions                                   | 4 ways and 2 positions | D             |
| 10    | 6        | 6R1                    | Which component is used to set the pressure in a pneumatic circuit?                       | Lubricator  | Pressure gauge  | Flow control valve                                       | Pressure regulator     | D             |



**Course: ME3902 Workshop Technology**

**Q1 ) In Pattern Making the allowances provided are , listed , which one is not a allowance ?**

- (a) Draft Allowance.
- (b) Shrinkage Allowance.
- (c) Machining Allowance.
- (d) None the above is correct.

**Q.2) What is Core Print ?**

- (a) It in painting on patterns.
- (b) It is a projection On pattern.
- (c) Design made on patterns.
- (d) None of Those above.

**Q.3) Iron ore, scrap iron, lime, coke are the raw material for which furnace?**

- (a) Electric Arc Furnace.
- (b) Induction Furnace
- (c) Cupola Furnace.
- (d) Reverberatory, Hearth, or Crucible Furnace.

**Q.4) Which of the following is not a defect in casting ?**

- (a) POROSITY
- (b) Cracks
- (c) COLD SHUT
- (d) Polish

**Q.5) Following are the types of which manufacturing Process?**

- (a) Arc.
- (b) Friction.
- (c) Electron Beam.
- (d)Laser.

**Q.6 Single Point Cutting Tool is not used in which of following?**

- (a) Milling machine
- (b) Shaping machine
- (c) drilling machine
- (d) welding machine

**Q.7** The back rack angle is positive if the side cutting edge slopes which side from the point towards the shank?

- (a) Down side
- (b) Up side
- (c) Right side
- (d) Left side

**Q.8** reaming is a cutting process that involves the use of \_\_\_\_\_cutting tool ?

- (a) Straight
- (b) Curved
- (c) Rotary
- (d) none of above

**Q.9 Quick return mechanism is used in which of following Machine?**

- (a) Lathe
- (b) Milling
- (c) Shaping
- (d) Drilling

**Q.10 Tapping is ?**

- (a) Threading operation
- (b) diameter reducing operation
- (c) diameter increasing operation
- (d) none of above

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**Dr M.S.Tripathi , 18.09.2020**

**Sample MCQ – ME3903- Thermal Engineering**

| Sr. No. | Question Text   | Option A   | Option B   | Option C   | Option D   |
|---------|---|--|--|--|--|
| 1.      | In an isolated system, _____ can be transferred between the system and its surrounding.                   | only energy  | only mass  | both energy and mass   | neither energy nor mass  |
| 2.      | Which of the following is an extensive property?  | Volume   | Pressure   | Viscosity  | All of the above   |
| 3.      | The extensive properties of a system, -----<br>-----  | are independent of the mass of the system                        | depend upon temperature of the system                            | depend upon the mass of the system                                       | none of the above  |
| 4.      | An isobaric process, has constant -----<br>-----  | density  | pressure   | temperature  | volume   |
| 5.      | According to Joule's law, the internal energy of a perfect gas is the function of absolute -----<br>----- | density  | pressure   | temperature  | volume   |
| 6.      | Which of the following relations is true, for coefficient of performance (C.O.P)?                         | $(C.O.P)_{\text{heat pump}} - (C.O.P)_{\text{refrigerator}} = 1$ | $(C.O.P)_{\text{heat pump}} - (C.O.P)_{\text{refrigerator}} > 1$ | $(C.O.P)_{\text{heat pump}} - (C.O.P)_{\text{refrigerator}} < 1$         | $(C.O.P)_{\text{heat pump}} - (C.O.P)_{\text{refrigerator}} = 0$ |
| 7.      | A definite area or a place where some thermodynamic process takes place is known as                       | Thermodynamic system   | Thermodynamic circle   | Thermodynamic process  | Thermodynamic law  |
| 8.      | The measurement of a thermodynamic property known as the temperature is based on                          | Zeroth law of thermodynamics                                     | First law of thermodynamics                                      | Second law of thermodynamics   | None of these  |
| 9.      | The universal gas constant (or molar constant) of a gas is the product of                                 | The molecular mass of the gas and constant                       | Atomic mass of the gas and the gas constant                      | The molecular mass of the gas and the specific heat at constant pressure | The molecular mass of the gas and the specific heat at constant  |
| 10.     | An adiabatic process is one in which  | No heat enters or leaves the gas                                 | The temperature of the gas changes                               | The change in internal energy is equal to the mechanical work            | All of the above   |

# Mechanical Engineering Sample MCQ

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## Course: ME3906 FLUID POWER

- 1) The specific volume of a liquid is the reciprocal of
  - a) weight density
  - b) mass density
  - c) specific weight
  - d) specific volume
- 2) Which one of the following is the unit of pressure?
  - a) N
  - b) N/m
  - c)  $\text{N/m}^2$
  - d)  $\text{N/m}^3$
- 3) Pressure intensity or force due to pressure gradient for fluid at rest is considered as which kind of force?
  - a) Surface force
  - b) Body force
  - c) Force due to motion
  - d) None of the mentioned
- 4) Which one of the following is a major loss?
  - a) frictional loss
  - b) shock loss
  - c) entry loss
  - d) exit loss
- 5) Which is the most suitable place to build a hydroelectric power plant?
  - a) Deserts
  - b) Grasslands
  - c) Hilly areas
  - d) Underground
- 6) Gross head is defined as \_\_\_\_\_
  - a) Difference of flow of object
  - b) Difference of flow of air
  - c) Difference of flow of water
  - d) Difference of water level between the head race and tail race
- 7) A manometric liquid should suitably have \_\_\_\_\_
  - a) Low density & Low Vapour pressure
  - b) Low density & High Vapour pressure
  - c) High density & Low Vapour pressure
  - d) High density & High Vapour pressure
- 8) The main function of centrifugal pumps are to \_\_\_\_\_
  - a) Transfer speed
  - b) Transfer pressure
  - c) Transfer temperature
  - d) Transfer energy
- 9) Hydraulic ram is a device used for
  - a) Increasing pressure
  - b) Storing energy
  - c) Lifting small quantity of water to a greater height
  - d) None of the above
- 10) Axial thrust is nil in
  - a) Axial flow pump
  - b) Screw pump
  - c) Vane pump
  - d) lobe

DEPARTMENT OF MECHANICAL ENGINEERING

SAMPLE MCQS

ME3908- METALLURGY

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**NOTE: 1. Each Question carries one mark.**

**2. Select correct option.**

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**Q1.** The ductility is the property of a material due to which it,

- a. can be drawn into wires
- b. breaks with little permanent distortion
- c. can be rolled or hammered into thin sheets
- d. can resist fractured due to high impact load

**Q2.** In a closed packed hexagonal space lattice, there are

- a. Nine atoms out of which eight atoms are located at the corners of the cube and one atom at its center.
- b. Twelve atoms, all of which are located at the twelve corners of the hexagonal prism.
- c. Fourteen atoms out of which eight atoms are located at the corners of the cube and six atom at the center of six faces.
- d. None of the above.

**Q3.** Normalizing of steel is done to

- a. refining the grain structure
- b, remove strains caused by cold working
- c. remove dislocations caused in the internal structure due to hot working
- d. all of the above

**Q4.** 18/8 steel consists of

- a. 18% Nickel & 8% Chromium.
- b. 8% Nickel & 18% Chromium.
- c. 18% Nickel & 18% Chromium.
- d. 8% Nickel & 8% Chromium.

Q5 Cast iron is a

- a. ductile material
- b. malleable material
- c. brittle material
- d. tough material

Q6. Muntz metal (yellow brass ) contains

- a. 70% copper and 30% zinc
- b. 60% copper and 40% zinc
- c. 59% copper , 40% zinc and 1% tin
- d. 62.5 , copper 36% zinc and 1.5% lead

Q7. Production of pure powder of iron and copper can be effectively done using?

- a. Atomization
- b. Reduction
- c. Crushing
- d. Electrolysis

Q8. In deformation by twin, deformation occurs along two \_\_\_\_ planes

- a. perpendicular
- b. parallel
- c. inclined
- d. none of the above

Q9. In nodular iron, graphite is in the form of.....

- a. Cementite
- b. Free carbon
- c. Flakes
- d. Spheroids

Q10. Hardening of machine tool guide ways is usually done by

- a. Induction hardening
- b. Flame hardening
- c. Salt bath furnaces
- d. Vacuum hardening



## Power Engineering ME 5961(Final year Mechanical)

Q1). Compression engines operates on \_\_\_\_\_

- A) Otto cycle
- B) Diesel cycle
- C) Rankain cycle
- D) None of the above

Ans (B)

Q2) A Carburettor is used to supply\_\_\_\_\_

- A) Petrol and air
- B) Petrol
- C) Diesel
- D) Air

Ans (A)

Q3) In A Diesel engine the fuel is injected by\_\_\_\_\_

- A) Spark plug
- B) Carburettor
- C) Injector
- D) None of above

Ans (C)

Q4) Indicator diagram is used to find out \_\_\_\_\_

- A) Brake power
- B) Indicated power
- C) Friction power
- D) All of them

Ans (B)

Q5) The rotary compressor are used for delivering\_\_\_\_\_

- A) Large quantities of air at low pressure
- B) Large quantities of air at High pressure
- C) Small quantity of air at High pressure
- D) Small quantities of air at low pressure

Ans (A)

Q6) What is the air standard cycle for a gas turbine called \_\_\_\_\_

- A) Otto cycle
- B) Brayton cycle
- C) Rankin cycle
- D) None of them

Ans (B)

Q7) In thermal power plants the dust of flue gases is trapped by \_\_\_\_\_

- A) Precipitator
- B) Catalytic converter
- C) Filter
- D) None of above

Ans (A)

Q8) In thermal power plant turbine is placed between\_\_\_\_\_

- A) Between cooling tower and boiler
- B) Generator and Cooling towers
- C) Boiler and Generator
- D) None of above

Ans (C)

Q9) Critical temperature is the temperature above which \_\_\_\_\_

- A) A gas will never liquify
- B) A gas will liquify
- C) A gas will be released
- D) None of above

Ans (A)

Q10) During sensible cooling of air the specific humidity \_\_\_\_\_

- A) Increases
- B) Decrease
- C) Remains constant
- D) None of above

Ans (B)

# ME 5962 Machine Design Final year Mechanical

1) A cotter joint is used to connect two \_\_\_\_\_ rods.

- A.Co-axial
- B.Perpendicular
- C.Parallel
- D.None of these

Ans (A)

2) Transverse fillet welded joints are designed for

- A.Tensile strength
- B.Compressive strength
- C.Shear strength
- D.Bending strength

Ans (C)

3) In a flange coupling, the bolts are subjected to

- A.Tensile stress
- B.Compressive stress
- C.Shear stress
- D.None of these

Ans (C)

4) Which one of the following loading is considered for the design of axles?

- A.Bending moment only
- B.Twisting moment only
- C.Combined bending moment and twisting moments
- D.Combined action of bending moment, twisting moment and axial thrust

Ans (A)

5) The valve rod in a steam engine is connected to an eccentric rod by

A.Cotter joint

B.Bolted joint

C.Knuckle joint

D.Universal coupling

Ans (C)

6) A double strap butt joint (with equal straps) is

A. Always in single shear

B. Always in double shear

C.Either in single shear or double shear

D.Any one of these

Ans (B)

7) When screw threads are to be used in a situation where power is being transmitted in one direction only, then the screw threads suitable for this will be

A.Knuckle threads

B.Square threads

C.Acme threads

D.Buttress threads

Ans(D)

8) The property of a material which enables it to be drawn into wires with the application of a tensile force, is called

A.Plasticity

B.Elasticity

C.Ductility

D.Malleability

Ans (C)

9) Where is bell crank lever is used \_\_\_\_\_

- A) Railway signals
- B) For connecting rods
- C) Steam engines
- D) None of above Ams

ANS (A)

10) Spring rate is the ratio of

- A) Load and deflection
- B) Load and free length
- C) Deflection and free length
- D) None of above

Ans (A)

# Mechanical Engineering Sample MCQ

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Course: **ME5963** Manufacturing Presses

**Q1 ) Out of Capstan Lathe & Turret Lathe which of following is correct ?**

- (a) Capstan Lathe is Heavy weight Machines.
- (b) Turret Lathe Is Heavy weight Lathe Machines.
- (c) Both are same weight Machines.
- (d) All of the above is correct.

**Q.2) When looking to GPM and SPM following is Correct ?**

- (a) Less accurate work piece.
- (b) Very Accurate Work piece.
- (c) Damaged Work piece.
- (d) None of Those above.

**Q.3) Which One of following is not a Column and knee Type milling Machines?**

- (a) Horizontal Milling Machine .
- (b) Vertical Milling Machines
- (c) Universal Milling Machines.
- (d) Simplex Milling Machines.

**Q.4) Which machine is used for producing smooth and accurate holes in a work piece by enlarging existing holes ?**

- (a) Drilling machine
- (b) Milling Machine
- (c) Boring machine
- (d) Broaching Machine

**Q.5) Construction of a broaching machine criteria of classification is ?**

- (a) Vertical broaching machine.
- (b) Horizontal broaching machine.
- (c) Rotary broaching machine.
- (d) Universal Broaching machine.

**Q.6 Which of the following is Abrasive material used in machining?**

- (a) Aluminium oxide
- (b) Silicon Carbide
- (c) Steel wool
- (d) all of the above

**Q.7 In EDM and ECM Tool wear is more in which process?**

- (a) EDM
- (b) ECM
- (c) Same In both
- (d) nil in both

**Q.8 What is G code for Rapid Transverse in CNC Programming?**

- (a) G00
- (b) G01
- (c) G02
- (d) G04

**Q.9 What is Indexing?**

- (a) Used in Gear Cutting
- (b) Used in EDM
- (c) Used in ECM
- (d) Used in LBM

**Q.10 Application of Ultrasonic Machining Is ?**

- (a) Material of high hardness
- (b) Material of Low hardness
- (c) Wood Material
- (d) all of above

# Sample MCQ ME5964 -Metrology and Quality Assurance

Que 1. Which activity is not related to metrology?

- a. Establishment    b. Conservation    c. Reproduction    d. comparator

Ans: d. comparator

Que 2. Calibration standards is not affected by

- a. Ambient Condition    b. Stability with time    c. Elastic properties    d. Sources of errors.

Ans: d. Sources of errors.

Que3. Parkinson's gear tester is the application of

- a. Dial Indicator    b. Pneumatic comparator    c. Optical comparator    d. Electric Comparator

Ans : a) Dial Indicator

Que 4. For determining roundness of job, which comparator is used

- a. Dial indicator    b. Sigma comparator    c. Pneumatic comparator    d. Optical comparator

Ans: c. Pneumatic comparator

Que5. In which comparator light source are used to check the flatness of work piece

- a. Dial indicator    b. Sigma comparator    c. Pneumatic comparator    d. Optical comparator

Que 6.  $20H_7f_8$  with respect to fit 20 stands for

- a. Hole size    b. actual size of hole    c. size of shaft    d. Basic size

Ans: d. Basic size

Que 7. Difference between maximum limit size and minimum limit size is

- a. Allowance    b. Tolerance    c. Limit    d. fit

Ans : b. Tolerance

Que 8. Tooth thickness of gear by constant chord method

- a.  $W = \pi/2.m.\cos^2\phi$     b.  $W = \pi.m.\cos\phi$     c.  $W = 2\pi.m.\cos^2\phi$     d.  $W = \pi/2.m.\cos\phi$

Ans : a.  $W = \pi/2.m.\cos^2\phi$

Que 9. Which error is not related to Gear

- a. Backlash error    b. Runout    c. Axial Runout    d. parallax error

Ans : d. parallax error

Que 10. Primary texture is also called as

- a. Macro-geometrical errors    b. Micro-geometrical errors    c. Waviness    d.  
all of above

Ans : b. Micro-geometrical errors

**SAMPLE QUESTION BANK FOR MECHANICAL MEASUREMENT COURSE CODE :- ME 5965**

| Question Details |          |                        |   | Answer- Text Option            |  |                                    |  |               |
|------------------|----------|------------------------|---|--------------------------------|--|------------------------------------|--|---------------|
| Sr.No.           | unit No. | Question Level (R/U/A) | Question Text   | Option A                       | Option B                                       | Option C                           | Option D   | Answer (ABCD) |
| 1                | 1        | NA                     | Where the sensor does not communicate physically with the medium is called as | Non-contractile measurement.   | contractile measurement.                       | Ideal measurement                  | None of the above                                | A             |
| 2                | 1        | NA                     | Which of the following is the self generating instrument                      | Potential electric device      | Piezo electric pick up                         | Thermistor                         | IVD transformer                                  | B             |
| 3                | 2        | NA                     | From the following which one is not the static characteristic                 | Range                          | Span   | Speed of Response                  | Accuracy   | C             |
| 4                | 3        | NA                     | Which of the following devices is not used for pressure measurement?          | Diaphragm gauge                | Pressure bellows                               | MacLeod gauge                      | Filler gauge                                     | D             |
| 5                | 4        | NA                     | A pitot static tube measures  | Dynamic pressure               | Static pressure                                | Stagnant pressure                  | Differential pressure                            | A             |
| 6                | 5        | NA                     | Which of the following can be used for measuring temperature?                 | Metallic diaphragm             | Fluid expansion system                         | Capsule                            | Bourdon tube                                     | B             |
| 7                | 6        | NA                     | Slip ring are used in Strain gauge dynamometer to transmit signal             | From rotary to stationary unit | From stationary unit to o/p signal             | From rotary to i/p signal unit     | None of the above                                | A             |
| 8                | 7        | NA                     | standard for force depends on standards of                                    | Acceleration only              | mass only                                      | mass and acceleration              | None of the above                                | C             |
| 9                | 8        | NA                     | The Stroboscope of speed measurement has the advantage that                   | The method is simple           | The multiples of angular speed can be measured | A stationary image can be observed | No need of physical contact with the moving part | D             |
| 10               | 9        | NA                     | In which unit sound is measured?  | Decibel                        | Centimal                                       | Decimal                            | None of the above                                | A             |

## MCQ ON ME5966 PRODUCTION TECHNOLOGY AND ROBOTICS

1. For handling materials during manufacture of cement, a \_\_\_\_\_ is widely used.

- (A) Belt conveyor
- (B) Bucket conveyor
- (C) Fork lift truck
- (D) Overhead crane

2. P.M.T.S. (Predetermined Motion Time Systems) include

- (A) M.T.M. (Method Time Measurement)
- (B) W.F.S. (Work Factor Systems)
- (C) B.M.T.S. (Basic Motion Time Study)
- (D) All of these

3. A company spends considerable amount on publicity to promote sales. This expenditure in break even chart is shown below the

- (A) Fixed cost line
- (B) Variable cost line
- (C) Total cost line
- (D) Sales revenue line

4. Product layout is used for

- (A) Job production
- (B) Batch production
- (C) Mass production
- (D) Any one of these

5. ABC analysis deals with

- (A) Analysis of process chart
- (B) Flow of material
- (C) Ordering schedule of job
- (D) Controlling inventory costs money

6. The disadvantage of product layout is

- (A) High initial investment for the specialized facilities
- (B) Skilled labour to operate machines
- (C) Production time is longer, requiring more goods in inventory
- (D) High cost of inspection

**7. Gantt charts are used for**

- (A) Forecasting sales
- (B) Production schedule
- (C) Scheduling and routing
- (D) Linear programming

**8. The unit cost in case of batch production is \_\_\_\_\_ as compared to jobbing production.**

- (A) Same
- (B) Low
- (C) High
- (D) None of these

**9. For a small scale industry, the fixed cost per month is Rs. 5000. The variable cost per product is Rs. 20 and sales price is Rs. 30 per piece. The break even production per month will be**

- (A) 300
- (B) 460
- (C) 500
- (D) 1000

**10. What does symbol 'D' imply in work study?**

- (A) Inspection
- (B) Transport
- (C) Delay/temporary storage
- (D) Permanent storage

SAMPLE MCQ - ME5974 - AUTOMOBILE ENGINEERING

| Sr. No | Question Text   | OPTION A               | OPTION B           | OPTION C           | OPTION D        |
|--------|---|------------------------|--------------------|--------------------|-----------------|
| 1      | Firstly _____ invented the vehicle having three wheels powered by steam engine.                     | Nicholus Joseph Cugnot | Henry Ford         | Daimler Benz       | Renault Peugeot |
| 2      | Ford motor co. was established in year ?  | 1893-1895              | 1896-1898          | 1805-1807          | 1789-1793       |
| 3      | Which of the system absorbs shocks of roads ?   | Steering               | Transmission       | Suspension         | Brake           |
| 4      | In some vehicle the bend is given only in _____ portion.  | Rear                   | Lower              | Front              | Left            |
| 5      | The driving and driven member of single plate clutch are pressed with each other with the help of ? | Connecting rod         | Piston cylinder    | Spring             | Bellows         |
| 6      | Gear box is fitted after the _____ assembly.  | Over drive             | Clutch             | Suspension         | Steering        |
| 7      | The outer tube of steering column is ?  | Dense                  | Rigid              | Hallow             | Solid           |
| 8      | _____ steering is used in light and heavy vehicles.   | Recirculating Ball     | Rack & Pinion type | Hydraulic assisted | None            |
| 9      | The wheels of vehicle will _____ if they become jam fully on applying the brake.                    | Bump                   | Blast              | Over run           | skid            |
| 10     | The -ve and +ve plates of battery are separated by ?  | Accumulators           | Mergers            | Seperators         | None            |

SAMPLE MCQ - ME5979 -MECHANICAL ESTIMATING AND COSTING

| Sr. No | Question Text   | OPTION A                           | OPTION B                       | OPTION C                | OPTION D                  |
|--------|---|------------------------------------|--------------------------------|-------------------------|---------------------------|
| 1      | Elements of costs are   | Material,Labour and Other expenses | Material,Labour and Over heads | Material and Over heads | Labour and Other expenses |
| 2      | Components of cost are Prime cost, Factory cost,Office cost and                       | Total cost                         | Selling Price                  | Office overhead         | None                      |
| 3      | Factory Rent expens is _____ overhead.  | Factory                            | Office                         | Distribution            | Selling                   |
| 4      | Volume of _____ is calculated by formulae - $\pi h^2 (3D - 2h)/6$                     | Cylinder                           | Sphere                         | Segment of Sphere       | Frustum of Cone           |
| 5      | Is not a Machine shop operation   | Shaping                            | Grinding                       | Planning                | Welding                   |
| 6      | The process by which metal is removed by means of a rotating abrasive wheel is called | Shaping                            | Grinding                       | Planning                | Welding                   |
| 7      | Drawing down, Up setting Bending are _____ operations.                                | Rolling                            | Extrusion                      | Forging                 | Machining                 |
| 8      | Cost of Electric welding does not include   | Power                              | Electrode                      | Labour                  | Oxygen Gas                |
| 9      | Method of replacment studies are  | Diminshing Balance                 | Sinking fund                   | Rate of return          | Straight line             |
| 10     | Relevant machine tool in small workshop   | Steel Almirah                      | Grinder                        | Vernier Caliper         | Transformer               |