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Roll No.

121762/31762/84532/
031846/105355

6th Sem. / Mech. Engg.

Subject : Inspection & Quality Control

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note:Objective type questions. All questions are compulsory (10x1=10)

- Q.1 Define unit.
- Q.2 List any two factors contributing in error during taking measurement.
- Q.3 Define precision.
- Q.4 Tell the least count of micrometer.
- Q.5 Define interchangeability.
- Q.6 Define standard.
- Q.7 Tell the prime use of dial indicator?
- Q.8 Define dedendum in gears.
- Q.9 Tell the function of depth gauge.

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- Q.10 List two instruments used for measuring flatness.

SECTION-B

Note:Very short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)

- Q.11 How sine bar is used for angular measurement in brief?
- Q.12 Differentiate between transition fit & clearance fit with neat sketch.
- Q.13 Explain working of clinometer.
- Q.14 Explain in-process inspection.
- Q.15 Explain straight edge method for measurement to straightness.
- Q.16 Explain procedure for alignment test on miling machine.
- Q.17 Explain indicator method for measurement of squareness.
- Q.18 Explain working principle o Vernier calliper.

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- Q.19 Describe a method to measure displacement by electromechanical transducer of any type.
- Q.20 Explain 'X' type control chart & its applications.
- Q.21 Write short note on wavelength standards.
- Q.22 Explain the effect of temperature, dirt & vibration in precision measurement.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

- Q.23 Explain the importance of TQM in industry.
- Q.24 Illustrate various sampling plans in brief.
- Q.25 Show & explain normal distribution with diagram in brief.
- Q.26 Illustrate the working of snap gauge.
- Q.27 Show & explain any alignment test on lathe.
- Q.28 Illustrate method of measurement of vibration by capacitance type electro mechanical transducer.
- Q.29 Illustrate the methodology of any two QC tools.

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- Q.30 Show & Explain 'C' type control chart & its applications.
- Q.31 Illustrate any two measurement errors with their effect on quality.
- Q.32 Differentiate between incoming and in-process inspection.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

- Q.33 Illustrate the various factors influencing the quality of manufacture.
- Q.34 Explain the working principle & constructional detail of micrometer in detail with help of neat sketch.
- Q.35 Explain the construction & working of profile projector with neat sketch in detail.
- Q.36 Illustrate the working principle & constructional details of mechanical comparator in detail with help of neat sketch.

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**6th Sem. / Mechanical Engg., GE,
Mech (Fab. Tech.)**

Subject : Automobile Engg.

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Objective type questions. All questions are compulsory (10x1=10)

- Q.1 Define chassis.
- Q.2 Give the use of nozzle.
- Q.3 Define camshaft.
- Q.4 Write two types of nozzles.
- Q.5 Give the function of Clutch.
- Q.6 Define camber.
- Q.7 Give purpose of parking brakes.
- Q.8 Define unsprung weight.
- Q.9 Write function of regulator.

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Q.10 Name the one chemicals used in lead acid battery.

SECTION-B

Note: Very short answer type questions. Attempt any ten. 10x2=20

- Q.11 Name major units of chassis.
- Q.12 Define body of an automobile.
- Q.13 Name the components of fuel system of diesel engine.
- Q.14 Write the function of propeller shaft.
- Q.15 Define Front Wheel Drive.
- Q.16 Give function of steering wheel.
- Q.17 Define Toe In.
- Q.18 Define mechanical brakes.
- Q.19 Give classification of brakes on basis of construction.
- Q.20 Describe wind up.
- Q.21 Write the types of suspension springs.

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Q.22 Define specific gravity of an electrolyte.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40

Q.23 Write the history and development of automobile.

Q.24 Write the name of Auto mobile s manufacturers (2 wheels) in india and their brand.

Q.25 Explain Gravity type Fuel Feed System.

Q.26 With neat sketch, explain MPFI system.

Q.27 Explain the function of Universal Joint.

Q.28 Give difference between power and ordinary steering system.

Q.29 Explain hydraulic brake system in detail.

Q.30 Explain antilock brake system.

Q.31 Explain briefly semi elliptic leaf spring.

Q.32 Write short note on Maintenance of batteries.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. 3x10=30

Q.33 Describe with neat sketch the working of sliding Mesh Gear Box.

Q.34 What is steering system? Write its function, requirements, and components in detail.

Q.35 Explain in details the construction of leaf spring and their types.

Q.36 Describe ignition system? Explain battery ignition system in detail.

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6th Sem. / Common to All

Subject : E.D.M.

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Objective type questions. All questions are compulsory (10x1=10)

- Q.1 Full form of NABARD is
- Q.2 Meaning of Partnership.
- Q.3 Expand MSME.
- Q.4 Full form of TBI is
- Q.5 Meaning of Market Survey.
- Q.6 WHO is father of management?
- Q.7 Theory of Motivation is given by
- Q.8 Expand EOQ.
- Q.9 Full form of JIT is

Q.10 Meaning of Trade Mark.

SECTION-B

Note: Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20

Define the following terms.

- Q.11 Line organisation.
- Q.12 Leadership style.
- Q.13 Business opportunity.
- Q.14 State Financial Corporations.
- Q.15 IPR.
- Q.16 Necessity of TQM.
- Q.17 Demand forecasting.
- Q.18 What is meaning of MRP?
- Q.19 Define HRM.
- Q.20 What is Income Tax?
- Q.21 What are objectives of NSIC?
- Q.22 Give importance of marketing.

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SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40

- Q.23 What do you understand by Entrepreneurship?
- Q.24 Discuss functions of MSME.
- Q.25 What do you understand by Commercial banks?
- Q.26 Enlist the various factors governing sales forecasting.
- Q.27 Explain briefly PPR.
- Q.28 Enlist in brief the importance of management.
- Q.29 What do you understand by democratic leadership?
- Q.30 What is the importance of Human Resource Management?
- Q.31 Explain in detail about Sales Tax.
- Q.32 Explain CRM and its need.

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SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. 3x10=30

- Q.33 What are qualities and functions of Entrepreneur?
- Q.34 Explain in detail what factors should be Considered While making a final selection at the Product to be manufactured.
- Q.35 Explain the following :
- a) Common Errors in Project report Preparation.
 - b) Objectives of Management.
- Q.36 Discuss following :
- a) Sales Promotion Techniques
 - b) Performance Appraisal Methods.

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